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Recd 10/29/02

201603

October 28, 2002
MFG Project No. 030013.4

Mr. Barney M. Chan
Hazardous Materials Specialist
Environmental Health Services
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

**Subject: UST Closure and Shallow Groundwater Investigation Report
Avis Rent A Car Facility
1 Neil Armstrong Drive
Oakland, California 94621**

Dear Mr. Chan:

Enclosed please find a copy of the subject report. MFG, Inc. prepared this report on behalf of Avis Rent A Car System, Inc. in accordance with applicable UST closure requirements and our March 14, 2002 Work Plan for Additional Groundwater Investigation for the subject Site. The scope of the work is based on our understanding of Site conditions, discussions with you, and the conditions outlined in your March 25, 2002 letter approving the Work Plan.

The report documents the completion of the UST removal and closure work, and presents the results of a shallow groundwater investigation that confirm the limited extent of MTBE impacted groundwater beneath the Site. The results also document that concentrations of MTBE beneath the site are below applicable risk-based screening levels developed by the California Regional Water Quality Control Board – San Francisco Bay Region. Based on the results of this study, we request that the case be closed and that no further work is needed to evaluate environmental conditions at the Site.

Mr. Barney Chan
Alameda County Health Care Services Agency
Environmental Health Services
October 28, 2002
Page 2 of 2

We appreciate your prompt attention to this matter. Please call if you have any questions or require additional information.

Sincerely,

MFG, INC.



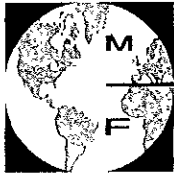
Kenneth A. Johnson, Ph.D, C.E.G.
Senior Consulting Geological Engineer




Christopher G. Spill, R.G.
Project Geologist

Enclosure

cc: Rose Pelino, Avis, w/ enclosure
 Richard Rogler, Avis w/ enclosure
 Dale Klettke, Port of Oakland, w/ enclosure
 Roger Brewer, RWQCB, w/ enclosure
 Hernan Gomez, City of Oakland Fire Services Agency




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Ross Belwa

October 28, 2002
MFG Project No. 030013.4

Mr. Barney M. Chan
Hazardous Materials Specialist
Environmental Health Services
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

**Subject: Review Schedule
 UST Closure and Shallow Groundwater Investigation Report
 Avis Rent A Car Facility
 1 Neil Armstrong Drive
 Oakland, California 94621**

Dear Mr. Chan:

At your suggestion, MFG, Inc. has prepared this letter on behalf of Avis Rent A Car System, Inc. (Avis). We have submitted our report documenting the recent UST closure and shallow groundwater investigation at the subject facility. This report documents the completion of removal of the UST systems at the site, as well as the results of the shallow groundwater investigation outlined in our March 14, 2002 work plan.

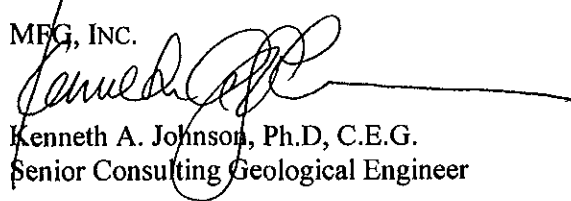
It is our understanding that Avis and the Port of Oakland (The Port) are very interested in resolving environmental matters at the subject site as soon as possible. The Port plans to redevelop the site according to its overall Terminal Expansion project. According to Mr. Mike Mathes of the Port of Oakland, they plan to begin construction at the subject site in the near future to incorporate the property into its parking facility for the airport. A delay in this construction schedule will correspond to a day for day delay in the Terminal Expansion project. For this reason we request that the priority for review of the report and resolution of environmental issues be adjusted commensurate with importance of maintaining the Port's construction schedule.

Mr. Barney Chan
Alameda County Health Care Services Agency
Environmental Health Services
October 28, 2002
Page 2 of 2

We appreciate your considering this request. Please contact me at (415) 495-7110 if you have any questions or require additional information.

Sincerely,

MFG, INC.



Kenneth A. Johnson, Ph.D, C.E.G.
Senior Consulting Geological Engineer

cc: Rose Pelino, Avis
 Lorraine Tallarico, Avis
 Richard Rogler, Avis
 Dale Klettke, Port of Oakland
 Mike Mathes, Port of Oakland

Ken.Johnson@MFG Env.com
Send him address form

**UNDERGROUND STORAGE
TANK CLOSURE AND SHALLOW
GROUNDWATER INVESTIGATION REPORT**

**FORMER AVIS RENT A CAR SYSTEM,
INC. FACILITY
1 NEIL ARMSTRONG WAY
OAKLAND INTERNATIONAL AIRPORT
OAKLAND, CALIFORNIA**

October 28, 2002

Prepared for:

AVIS RENT A CAR SYSTEM, INC.

6 Sylvan Way
Parsippany, New Jersey 07054

Prepared by:

MFG, INC.
consulting scientists and engineers

180 Howard Street, Suite 200
San Francisco, California 94105-1617
(415) 495-7110

MFG Project No. 030013.4

PROFESSIONAL CERTIFICATION

This report has been prepared by MFG, Inc. under the professional supervision of Kenneth A. Johnson. The findings, recommendations, specifications and/or professional opinions presented in this report have been prepared in accordance with generally accepted professional hydrogeologic practice, and within the scope of the project. There is no other warranty, either express or implied.



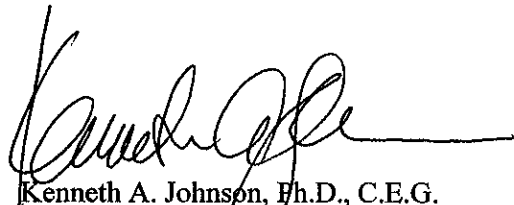

Kenneth A. Johnson, Ph.D., C.E.G.
Senior Consulting Engineering Geologist
MFG, INC.

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1.0 INTRODUCTION

MFG, Inc. has prepared this report documenting the closure of a gasoline underground storage tank (UST) system, a waste oil UST, and an additional groundwater investigation at the former Avis Rent A Car System, Inc. (Avis) facility with the address of 1 Neil Armstrong Way, Oakland, California (hereinafter "the Site"). The Site is located on the southwestern corner of Neil Armstrong Way and Airport Road. The location of the Site is shown in Figure 1. The Site occupies approximately 2.1 acres. The ground surface at the Site is at an elevation of approximately 5 feet above mean sea level (MSL) and is generally level.

1.1 Site History

The Site property was leased by Avis in July 1970, and has since been used as a car rental facility. Prior to this, the land was undeveloped. During its operation, the Site was occupied by a 1-story office building, service garage and car wash, a separate fueling and rental car cleaning area, a storage shed, a temporary storage trailer, an office trailer, and a guard shack. Much of the property is an asphalt-paved parking area for rental vehicles.

In 1989, two 10,000-gallon gasoline USTs were removed from the south-central portion of the Site. In 1989, one 10,000-gallon double-walled gasoline UST, and one 550-gallon waste oil UST and associated lines were installed at the Site (Figure 2). In May 1990, MFG installed three groundwater monitoring wells at the Site. Well MW-1 was located on the south side of the former UST excavation. Wells MW-2 and MW-3 were located along the southwestern property boundary (Figure 2).

In 1990, MFG performed a soil gas investigation at 12 locations near MW-1. Seven soil gas samples were collected in the immediate vicinity of MW-1; other points were located outside the limits of the former tank excavation and along the western property boundary. Soil gas samples were analyzed for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX). Significant levels of TPH and BTEX were detected in one soil gas sample collected from near MW-1. Other soil gas samples contained very low concentrations of TPH and BTEX. MFG concluded that soil contamination was localized in the vicinity of MW-1.

Based on the soil gas results, approximately 50 cubic yards of soil were removed from an area located southeast of, and adjacent to, the former USTs. Excavation required the abandonment of MW-1, which was replaced by MW-1A. Groundwater samples collected in March 1991 from wells MW-2 and MW-3, and in April 1991 from MW-1A contained no detectable concentrations of TPH as gasoline (TPHg), BTEX, or polynuclear aromatic hydrocarbons (PNAs).

MFG continued to monitor groundwater at the Site on a quarterly basis from July 1991 to January 1994. In that period no detectable concentrations of TPHg, BTEX, or PNAs were detected in wells MW-2 and MW-3. In the final groundwater monitoring report, MFG indicated that the target gasoline constituents had not been detected in groundwater samples collected from MW-1A since February 1993. MFG recommended that the Site be certified for closure from the Alameda County Health Care Services Agency, Department of Environmental Health, Hazardous Materials Division (ACHCSA). A Remedial Action Completion Certification was issued by ACHCSA on August 18, 1994. The three monitoring wells were destroyed in accordance with existing regulations in May 1995.

During the period that MFG monitored groundwater at the Site, groundwater flow direction was generally to the east-southeast at a horizontal gradient of approximately 0.003.

A Phase II investigation was undertaken by Avis in October 2000 to assess environmental conditions at the Site in anticipation of terminating its lease for the property. The scope, methods and results of the Phase II investigation are documented in MFG's February 15, 2001, letter report reference. The primary elements of the investigation included collection of seven shallow groundwater grab samples for chemical analysis. Low concentrations of volatile organic compounds (VOCs) were detected in some samples of shallow groundwater. Methyl tertiary butyl ether (MTBE) was detected at concentrations up to 1,100 micrograms per liter ($\mu\text{g/L}$) in samples collected downgradient of the current and former USTs.

The Phase II investigation letter report was prepared and submitted to the City of Oakland Fire Service Agency with a recommendation that no further work needed to be performed. This recommendation was based on the generally poor groundwater quality in the vicinity (specific conductance of up to 30,000 micromhos per centimeter) and the fact that groundwater concentrations detected in the study were below applicable City of Oakland and the California Regional Water Quality Control Board, San Francisco Bay Region, (RWQCB), risk-based screening levels.

Because MTBE was detected in the Phase II investigation but was not included as an analyte in the earlier groundwater monitoring analyses performed following the 1989 removal of the original

gasoline USTs at the Site, it is not known whether the source of the MTBE was from the initial release (pre-1989) at the Site or from a subsequent release from the existing gasoline UST. Subsequently, the City of Oakland referred the case back to ACHCSA for consideration of reopening a UST investigation at the Site.

ACHCSA's January 18, 2002, letter requested a work plan for additional investigation to assess the extent of MTBE in shallow groundwater. In its February 26, 2002, letter, ACHCSA further suggested that the requested work plan include consideration of potential preferential pathways for MTBE migration posed by the presence of storm drain utility trench backfill. In addition to documenting the closure and removal of the underground gasoline and waste oil storage tank systems, and removal of an above-ground storage tank (AST) and a hydraulic lift cylinder, this report summarizes the findings of the trench backfill and shallow groundwater investigations.

1.2 Scope of Work

1.2.1 UST Closure and Facility Decommissioning

During the UST closure and facility decommissioning, MFG provided observation and sampling services on behalf of Avis. Avis contracted with American Construction and Environmental Services, Inc. of Brentwood, California, to perform the UST system removals and facility decommissioning activities, including removal of the virgin oil AST and hydraulic lift cylinder. MFG conducted confirmation sampling on July 16, 17 and 19, 2002 and additional confirmation sampling on September 23, 2002, following additional over-excavation of soil from the dispenser and pipeline areas. This report compiles documentation supporting all of the above activities, and has been prepared on behalf of Avis.

1.2.2 Groundwater Investigation

MFG advanced seven soil borings using direct-push techniques and two soil borings using hand auger methods for the purpose of collecting shallow groundwater samples for chemical analysis and assessing the possible presence of shallow groundwater in utility trench backfill material. MFG collected groundwater samples from the approximate locations shown on Figure 2. Sample locations B-8 through B-14 were designed to collect groundwater samples to provide additional groundwater quality data to assess the extent of shallow groundwater impacted by MTBE throughout the Site. These sample

locations were selected to supplement locations sampled during our October 2000 shallow groundwater investigation (B-1 through B-7, MFG, 2001).

Hand auger techniques were used for borings within utility backfill to assess the potential for preferential pathways of groundwater migration. All sample locations were advanced using a hand auger, to eliminate the potential for damage to the existing storm drains. Field methods and results are discussed in Section 3.0.

The remainder of this report is organized as follows. Section 2.0 provides information regarding the UST decommissioning and removal activities and stockpile characterization soil sampling analysis and disposal. Section 3.0 provides information regarding groundwater quality, soil borings and shallow groundwater sampling and analysis. Section 4.0 contains a summary of findings and conclusions. References cited in the text of this report are listed in Section 5.0.

2.0 UST CLOSURE AND FACILITY DECOMMISSIONING ACTIVITIES

2.1 Summary of Removal Activities

American Construction performed the UST closure and facility decommissioning activities, from July 15 to July 19, 2002. Prior to the facility demolition and UST/AST removal activities, American Construction obtained relevant permits from the Oakland Fire Department (OFD) and submitted the required notifications to the Bay Area Air Quality Management District (BAAQMD). Copies of permits, permit applications and notifications are provided in Appendix A.

2.1.1 Equipment Removal and Building Demolition

From July 15 to July 19, 2002, building and equipment improvements were removed by American Construction in accordance with their scope of work. Prior to demolition, the buildings were inspected by IHI Environmental of Emeryville, California, for the presence of asbestos containing building material (ACBM), and for evidence of petroleum hydrocarbon or chemical spills and leaks. Certain areas of the existing structure were identified as having ACBM (IHI, 2001). Abatement of the ACBM was performed by a certified asbestos contractor under the direction of American Construction. We understand that asbestos abatement was performed prior to demolition of the Site buildings. No evidence of building materials with significant chemical staining were observed prior to demolition. The Avis facility buildings, hydraulic lift area and site canopy were demolished by American Construction on July 17, 2002.

2.1.2 Removal of Liquids from the USTs

On July 16, 2002, the liquids remaining in the USTs were removed by Clearwater, Inc. of Union City, California. Each UST was triple-rinsed with water by American Construction. The rinse water was removed by Clearwater, Inc. and transported to Ecology Control Industries' disposal facility located in Richmond, California. A copy of the Bill of Lading for the removed liquids is included in Appendix B.

2.1.3 Gasoline UST

On July 15, 2002, American Construction prepared a 12,000-gallon unleaded gasoline UST for removal by excavating the gravel fill from around the top and sides of the UST and disconnecting the piping from the UST to the dispensers. During removal preparation activities, the gasoline UST excavation was purged of groundwater to prevent the tank from floating on the water surface and rolling over. The groundwater was temporarily stored on the site in a Baker Tank prior to off-site disposal at a permitted facility. Approximately 1,000 gallons of groundwater was removed. On July 16, 2002, the UST was removed by lifting the UST from the excavation using straps attached to an excavator bucket. The former location of the UST is shown in Figure 2. The UST was constructed of double-walled fiberglass and equipped with interstitial electronic leak sensors and automatic product level gauging systems. The UST was also equipped with overfill and spill prevention equipment.

Upon removal, the UST was blocked and observed for evidence of holes or corrosion by Mr. Keith Matthews of the OFD and by MFG personnel. The UST was in good condition and no evidence of cracking or puncturing was observed. At the conclusion of removal activities, the UST excavation measured approximately 42 feet by 20 feet. The total depth of the UST excavation was approximately 13 feet below ground level (bgl). Groundwater was observed at the base of the excavation. No staining, sheen or other evidence indicative of petroleum impact to the soil was observed within the UST excavation or stockpiled tank backfill. Details summarizing confirmation sampling activities in this area are presented in Section 2.2. The OFD inspection record for July 16, 2002 is included in Appendix C. Photographs relevant to UST removal activities are included in Appendix D. Soil excavated during removal of the UST was stockpiled on the Site and identified as stockpile SS-1. Details summarizing disposal characterization of the soil stockpile are presented in Section 2.3.

On July 16, 2002, immediately following excavation and inspection, the empty gasoline UST was transported by Ecology Control Industries to its disposal facility in Richmond, California. A copy of the hazardous waste manifest and certificate of destruction for the empty UST is included in Appendix B.

2.1.4 UST Dispensers and Piping

The UST system included three gasoline dispensers on two fuel islands and approximately 60 feet of double-walled fiberglass piping. Each dispenser had a spill pan and the associated double-walled fiberglass piping was equipped with electronic leak sensors.

After removal of the UST from the excavation, the fuel islands, dispensers and associated piping were removed. A trench was excavated to expose the piping for inspection by Mr. Keith Matthews of the OFD and MFG personnel. The piping was inspected for evidence of corrosion, leakage or damage. The piping appeared to be intact and in good condition. After inspection, the piping and trench material was removed to a depth of 3 feet bgl. The soil underlying the northern dispenser (sample location DP-3) and beneath the piping (sample locations PL-1 and PL-2) exhibited petroleum hydrocarbon odors and slight staining. These three locations were subsequently over-excavated on July 19 and September 23, 2002. A summary of over-excavation activities and confirmation sampling at these locations is presented in Sections 2.1.9 and 2.2, respectively.

The dispensers and associated piping were removed from the Site and transported by American Construction to the Avis' facility at North First Street, San Jose, California.

2.1.5 Waste Oil UST

One 550-gallon waste oil UST was removed from the Site on July 16, 2002. The location of the waste oil UST is shown in Figure 2. Upon removal, the waste oil UST was observed for evidence of holes or corrosion by Mr. Keith Matthews of the OFD and by MFG personnel. The UST was in good condition and no evidence of cracking or puncturing was observed. At the conclusion of removal activities, the UST excavation measured approximately 11 feet by 10 feet. The total depth of the waste oil UST excavation was approximately 9 feet bgl. Groundwater was observed at the base of the excavation. No staining, sheen or other evidence indicative of petroleum impact to the soil were observed within the waste oil UST excavation or stockpiled tank backfill. Details summarizing confirmation sampling activities in this area are presented in Section 2.2. The OFD inspection record for July 16, 2002 is included in Appendix C. Photographs relevant to UST removal activities are included in Appendix D. Soil excavated during removal of the UST was stockpiled on the Site and identified as stockpile SS-2. Details summarizing disposal characterization of the soil stockpile are presented in Section 2.3.

On July 16, 2002, immediately following excavation and inspection, the empty waste oil UST was transported by Ecology Control Industries to its disposal facility in Richmond, California. A copy of the hazardous waste manifest and certificate of destruction for the empty UST is included in Appendix B.

2.1.6 Virgin Oil AST

One 550-gallon virgin oil AST was located on a concrete pad along the southern wall of the car wash facility. The AST did not have associated underground piping or a dispenser. No leaks or spills were reported to be associated with the operation of the AST. The area around the former location of the AST was visually inspected for staining. Minor staining on the surface of the concrete pad was visible in the area surrounding the former virgin oil AST. The concrete pad for the former AST was subsequently removed from the Site during demolition of the car wash facility.

2.1.7 Hydraulic Lift Cylinder

A hydraulic lift cylinder was located in the southern service bay of the facility building. The approximate location of the hydraulic lift cylinder is shown in Figure 2. The hydraulic lift cylinder was removed on July 19, 2002 by lifting the cylinder out of the subsurface with the excavator. Upon removal, the cylinder was observed for evidence of holes, cracks, corrosion, or staining by MFG personnel. The cylinder appeared to be in good condition. At the conclusion of removal activity, the cylinder excavation measured approximately 2 foot wide with a depth of approximately 8 feet bgl. Groundwater was not observed at the base of the excavation. No staining, sheen or other evidence indicative of hydraulic fluid impact to the soil was observed within the hydraulic cylinder excavation. Details summarizing confirmation sampling activities in this area are presented in Section 2.2.

2.1.8 Oil/Water Separator at the Car Wash Facility

American Construction removed and demolished the floor drains and the belowground, concrete oil/water separator. MFG did not observe the removal of the oil/water separator.

2.1.9 Over-Excavation of Soil from Dispenser and Piping Area and Hydraulic Lift Cylinder

On July 19, 2002, additional soil excavation was conducted along the piping for the gasoline UST to remove soil impacted with petroleum hydrocarbon constituents (Section 2.2). The area of excavation was based upon organic vapor field readings of soil, the presence of slight staining and confirmation soil sampling results from sample locations PL-1 and PL-2 collected on July 16, 2002. Impacted soil was over-excavated to a depth of approximately 4 feet bgl at sample location PL-1 and approximately 8 feet bgl at sample location PL-2. The over-excavation activities were conducted by American Construction under the direction of MFG. At the conclusion of over-excavation activities, soil from the sidewalls of the excavation was field screened for the presence of organic vapors and two additional confirmation soil samples were collected for chemical analysis to verify the removal of impacted soil (Section 2.2). No field evidence of impacted soil was observed in the soil remaining in this area.

On September 23, 2002, additional soil excavation was conducted along the piping for the gasoline UST to remove soil impacted with low concentrations of MTBE (Section 2.2). The area of excavation was based upon confirmation soil sampling results from sample location PL-1 (3.5 - 4.0) collected on July 19, 2002. Impacted soil was over-excavated to a depth of approximately 7 feet bgl by American Construction under the direction of MFG. At the conclusion of over-excavation activities, soil from the sidewalls of the excavation was field screened for the presence of organic vapors and one additional confirmation soil sample was collected for chemical analysis to verify the removal of impacted soil (Section 2.2). No field evidence of impacted soil was observed in the soil remaining in this area.

On September 23, 2002, additional soil excavation was also conducted in the area of the northern dispenser associated with the gasoline UST to remove soil impacted with low concentrations of MTBE and in the area of the hydraulic lift cylinder to remove soil impacted with concentrations of TEPH as hydraulic fluid (Section 2.2). The area of excavation at the northern dispenser was based on confirmation soil sampling results from sample location DP-3 collected on July 19, 2002. The area of excavation near the hydraulic lift cylinder was based on confirmation soil sampling results from sample location HL-1 collected on July 19, 2002. Impacted soil was over-excavated to depths of approximately 8 feet bgl at each location by American Construction under the direction of MFG. At the conclusion of over-excavation activities, soil from the sidewalls of the excavation was field screened for the presence of organic vapors and one additional confirmation soil sample was collected at each location for chemical analysis to verify the removal of impacted soil (Section 2.2). No field evidence of impacted soil was observed in the soil remaining in this area.

The over-excavation areas for July 19 and September 23, 2002 are shown on Figure 3. The excavated soil from the dispenser and piping area and the hydraulic lift cylinder was placed in a separate soil stockpile, identified as stockpile SS-3, and sampled for disposal characterization and profiling (Section 2.3).

2.1.10 Backfill and Site Restoration

Following completion of excavation and confirmation sampling activities, the excavations for the two USTs, the dispenser and piping area, and the hydraulic lift cylinder were backfilled. Backfill material came from two sources: soil stockpiles SS-1 and SS-2, and imported clean fill from an off-site source. Based on the composite sample analysis of soil stockpiles SS-1 and SS-2, approval to use this material as excavation backfill was given by Mr. Barney Chan of ACHSA in a September 13, 2002, telephone conversation with Mr. Kenneth Johnson of MFG. Analytical methods and results for the soil stockpiles are discussed in Section 2.3. Imported clean fill was used to complete excavation backfilling to within six inches of grade.

2.2 Confirmation Sampling and Analysis

2.2.1 Selection of Sampling Locations and Analytical Parameters

The sampling locations and analytical parameters for the confirmation soil and groundwater samples were selected at the direction of the OFD inspector, and in general accordance with the Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Storage Tanks Sites (RWQCB, 1990).

2.2.2 Confirmation Soil Sampling

A total of 17 confirmation soil samples were collected by MFG during excavation activities on July 16, July 19 and September 23, 2002. During the initial excavation activities on July 16 and 19, 2002, the following soil samples were collected: four from the excavation sidewalls for the gasoline UST; two from the excavation for the waste oil UST; five from the dispenser and piping area; and one from the hydraulic lift cylinder area. During subsequent over-excavation activities on July 19 and September 23, 2002, the following additional soil samples were collected: four from the dispenser and piping area; and

one from the hydraulic lift cylinder area. The depth interval for each confirmation soil sample is presented in Table 1. The locations of confirmation soil samples are shown in Figure 3.

Confirmation soil sampling from the UST excavations and piping area was conducted by MFG on July 16, 2002, under the direction of Mr. Keith Matthews of the OFD. Four confirmation soil samples (identified as UST 1-East, UST 1-North, UST 1-South and UST 1-West) were collected from the sidewalls of the gasoline UST excavation (one from each side) at a depth of approximately 11 feet bgl, immediately above the soil-groundwater interface. Two confirmation soil samples (identified as WO-1-Bottom and WO-1-East) were collected from the waste oil UST excavation. As directed by the OFD inspector, sample WO-1-Bottom was collected beneath the former location of the UST at a depth of approximately 10 feet bgl, approximately 1.5 feet below the soil-groundwater interface. Sample WO-1-East was collected from the fill port sidewall of the UST excavation at a depth of approximately 8.5 feet bgl, immediately above the soil-groundwater interface. Two confirmation soil samples (identified as PL-1 and PL-2) were collected along the piping leading to the dispensers at 20-foot horizontal intervals. Samples PL-1 and PL-2 were collected at depths of approximately 3 feet bgl.

A second round of confirmation soil sampling from the dispenser and piping area was conducted by MFG on July 19, 2002. Three confirmation soil samples (identified as DP-1, DP-2 and DP-3) were collected beneath the dispensers at depths of approximately 2 to 4 feet bgl (Table 1). In addition, one confirmation soil sample (identified as HL-1) was collected beneath the hydraulic lift cylinder at a depth of 8.5 feet bgl.

On July 19 and September 23, 2002, additional excavation was conducted at the dispenser and piping area and at the hydraulic lift cylinder (Section 2.1.9). Following over-excavation activities, the following additional confirmation soil samples were collected: three samples, identified as PL-1 (3.5 to 4.0), PL-1 (6.5 to 7.0) and PL-2 (7.5 to 8.0), from the dispenser and piping area at depths of approximately 4, 7 and 8 feet bgl, respectively; and one sample, identified as HL-1 (7.5 to 8.0), from the hydraulic lift cylinder area at a depth of approximately 8 feet bgl.

In order to collect soil samples from excavations at depths greater than 4 feet bgl, American Construction removed soil from the desired sampling locations using the excavator. Soil samples from excavation at depths less than 4 feet were manually collected by MFG personnel. Samples were collected at each location by removing approximately 6 inches of soil from the soil surface and driving En-core samplers and/or clean stainless steel sample liners into the newly exposed soil. Following sample collection, MFG personnel sealed each En-core sampler with the provided cap. The ends of each stainless

steel liner were covered with Teflon[®] sheets, capped with polyethylene lids and sealed with duct tape. All samples were labeled, placed in individual polyethylene Ziploc[®] bags and immediately packed in an insulated, ice-cooled chest. Chain-of-custody records were completed for the samples and accompanied the samples until receipt by the laboratory. Copies of the chain-of-custody records are included in Appendix E.

Soil from selected sampling locations was screened in the field by MFG for the presence of organic vapors using a ThermoEnvironmental Instruments Model 580B portable photoionization detector (PID) with a 10.6 eV lamp. The PID was calibrated with a 100 parts per million by volume (ppmv) isobutylene gas standard at the beginning of each day of use at the Site. The response factor of the PID was adjusted to 1.0 so that the instrument would read in ppmv as isobutylene. To prepare the soil for headspace measurement, the soil was sealed in a polyethylene Ziploc[®] bag with some air space, broken up within the bag, and agitated. The headspace reading was taken after approximately 10 minutes by agitating the soil in the bag again and then inserting the PID probe into the air space within the bag. The maximum PID reading for each soil sample is presented in Table 1.

2.2.3 Confirmation Groundwater Sampling

Following UST removal, MFG personnel collected water samples from each excavation under the direction of the OFD inspector on July 16 and 17, 2002. As mentioned in Section 2.1.3, the gasoline UST excavation was purged of standing water during removal preparation activities on July 15, 2002. The gasoline and waste oil UST excavations were also purged of standing water on July 16, 2002 prior to UST removal. The excavation water was temporarily stored at the Site in a Baker Tank prior to off-site disposal at a permitted facility (Section 2.3.4).

An additional groundwater sample was collected from the waste oil UST excavation on August 7, 2002 because the analytical laboratory experienced poor surrogate recovery during polychlorinated biphenyls (PCBs) analysis of the groundwater sample from July 17, 2002. Prior to sample collection, the waste oil UST excavation was purged of standing water. The excavation water was temporarily stored at the Site in a Baker Tank prior to off-site disposal at a permitted facility (Section 2.3.4).

Groundwater samples were collected from each excavation using a disposable Teflon[®] bailer. The bailer was lowered into the excavation using nylon string. The samples were decanted from the bailer into containers provided by the laboratory. The samples were immediately placed in an insulated,

ice-cooled chest. Chain-of-custody records were completed for the samples and accompanied the samples until receipt by the laboratory. Copies of the chain-of-custody records are included in Appendix F.

2.2.4 Analytical Methods and Results

The confirmation soil and groundwater samples collected at the Site on July 16, July 17, July 19, August 7 and September 23, 2002, were submitted for chemical analysis to Curtis and Tompkins, Inc. of Berkeley, California. The confirmation samples were analyzed for various parameters depending on the sample location and source area. The confirmation samples were analyzed using one or more of the following methods:

- Total purgeable petroleum hydrocarbons (TPPH) as gasoline using EPA Method 8015M;
- Total extractable petroleum hydrocarbons (TEPH) as diesel, motor oil and/or hydraulic oil using EPA Method 8015M;
- Oil & Grease using EPA Method 1664A;
- Volatile organic compounds (VOCs) using EPA Method 8260B;
- Fuel oxygenates including methyl tertiary-butyl ether (MTBE), tertiary-butyl alcohol (TBA), tertiary amyl methyl ether (TAME), di-isopropyl ether (DIPE) and ethyl tertiary-butyl ether (ETBE) using EPA Method 8260B;
- Semi-volatile organic compounds (SVOCs) using EPA Method 8270C;
- Polychlorinated biphenyls (PCB) using EPA Method 8082; and
- Total lead, cadmium, chromium, nickel and zinc using EPA Method 6010B.

The analytical results for the confirmation soil samples are summarized in Tables 1 and 2, and copies of the laboratory reports and chain-of-custody records are included in Appendix E. The analytical results for the confirmation groundwater samples are summarized in Table 3, and copies of the laboratory reports and chain-of-custody records are included in Appendix F. The results are discussed in the following sections.

2.2.4.1 Gasoline UST

Confirmation soil sample results related to the gasoline UST excavation indicate that all target analytes were below the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) screening levels for surface and subsurface soils where groundwater is not a current or potential source of drinking water and where land use is designated as commercial/industrial (RWQCB, 2001). TPH as gasoline, VOCs and fuel oxygenates were not detected at or above the respective laboratory reporting limits in any confirmation soil samples from the sidewalls of the UST excavation, except for MTBE. MTBE was detected in all four confirmation soil samples at concentrations ranging from 0.013 to 0.078 milligrams per kilogram (mg/kg). The laboratory results, laboratory reporting limits, and RWQCB screening levels are summarized in Table 1.

Confirmation groundwater sample results related to the gasoline UST indicated that all target analytes, except TPH as gasoline and total xylenes, were below the RWQCB screening levels for groundwater (less than 3 meters bgl and greater than 3 meters bgl) where groundwater is not a current or potential source of drinking water and land use is industrial commercial (RWQCB, 2001). TPH as gasoline was detected at a concentration of 510 micrograms per liter ($\mu\text{g/L}$), slightly above the RWQCB screening level of 500 $\mu\text{g/L}$. Total xylenes was detected at a concentration of 72 $\mu\text{g/L}$, exceeding the RWQCB screening level of 13 $\mu\text{g/L}$. Concentrations of benzene, toluene, ethylbenzene, MTBE, and TBA were detected in the confirmation groundwater sample; however, these concentrations were below the RWQCB screening levels. No other analytes were detected at or above their respective laboratory reporting limits. The laboratory results, laboratory reporting limits and the RWQCB screening levels are summarized in Table 3.

2.2.4.2 Dispenser and Piping Area

Confirmation soil sample results at the conclusion of over-excavation activities at the dispenser and piping area indicate that all target analytes were below the RWQCB screening levels for surface and subsurface soils where groundwater is not a current or potential source of drinking water and where land use is designated as commercial/industrial (RWQCB, 2001).

Analytical results from initial confirmation soil sample collected beneath the northern dispenser (sample location DP-3) and beneath piping (sample locations PL-1 and PL-2) indicated concentrations of TPH as gasoline, VOCs and fuel oxygenates above the RWQCB screening levels (Table 1); however,

the soil from these sampling locations was subsequently excavated and disposed off-site at a permitted facility (Section 2.3.3). The laboratory results, laboratory reporting limits, and RWQCB screening levels are summarized in Table 1.

2.2.4.3 Waste Oil UST

Confirmation soil sample results related to the waste oil UST excavation indicate that all target analytes were below the RWQCB screening levels for surface and subsurface soils where groundwater is not a current or potential source of drinking water and where land use is designated as commercial/industrial (RWQCB, 2001). VOCs, SVOCs, and PCBs were not detected at or above the respective laboratory reporting limits in either of the confirmation soil samples. Low concentrations of TEPH as diesel (27 mg/kg) and motor oil (36 mg/kg) were detected in sample WO-1-East. Low concentrations of metals were also detected in both confirmation soil samples. All concentrations of metals were in the range judged to be naturally occurring. The laboratory results, laboratory reporting limits, and RWQCB screening levels are summarized in Tables 1 and 2.

Confirmation groundwater sample results related to the waste oil UST indicated that all target analytes were below the RWQCB screening levels for groundwater (less than 3 meters bgl and greater than 3 meters bgl) where groundwater is not current or potential source of drinking and land use is industrial/commercial (RWQCB, 2001). TEPH as diesel and motor oil, oil & grease, VOCs, MTBE, SVOCs, PCBs and metals were not detected at or above the respective laboratory reporting limits. The laboratory results, laboratory reporting limits, and RWQCB screening levels are summarized in Table 3.

2.2.4.4 Hydraulic Lift Cylinder

Confirmation soil sample results at the conclusion of over-excavation activities at the hydraulic lift cylinder area indicate that all target analytes were below the RWQCB screening levels for surface and subsurface soils where groundwater is not a current or potential source of drinking water and where land use is designated as commercial/industrial (RWQCB, 2001). TEPH as hydraulic fluid was detected at concentrations of 3,600 mg/kg in the initial confirmation soil sample (sample HL-1) collected from beneath the hydraulic lift cylinder; however, on September 23, 2002, the soil from this sampling location was subsequently excavated and disposed off-site (Section 2.3.3). At the conclusion of over-excavation activities, an additional confirmation soil sample was collected at a depth of approximately 8 feet bgl.

TEPH as hydraulic fluid was not detected in the final confirmation sample at or above the respective laboratory reporting limit. The laboratory results, laboratory reporting limits, and RWQCB screening levels are summarized in Table 1. It is noted that the initial confirmation soil sample collected on July 19, 2002 and labeled HL-1, was collected at a depth of 8.5 feet below the level of the concrete floor of the building's service bay, and the confirmation soil sample collected on September 23, 2002 was collected at approximately 8 feet below the surrounding grade, after demolition and removal of the service bay's concrete floor and baserock.

2.3 Characterization of Soil Stockpiles and Disposal of Wastes

2.3.1 Field Methods

The soil stockpiles for the gasoline UST, waste oil UST and dispenser/piping excavations were sampled by MFG on July 17 and 19, 2002. Two 4-point composite soil samples were collected from the gasoline UST. One 4-point composite soil sample was collected from the waste oil UST stockpile and one 4-point composite soil sample was collected from the dispenser/piping excavation stockpile.

To collect the samples, the top 12 to 18 inches of soil from randomly selected locations of the stockpile were removed and a clean stainless steel sample liner was driven into the newly exposed soil at each location. Following sample collection, MFG personnel covered the ends of each stainless steel liner with Teflon[®] sheets, capped the ends with polyethylene lids and sealed the polyethylene lids onto the tubes with duct tape. The samples were labeled and immediately placed in an insulated, ice-cooled chest for transport to the laboratory. A chain-of-custody record was completed for the samples and accompanied the samples until receipt by the laboratory. A copy of the chain-of-custody record is included in Appendix G. Samples were composited by the laboratory from four samples into one sample for chemical analysis, resulting in two composite samples from the gasoline UST stockpile area (SS-1 A,B,C,D and SS-1 E,F,G,H) one composite sample from the waste oil UST stockpile area (SS-2 A,B,C,D) and one composite sample from the dispenser/piping stockpile (SS-3 A,B,C,D).

2.3.2 Analytical Methods and Results

The soil samples collected from each stockpile by MFG on July 17 and 19, 2002, were submitted for chemical analysis to Curtis and Tompkins of Berkeley, California. Soil samples were analyzed for

various parameters depending on the sample location and source area. In general, selected soil samples were analyzed using one of more of the following methods:

- TPPH as gasoline using EPA Method 8015M;
- TEPH as diesel or motor oil using EPA Method 8015M;
- VOCs using EPA Method 8260B;
- Fuel oxygenates including MTBE, TBA, TAME, DIPE, and ETBE, using EPA Method 8260B;
- SVOCs using EPA Method 8270C;
- PCBs using EPA Method 8082; and
- Total lead, cadmium, chromium, nickel and zinc using EPA Method 6010B.

The analytical results for TPPH, TEPH, VOCs and fuel oxygenates are summarized in Table 1. The analytical results for SVOCs, PCBs and metals are summarized in Table 2. Copies of the laboratory reports and chain-of-custody records are included in Appendix G.

2.3.2.1 Gasoline UST Stockpile

TPPH as gasoline was detected in stockpile sample SS-1 A, B, C, D at a concentration of 5.9 mg/kg. TPPH as gasoline was not detected in the stockpile sample SS-1 E, F, G, H at or above the laboratory reporting limit. VOCs and fuel oxygenates, except for MTBE, were not detected in the UST stockpile composite samples at or above the respective laboratory reporting limits. MTBE was detected in both composite samples at low concentrations of 0.0099 and 0.011 mg/kg, respectively. The laboratory results, laboratory reporting limits, and RWQCB screening levels are summarized in Table 1.

2.3.2.2 Waste Oil UST Stockpile

TEPH was reported in the diesel and motor oil range at concentrations of 78 and 87 mg/kg, respectively. VOCs, SVOCs, PCBs and Metals were not detected at or above the respective laboratory reporting limits in the waste oil UST composite sample. The laboratory results, laboratory reporting limits, and RWQCB screening levels are summarized in Tables 1 and 2.

2.3.2.3 Dispenser/Piping Stockpile

TPPH as gasoline was detected at a concentration of 89 mg/kg in the composite sample. Ethylbenzene and total xylenes were detected at concentrations of 0.84 and 1.37 mg/kg, respectively. Other VOCs, fuel oxygenates and metals were not detected at or above the respective laboratory reporting limits. The laboratory results, laboratory reporting limits, and RWQCB screening levels are summarized in Tables 1 and 2.

2.3.3 Disposal of Excavated Soil

We understand that on October 25, 2002, the soil stockpile labeled SS-3 was removed from the Site by Denbeste Transportation Inc. of Windsor, California and transported to the Forward Landfill in Manteca, California for disposal.

2.3.4 Disposal of Excavation Purge Water

We understand that the water purged from the UST excavations was removed from the site by Clearwater Inc. Copies of completed Non-Hazardous Waste Manifests can be provided, if desired, after processing is complete.

3.0 SHALLOW GROUNDWATER QUALITY INVESTIGATION

MFG performed a shallow groundwater investigation in accordance with our March 14, 2002 Work Plan and the conditions identified in the March 25, 2002 approval letter from ACHCSA. This investigation was intended to supplement the results of an earlier shallow groundwater investigation summarized in our February 15, 2001 Phase II Investigation Report (MFG, 2001). The goals of the current shallow groundwater investigation were (1) to collect groundwater samples (if groundwater is present) from within utility backfill at the Site to assess the potential for permeable backfill to act as a potential preferential pathway for migration of MTBE impacted groundwater, and (2) to collect additional groundwater quality data to further assess the extent of groundwater impacted by MTBE beneath the Site.

To accomplish these goals MFG advanced hand auger borings or excavations at three locations (B-8, B-9, and B-11) to assess the possible presence of groundwater in storm sewer utility backfill material. Additionally MFG subcontractors advanced 7 direct-push soil borings (B-8 through B-14) for the purpose of collecting shallow grab groundwater samples for chemical analysis. The locations of soil borings B-8 through B-14 are shown in Figure 2. The sample locations were selected based on the results of MFG's earlier investigation (MFG, 2001) and with consideration of the historical horizontal hydraulic gradient directions. An illustration of the historical groundwater flow directions is presented in the rose diagram shown in Figure 4. This rose diagram was developed using the potentiometric data and gradient directions compiled over 17 quarterly monitoring events between 1990 and 1994.

Prior to mobilizing for field work, MFG visited the Site to mark the proposed boring locations; contacted Underground Service Alert (USA); and updated the Site-specific health and safety plan (HASP) to govern the work conducted. Permits were obtained from the Alameda County Public Works Agency. A private utility locator was used to clear individual boring locations for on-site utilities that were beyond the scope of the USA notification.

3.1 Field Methods

MFG advanced soil borings using hand auger and direct-push techniques for the purpose of evaluating the presence of shallow groundwater in utility trench backfill and collecting groundwater samples for chemical analysis.

On July 16, 2002 seven soil borings, B-8 through B-14 were advanced by Precision Sampling, Inc. of Richmond, California using an Enviro-core drill/direct-push rig. The borings were advanced using a 3.5-inch outer diameter (o.d.) outer drive casing and Enviro-core soil sampler. Below a depth of 4 feet bgl, the sampler was driven a total of 3 feet during each sampling run, and each boring was continuously cored to maximum depths of approximately 12 feet bgl. The soil cores were collected in 2-inch o.d. plastic liners fitted within the samplers. Soil samples from selected intervals from each boring were bag sampled and preserved for vapor analysis.

An MFG field engineer/scientist was present at the Site to observe the drilling operations, log the borings, and assist in obtaining groundwater samples. The borings were logged in general accordance with the Unified Soil Classification System. The downhole drilling equipment was washed in a non-ionic detergent, rinsed with tap water and then distilled water, before reuse in another boring. Wash water and soil cuttings from the drilling operation were contained in the Bake Tank used for excavation purgewater and temporarily stored at the site for later disposal.

Soil quality was screened with a photoionization detector to assess the presence of volatile organic compounds in the soil, no soil samples were collected for chemical analysis. Samples for screening were selected based on a visual examination of the cuttings or core, or if no distinguishing features were observed, at every 4-feet. Headspace measurements of soil for organic vapors were attempted in the field using a portable photoionization detector (PID - Thermo-Environmental Instruments Model 580B), calibrated against an isobutylene standard. The PID readings for each soil boring are presented in the boring logs (Appendix H).

One grab groundwater sample was collected from each boring. A slotted PVC screen (temporary well) was installed in each boring, and water samples were obtained using a small diameter Teflon[®] bailer with a check valve. Following collection of the grab groundwater samples at each location, the temporary casing was removed and the boring was backfilled with a cement-bentonite slurry.

Groundwater sampling was performed using the appropriate MFG standard protocols for obtaining samples for chemical analysis. All samples will be transported under chain-of-custody procedures to an analytical laboratory certified by the California Department of Health Services.

On July 17, 2002 hand auger borings were advanced to assess the possible presence of shallow groundwater in storm sewer utility trenches. The work plan outlined four locations where utility trench backfill was to be assessed (locations B-8, B-9, B10, and B-11). No hand auger hole was advanced at the

location of B-9 because excavations made during the course of the UST removal intersected the storm sewer backfill near the location of location B-9. No groundwater intersected the backfill at this location. At the location of B-8, the hand auger boring was advanced along the alignment identified on figures provided by the Port of Oakland. No backfill material was encountered in this boring, however the boring was advanced to a depth of 7 feet and no water was encountered in this hole. Based on the depth of the storm sewer line near location B-9, the hand auger at location B-8 was probably advanced below the depth of the actual backfill along this part of the storm sewer, and the absence of water in the hole indicates that storm sewer backfill in this area is also dry. At location B-11, trench backfill was encountered to a depth of approximately 6.5 feet, beneath which sandy clay was observed. No water was encountered in this boring. Location B-11 is at the downstream corner of the Site's storm drain network and consequently the storm drain has its lowest elevation at this location. Because no water was encountered in the backfill at this location, MFG judged that the backfill was not acting as a preferential pathway for shallow groundwater flow, therefore no hand auger boring was performed upstream at location B-10. Based on observations at the three locations explored, the depth to shallow groundwater is greater than the depth of the storm sewer utility backfill material.

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3.2 Site Stratigraphy and Field Observations

Surface materials encountered at the Site generally consisted of 4 inches of asphalt and approximately 8 inches of underlying baserock fill. The underlying soil strata generally consisted of sandy clay and/or clay mixtures throughout the maximum depths explored (approximately 13 feet bgl). The depths to the first observed saturated soil varied from approximately 7 to 11.5 feet bgl. Lithologic logs of the soil borings are included in Appendix H.

As previously mentioned, a hand auger was used to assess the possible presence of shallow groundwater in backfill material that surrounds the Site's storm sewer at two separate locations, as well as an additional location at the UST excavation. No groundwater was encountered at the depth of the backfill at these locations. The storm sewer backfill material consisted mainly of a yellow brown sandy clay material with some fine sand, some gravel and minor amounts of coarse grained sand.

3.3 Shallow Groundwater Sample Analytical Methods and Results

The shallow groundwater samples were analyzed for VOCs and fuel oxygenates using EPA Method 8260B; and TPPH as gasoline using EPA Method 8015M. The analytical results for these samples are summarized in Table 4. Analytical laboratory reports and chain-of-custody records are presented in Appendix I.

No TPPH as gasoline or BTEX compounds were detected at concentrations above the laboratory reporting limit for these constituents in any of the samples. Concentrations of MTBE detected in these samples ranged from non-detect (in three samples) to 0.9, 1.2, 14 and 37 µg/L in samples from locations B-13, B-12, B-8, and B-9, respectively. Acetone was detected at a concentration of 15 µg/L in one sample (B-9). Carbon disulfide was not detected in two samples and was detected at concentrations of between 0.5 and 4.6 µg/L in the other samples (B-8, B-9, B-11, B-13 and B-14). Naphthalene was detected at a concentration of 0.5 µg/L in one sample (B-14). All of the reported detections are at concentrations well below the applicable RWQCB screening levels (RWQCB, 2001).

The analytical results complete the delineation of MTBE-impacted shallow groundwater at the Site. The data generated in this investigation confirm that the extent of MTBE impact is limited, and does not extend off-Site.

4.0 SUMMARY AND CONCLUSIONS

4.1 UST System Removal

The 12,000-gallon gasoline UST system, and the 550-gallon waste oil tank system were observed to be in good condition upon removal. No cracks, pits, or holes were visible at the time of inspection.

No significant indications of petroleum-hydrocarbon impact were observed in the soil exposed in the excavations made during UST system removal, except for limited areas beneath the dispenser, pipeline and hydraulic lift areas. Additional excavation and confirmation sampling of the soil beneath the dispenser pipeline and hydraulic lift areas was conducted to remove soil exhibiting petroleum odor and/or staining.

Soil excavated during UST removal operations was stockpiled, tested, and approved for reuse in backfilling of the excavations. Soil excavated from the dispenser, pipeline and hydraulic lift areas where hydrocarbon impact was evident was properly disposed of off-site at a permitted facility.

The results of final confirmation sample results were compared to California Regional Water Quality Control Board (RWQCB) screening levels to judge the overall soil quality and the adequacy of over-excavation activities. The screening levels were developed using conservative health and ecological risk criteria and comprehensive exposure scenarios. Some of the exposure scenarios may not be applicable to a given site, however the screening levels provide a conservative basis for evaluating conditions at a given site.

The screening level category applicable to current conditions and future planned use at the Site is the scenario for surface and subsurface soils and groundwater where groundwater is not a current or potential source of drinking water and where land use is designated as commercial/industrial (RWQCB, 2001). Previous investigations have documented that shallow groundwater quality at the Site is poor. Groundwater samples collected from the former monitoring wells had specific conductance values up to 30,000 micromhos/cm; therefore based on the elevated salinity values, the shallow groundwater is not suitable as a drinking water source. The Site will be redeveloped as part of the Port of Oakland's Oakland International Airport Terminal expansion project. We understand that this project will involve reconfiguring the Site to be occupied by new alignment of Airport Boulevard. Based on this information, a future use of commercial/industrial operations is appropriate for the Site.

Analytical results for soil samples collected in conjunction with the gasoline UST system removal indicate that petroleum-impacted soil was encountered at locations PL-1 and PL-2 as well as dispenser location DP-3. Additional excavation activities removed soil impacted by petroleum hydrocarbons and is documented by subsequent confirmation soil sample analysis. Based on the soil analytical results, final confirmation sample results indicate that concentrations of chemical constituents remaining beneath excavated areas are either below the screening levels or are not above the laboratory reporting limits.

Analytical results for soil samples collected in conjunction with the waste oil UST system indicate that only low concentrations of TEPH as diesel or motor oil remain. These concentrations are well below the RBSL values for these constituents. No VOCs, SVOCs, or PCBs were detected above laboratory reporting limits in these samples. Concentrations of lead, cadmium, chromium, nickel and zinc detected in these samples appear to be at natural concentrations and are well below screening levels.

Analytical results for soil samples collected in conjunction with the hydraulic lift cylinder indicate that only low concentrations of TEPH as hydraulic oil remain. The concentration is well below the screening level for this constituent.

4.2 Groundwater Quality

The results of the shallow groundwater investigation indicate that the extent of MTBE-impacted groundwater is limited and does not extend off-Site (see Figure 5). The highest concentration of MTBE detected in shallow groundwater was at location B-6, directly downgradient of the recently removed gasoline UST. MTBE was not detected above laboratory reporting limits at locations B-10, B-11, and B-14, further downgradient from the recently removed gasoline UST. At location B-13, also downgradient from the recently removed gasoline UST, MTBE was detected at 0.9 µg/L, slightly above the laboratory reporting limit of 0.5 µg/L.

Low concentrations of VOCs were detected in some samples. In all cases, including MTBE, the concentrations are well below the applicable screening levels. While it is not known whether the source of MTBE was one of the former USTs or the associated piping or dispensers, with the removal of the USTs, piping and impacted soil, the source has been mitigated. Concentrations of MTBE are therefore not likely to be found at concentrations above the screening levels at or downgradient of the Site.

The grab groundwater sample from the gasoline UST excavation pit contained low concentrations of TPH, BTEX compounds, MTBE and TBA. None of these compounds, except MTBE were detected in other shallow groundwater samples. All of the reported detections in the former gasoline UST pit sample were below screening levels except for TPH as gasoline at a concentration of 510 (slightly above the screening level of 500 µg/L) and total xylenes at a concentration of 72 µg/L (above the screening level of 13 µg/L). Given the recent source removal effort, the well-established horizontal gradient direction, the generally fine grained nature of the near-surface soil, and the absence of all but the MTBE in the downgradient groundwater samples, the extent of impacted groundwater is limited and is unlikely to significantly increase in the Site vicinity.

TEPH as diesel and motor oil were detected in the grab groundwater sample collected from the former waste oil UST excavation pit. With diesel and motor oil concentrations of 1,000 and 1,300 µg/L, respectively, these reported detections are above the screening level of 640 µg/L that is applicable to both parameters. Although these concentrations are slightly above the screening levels, and given the limited mobility of these medium to heavy range petroleum hydrocarbons, the recent source removal effort, and the generally fine-grained nature of the near-surface soil, the extent of impacted groundwater is limited. Considering that MTBE, a much more mobile constituent, has a limited extent of impact in shallow groundwater at the Site, the corresponding extent of potential TEPH impact would be much less. Based on this comparison, the TEPH concentrations reported in the grab groundwater sample collected from the waste oil UST excavation pit is unlikely to significantly increase in the Site vicinity.

Based on the data generated during this investigation, environmental impacts from the former UST systems at the Site have been sufficiently defined and mitigated. Shallow groundwater concentrations are generally well below applicable screening levels for the Site and therefore, the constituents remaining in groundwater pose no significant risk to human health or the environment. Given that Avis will discontinue operations in the near future and decommission the Sites and that the future use of the Site will become part of a new realignment of the Airport main road network, no further work is needed and we request that site closure be considered.

5.0 REFERENCES

- Alameda County Health Care Services Agency (ACHCSA), 2002, *Letter to Avis Rent-A-Car System, Inc.*
– *Subject: Request for Workplan for Avis Rent-A-Car, 1 Neil Armstrong Way, Oakland CA:*
January 18, 2002.
- Alameda County Health Care Services Agency (ACHCSA), 2002, *Letter to Avis Rent-A-Car System, Inc.*
– *Subject: Avis Rent-A-Car, 1 Neil Armstrong Way, Oakland CA:* February 26, 2002.
- Alameda County Health Care Services Agency (ACHCSA), 2002, *Letter to Avis Rent-A-Car System, Inc.*
– *Subject: Work Plan for Additional Groundwater Investigation, Avis Rent-A-Car, 1 Neil
Armstrong Way, Oakland CA:* March 25, 2002.
- California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), 2001,
*Application of Risk-Based Screening Levels and Decision Making to Sites With Impacted Soil and
Groundwater, Interim Final,* December.
- California Regional Water Quality Control Board (RWQCB), 1990, *Tri-Regional Board Staff
Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites,
August 1990.*
- IHI Environmental, 2001, *Limited Asbestos Survey, Avis Rent A Car, Oakland International Airport,
Oakland, California, November 9.*
- MFG, Inc., 2001, *Phase II Investigation Report, Avis Rent-A-Car, 1 Neil Armstrong Way, Oakland CA:*
February 15, 2001.
- MFG, Inc., 2002, *Work Plan for Additional Groundwater Investigation, Avis Rent-A-Car, 1 Neil
Armstrong Way, Oakland CA:* March 14, 2002.

TABLE 1
SUMMARY OF CHEMICAL ANALYSES OF CONFIRMATION SOIL SAMPLES FOR TPPH, TEPH, VOCs AND FUEL OXYGENATES AND PID FIELD READINGS

Former Avis Rent A Car System, Inc Facility
 Oakland International Airport
 Oakland, California

SAMPLE ID	SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH (feet bgl)	TPPH AS GASOLINE (mg/kg)	TEPH AS DIESEL (mg/kg)	TEPH AS MOTOR OIL (mg/kg)	TEPH AS HYDRAULIC OIL (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	OTHER VOCs (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	TAME (mg/kg)	OTHER FUEL OXYGENATES ¹ (mg/kg)	PID (ppmv)
GASOLINE UST EXCAVATION																	
UST 1 - NORTH	16-Jul-02	North sidewall at groundwater interface	11	ND [0.25]	--	--	--	ND [0.0056]	ND [0.0056]	ND [0.0056]	ND [0.0056]	ND [0.0056-0.056]	0.021	ND [0.110]	ND [0.0056]	ND [0.0056]	0.0
UST 1 - SOUTH	16-Jul-02	South sidewall at groundwater interface	11	ND [0.25]	--	--	--	ND [0.0060]	ND [0.0060]	ND [0.0060]	ND [0.0060]	ND [0.0060-0.060]	0.076	ND [0.120]	ND [0.0060]	ND [0.0060]	0.0
UST 1 - EAST	16-Jul-02	East sidewall at groundwater interface	11	ND [0.19]	--	--	--	ND [0.0049]	ND [0.0049]	ND [0.0049]	ND [0.0049]	ND [0.0049-0.049]	0.078	ND [0.098]	ND [0.0049]	ND [0.0049]	0.0
UST 1 - WEST	16-Jul-02	West sidewall at groundwater interface	11	ND [0.26]	--	--	--	ND [0.0060]	ND [0.0060]	ND [0.0060]	ND [0.0060]	ND [0.0060-0.060]	0.013	ND [0.120]	ND [0.0060]	ND [0.0060]	0.0
GASOLINE UST DISPENSERS AND PIPING AREA																	
DP-1	19-Jul-02	Beneath southern dispenser	2.0	0.18	20 ^{2,3}	10 ⁴	--	ND [0.0050]	ND [0.0050]	ND [0.0050]	ND [0.0050]	ND [0.0050-0.050]	0.015	ND [0.10]	ND [0.0050]	ND [0.0050]	51
DP-2	19-Jul-02	Beneath center dispenser	2.0	ND [0.17]	29 ^{2,3}	28 ⁴	--	ND [0.0041]	ND [0.0041]	ND [0.0041]	ND [0.0041]	ND [0.0041-0.016]	0.68	0.15	ND [0.0041]	ND [0.0041]	17
DP-3	19-Jul-02	Beneath northern dispenser	4.0	3.0 ²	39 ^{2,3,4}	18 ⁴	--	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.20]	ND [0.20-2.0]	6.8	0.83	0.0048	ND [0.0042]	53
DP-3 (7.5-8.0)	23-Sep-02	Over-excavation beneath northern dispenser	8.0	ND [0.24]	--	--	--	--	--	--	--	--	ND [0.0054]	ND [0.11]	ND [0.0054]	ND [0.0054]	2
PL-1	16-Jul-02	Beneath pipeline, 26 feet north of UST	3.0	430 ²	--	--	--	ND [0.20]	ND [0.20]	ND [0.20]	0.590	ND [0.20-2.0] ⁵	ND [0.20]	ND [4.0]	ND [0.20]	ND [0.20]	261
PL-1 (3.5-4.0)	19-Jul-02	Piping Over-excavation, 26 feet north of UST	4.0	ND [0.17]	140 ^{2,3}	48 ⁴	--	ND [0.0045]	ND [0.0045]	ND [0.0045]	ND [0.0045]	ND [0.0045-0.018]	1.3	0.48	ND [0.0045]	ND [0.0045]	17
PL-1 (6.5-7.0)	23-Sep-02	Piping Over-excavation, 26 feet north of UST	7.0	ND [0.23]	--	--	--	--	--	--	--	--	ND [0.0054]	ND [0.11]	ND [0.0054]	ND [0.0054]	0
PL-2	16-Jul-02	Beneath pipeline, 46 feet north of UST	3.0	1,300 ²	--	--	--	ND [4.2]	28	22	231	ND [4.2-42] ⁶	ND [4.2]	ND [83]	ND [4.2]	ND [4.2]	728
PL-2 (7.5-8.0)	19-Jul-02	Piping Over-excavation, 46 feet north of UST	8.0	ND [0.21]	20 ^{2,3}	46 ⁴	--	ND [5.3]	ND [5.3]	ND [5.3]	ND [5.3]	ND [0.0053-0.053]	0.039	ND [0.11]	ND [0.0050]	ND [0.0053]	5.0
WASTE OIL UST EXCAVATION																	
WO 1 Bottom	16-Jul-02	Beneath UST	10	--	1.2 ³	ND [5.0]	--	ND [0.50]	ND [0.50]	ND [0.50]	ND [0.50]	ND [0.50-5.0]	ND [0.50]	--	--	--	0.0
WO 1 East	16-Jul-02	East sidewall at groundwater interface	8.5	--	27 ^{2,3}	36 ⁴	--	ND [0.0046]	ND [0.0046]	ND [0.0046]	ND [0.0046]	ND [0.0046-0.046]	ND [0.0046]	--	--	--	0.0
HYDRAULIC LIFT CYLINDER EXCAVATION																	
HL-1	19-Jul-02	Beneath hydraulic lift cylinder	8.5	--	2,500 ^{2,3}	--	3,600	--	--	--	--	--	--	--	--	--	1.8
HL-1 (7.5-8.0)	23-Sep-02	Over-excavation beneath hydraulic lift	8.0	--	ND [0.99]	--	ND [5.0]	--	--	--	--	--	--	--	--	--	0.6
RWQCB SCREENING LEVELS⁹																	
Surface Soil (<10 feet bgl):				400	500	500	500	0.39	8.4	24	1.0	NA	1.0	NA	NA	NA	NA
Subsurface Soil (>10 feet bgl):				400	500	500	500	0.39	8.4	24	1.0	NA	1.0	NA	NA	NA	NA

TABLE 1

SUMMARY OF CHEMICAL ANALYSES OF CONFIRMATION SOIL SAMPLES FOR TPPH, TEPH, VOCs AND FUEL OXYGENATES AND PID FIELD READINGS

Former Avis Rent A Car System, Inc. Facility
Oakland International Airport
Oakland, California

SAMPLE ID	SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH (feet bgl)	TPPH AS GASOLINE (mg/kg)	TEPH AS DIESEL (mg/kg)	TEPH AS MOTOR OIL (mg/kg)	TEPH AS HYDRAULIC OIL (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	OTHER VOCs (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	TAME (mg/kg)	OTHER FUEL OXYGENATES ¹ (mg/kg)	PID (ppmv)	
																		SOIL STOCKPILES
SS-1 A,B,C,D (Composite)	17-Jul-02	Gasoline UST Stockpile	NA	5.9 ^{2,3}	--	--	--	ND [0.0046]	ND [0.0046]	ND [0.0046]	ND [0.0046]	ND [0.0046-0.046] ⁷	0.0099	--	--	--	--	
SS-1 E,F,G,H (Composite)	17-Jul-02	Gasoline UST Stockpile	NA	ND [1.1]	--	--	--	ND [0.0051]	ND [0.0051]	ND [0.0051]	ND [0.0051]	ND [0.0051-0.051]	0.011	--	--	--	--	
SS-2 A,B,C,D (Composite)	17-Jul-02	Waste Oil UST Stockpile	NA	--	78 ²	87 ⁴	--	ND [0.0049]	ND [0.0049]	ND [0.0049]	ND [0.0049]	ND [0.0049-0.049]	ND [0.0049]	--	--	--	--	
SS-3 A,B,C,D (Composite)	19-Jul-02	Piping Overexcavation Stockpile	NA	89 ³	--	--	--	ND [0.025]	ND [0.025]	0.84	1.37	ND [0.025-0.25] ⁸	0.082	ND [0.50]	ND [0.025]	ND [0.025]	--	
RWQCB SCREENING LEVELS ⁹				Surface Soil (<10 feet bgl):	400	500	500	500	0.39	8.4	24	1.0	NA	1.0	NA	NA	NA	NA
				Subsurface Soil (>10 feet bgl):	400	500	500	500	0.39	8.4	24	1.0	NA	1.0	NA	NA	NA	NA

NOTES:

- TPPH Total purgeable petroleum hydrocarbons. Analyzed using modified EPA Method 8015 and quantified against a gasoline standard.
- TEPH Total extractable petroleum hydrocarbons. Analyzed using modified EPA Method 8015 and quantified against diesel, motor oil and hydraulic oil standards.
- VOCs Volatile organic compounds. Analyzed using EPA Method 8260B.
- MTBE Methyl tertiary-butyl ether. Analyzed using EPA Method 8260B.
- TBA Tertiary-butyl alcohol. Analyzed using EPA Method 8260B.
- TAME Tertiary-amyl methyl ether. Analyzed using EPA Method 8260B.
- PID Photoionization detector. Headspace measurements were obtained using a PID with a 10.6 eV lamp and calibrated to 100 ppmv isobutylene gas standard.
- UST Underground storage tank.
- bgl Below ground level
- mg/kg Milligrams per kilogram
- ppmv Parts per million by volume.
- Shaded entry indicates that soil from sampling location was subsequently excavated.
- ND Not detected at or above the laboratory reporting limit.
- [] Indicates the laboratory reporting limit.
- NA Not applicable.
- Not analyzed.
- 1 Other fuel oxygenates included di-isopropyl ether (DIPE) and ethyl tertiary-butyl ether (ETBE). Analyzed using EPA Method 8260B.
- 2 Laboratory reported that heavier hydrocarbons contributed to the quantification.
- 3 Laboratory reported that the sample exhibits fuel pattern which does not resemble standard.
- 4 Laboratory reported that lighter hydrocarbons contributed to the quantification.
- 5 Other detections not listed above include: 1,3,5-trimethylbenzene at 2.4 mg/kg; 1,2,4-trimethylbenzene at 6.0 mg/kg; n-butylbenzene at 0.81 mg/kg; and Napthalene at 0.81 mg/kg. The laboratory report provides all noted results.
- 6 Other detections not listed above include: propylbenzene at 9.7 mg/kg; 1,3,5-trimethylbenzene at 53 mg/kg; 1,2,4-trimethylbenzene at 150 mg/kg; n-butylbenzene at 18 mg/kg; and naphthalene at 2.3 mg/kg. The laboratory report provides all noted results.
- 7 Other detection not listed above includes: n-butylbenzene at 0.0066 mg/kg. The laboratory report provides all noted results.
- 8 Other detections not listed above include: isopropylbenzene at 0.091 mg/kg; propylbenzene at 0.43 mg/kg; 1,3,5-trimethylbenzene at 0.77 mg/kg; 1,2,4-trimethylbenzene at 1.8 mg/kg; sec-butylbenzene at 0.033 mg/kg; n-butylbenzene at 0.21 mg/kg; and naphthalene at 0.68 mg/kg. The laboratory report provides all noted results.
- 9 Reference: California Regional Water Quality Control Board (RWQCB), *Application of Risk-Based Screening Levels and Decision Making to Sites With Impacted Soil and Groundwater, Interim Final - December 2001*. Levels referenced are for surface soil (< 3 meters in depth) and subsurface soil (>3 meters in depth) where groundwater is not a current or potential source of drinking water and land use is industrial/commercial.

Metals were analyzed using EPA Method 6010B.

TABLE 2

SUMMARY OF CHEMICAL ANALYSES OF CONFIRMATION SOIL SAMPLES FOR SVOCs, PCBs AND METALS

Former Avis Rent A Car System, Inc. Facility
Oakland International Airport
Oakland, California

SAMPLE ID	SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH (feet bgl)	SVOCs (mg/kg)	PCBs (mg/kg)	TOTAL LEAD (mg/kg)	TOTAL CADMIUM (mg/kg)	TOTAL CHROMIUM (mg/kg)	TOTAL NICKEL (mg/kg)	TOTAL ZINC (mg/kg)	
WASTE OIL UST EXCAVATION											
WO 1 Bottom	16-Jul-02	Beneath UST	10	ND [0.33-1.7]	ND [0.012-0.024]	0.79	0.25	14	15	8.7	
WO 1 East	16-Jul-02	East sidewall at groundwater interface	8.5	ND [0.33-1.7]	ND [0.012-0.024]	4.9	1.2	25	40	37	
RWQCB SCREENING LEVELS ¹				Surface Soil (<10 feet bgl):	NA	1.0	750	12	750	150	600
				Subsurface Soil (>10 feet bgl):	NA	5.6	750	33	5,000	1,000	5,000
SOIL STOCKPILES											
SS-2 A,B,C,D (Composite)	17-Jul-02	Waste Oil UST Stockpile	NA	ND [0.33-1.7]	ND [0.012-0.024]	4.5	1.2	25	38	35	
SS-3 A,B,C,D (Composite)	19-Jul-02	Piping Over-excavation Stockpile	NA	--	--	19	0.95	20	33	39	

NOTES:

- SVOCs Semi-volatile organic compounds (SVOCs). Analyzed using EPA Method 8270C.
- PCBs Polychlorinated Biphenyls (PCBs). Analyzed using EPA Method 8082.
- UST Underground storage tank.
- bgl Below ground level.
- mg/kg Milligrams per kilogram.
- ND Not detected at or above the laboratory reporting limit.
- [] Indicates the laboratory reporting limit.
- NA Not applicable.
- Not analyzed.

¹ Reference: California Regional Water Quality Control Board (RWQCB), *Application of Risk-Based Screening Levels and Decision Making to Sites With Impacted Soil and Groundwater, Interim Final - December 2001*. Levels referenced are for surface soil (< 3 meters in depth) and subsurface soil (>3 meters in depth) where groundwater is not a current or potential source of drinking water and land use is industrial/commercial.

Metals were analyzed using EPA Method 6010B.

TABLE 3
SUMMARY OF CHEMICAL ANALYSES OF CONFIRMATION GROUNDWATER SAMPLES

Former Avis Rent A Car System, Inc. Facility
Oakland International Airport
Oakland, California

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (feet bgl)	TPPH AS GASOLINE (µg/L)	TEPH AS DIESEL (µg/L)	TEPH AS MOTOR OIL (µg/L)	OIL & GREASE (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL-BENZENE (µg/L)	TOTAL XYLENES (µg/L)	OTHER VOCs (µg/L)	MTBE (µg/L)	TBA (µg/L)	OTHER FUEL OXYGENATES ¹ (µg/L)	SVOCs (µg/L)	PCBs (µg/L)	TOTAL LEAD (µg/L)	TOTAL CADMIUM (µg/L)	TOTAL CHROMIUM (µg/L)	TOTAL NICKEL (µg/L)	TOTAL ZINC (µg/L)	
GASOLINE UST EXCAVATION																						
UST 1-GW	16-Jul-02	11.5	510	--	--	--	28	75	6.0	72	ND [0.5-10] ⁴	130	30	ND [0.5]	--	--	--	--	--	--	--	
WASTE OIL UST EXCAVATION																						
WO 1-GW	17-Jul-02	9.0	--	--	--	ND [18,300]	ND [2.5]	ND [2.5]	ND [2.5]	ND [2.5]	ND [2.5-50] ⁵	ND [2.5]	--	--	ND [9.9-50]	ND [0.49-0.98]	ND [3.0]	ND [5.0]	ND [10]	ND [20]	ND [20]	
WO 2-GW	07-Aug-02	9.0	--	1,000 ^{2,3}	1,300	--	--	--	--	--	--	--	--	--	--	ND [0.49-0.98]	--	--	--	--	--	
RWQCB SCREENING LEVELS⁶			(<10 feet bgl):	500	640	640	NA	46	130	290	13	NA	1,800	NA	NA	NA	0.014	3.2	1.1	180	8.2	23
			(>10 feet bgl):	500	640	640	NA	46	130	290	13	NA	1,800	NA	NA	NA	0.014	3.2	1.1	180	8.2	23

NOTES:

- TPPH Total purgeable petroleum hydrocarbons. Analyzed using modified EPA Method 8015 and quantified against a gasoline standard.
 - TEPH Total extractable petroleum hydrocarbons. Analyzed using modified EPA Method 8015 and quantified against diesel and motor oil standards.
 - VOCs Volatile organic compounds. Analyzed using EPA Method 8260B.
 - MTBE Methyl tertiary-butyl ether. Analyzed using EPA Method 8260B.
 - TBA Tertiary-butyl alcohol. Analyzed using EPA Method 8260B.
 - SVOCs Semi-volatile organic compounds (SVOCs). Analyzed using EPA Method 8270C.
 - PCBs Polychlorinated Biphenyls (PCBs). Analyzed using EPA Method 8082.
 - UST Underground storage tank.
 - bgl Below ground level.
 - µg/L Micrograms per liter.
 - Shaded entry indicates that groundwater from sampling location was subsequently purged.
 - ND Not detected at or above the laboratory reporting limit.
 - [] Indicates the laboratory reporting limit.
 - NA Not applicable.
 - Not analyzed.
 - 1 Other fuel oxygenates included tertiary-amyl methyl ether (TAME); di-isopropyl ether (DIPE) and ethyl tertiary-butyl ether (ETBE). Analyzed using EPA Method 8260B.
 - 2 Laboratory reported that lighter and heavier hydrocarbons contributed to the quantification.
 - 3 Laboratory reported that the sample exhibits fuel pattern which does not resemble standard.
 - 4 Other detections not listed above include: 1,3,5-trimethylbenzene at 7.1 µg/L; 1,2,4-trimethylbenzene at 16 µg/L; and naphthalene at 0.6 µg/L. The laboratory report provides all noted results.
 - 5 Other detection not listed above includes: acetone at 51 µg/L. The laboratory report provides all noted results.
 - 6 Reference: California Regional Water Quality Control Board (RWQCB), *Application of Risk-Based Screening Levels and Decision Making to Sites With Impacted Soil and Groundwater, Interim Final - December 2001*. Levels referenced are for groundwater (< 3 meters in depth and > 3 meters in depth) where groundwater is not a current or potential source of drinking water and land use is industrial/commercial.
- Oil & Grease was analyzed using EPA Method 1664A.
Metals were analyzed using EPA Method 6010B.

TABLE 4

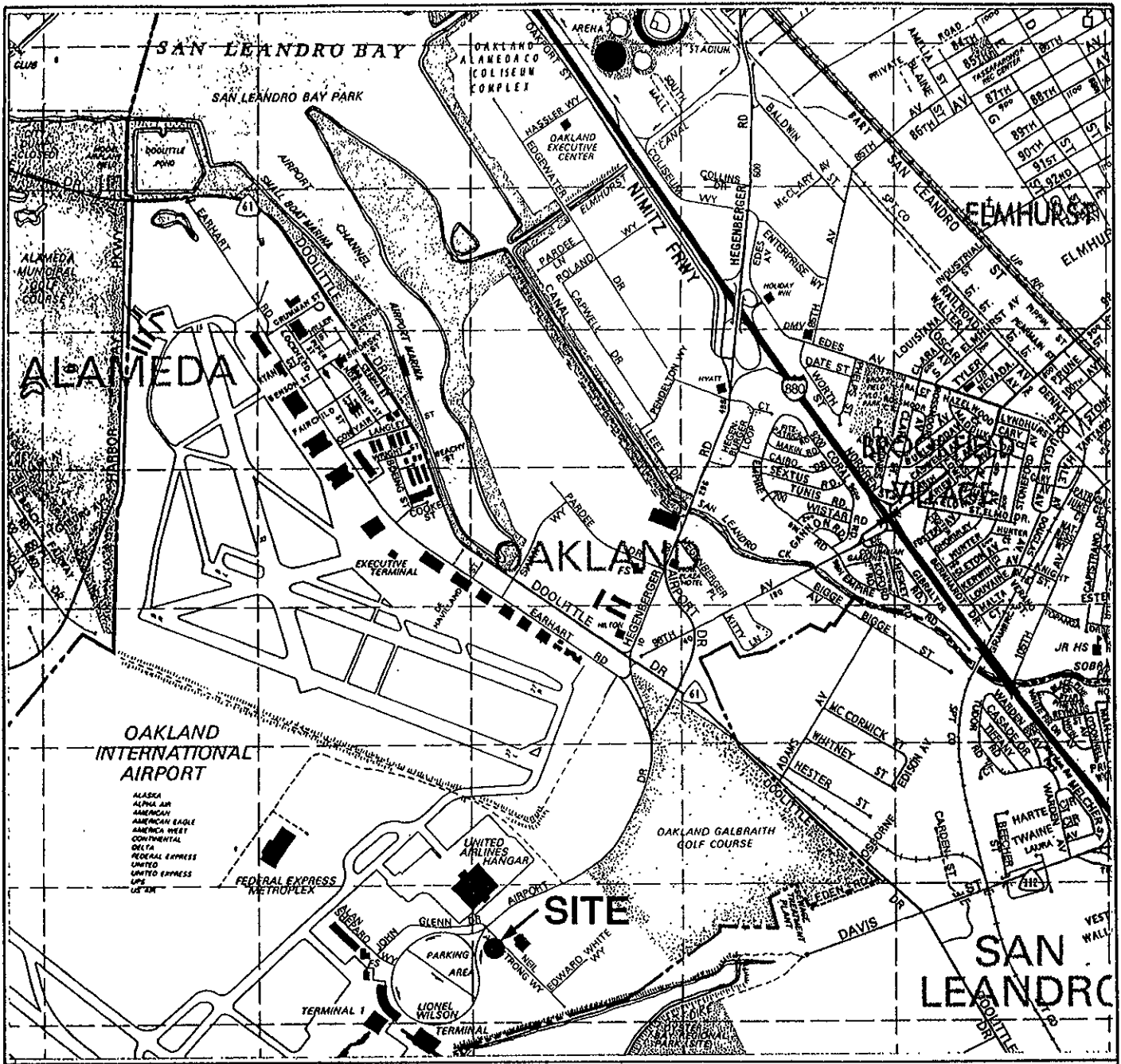
SUMMARY OF CHEMICAL ANALYSES OF GROUNDWATER SAMPLES FROM SOIL BORINGS

Former Avis Rent A Car System, Inc. Facility
Oakland International Airport
Oakland, California

SAMPLE ID	SAMPLE DATE	TPPH AS GASOLINE µg/L	BENZENE µg/L	TOLUENE µg/L	ETHYL- BENZENE µg/L	TOTAL XYLENES µg/L	ACETONE µg/L	CARBON DISULFIDE µg/L	NAPH- THALENE µg/L	OTHER VOCs µg/L	MTBE µg/L	OTHER FUEL OXYGENATES ¹ µg/L
Reporting Limit:		50	0.5	0.5	0.5	0.5	10	0.5	0.5	0.5 - 10	0.5	0.5 - 20
B8-GW	16-Jul-02	ND	ND	ND	ND	ND	ND	0.8	ND	ND	14	ND
B9-GW	16-Jul-02	ND	ND	ND	ND	ND	15	3.7	ND	ND	37	ND
B10-GW	16-Jul-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B11-GW	16-Jul-02	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND	ND
B12-GW	16-Jul-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND
B13-GW	16-Jul-02	ND	ND	ND	ND	ND	ND	4.6	ND	ND	0.9	ND
B14-GW	16-Jul-02	ND	ND	ND	ND	ND	ND	0.5	0.5	ND	ND	ND
RWQCB Screening Levels²		500	46	130	290	13	1,500	NA	24	NA	1,800	NA

NOTES:

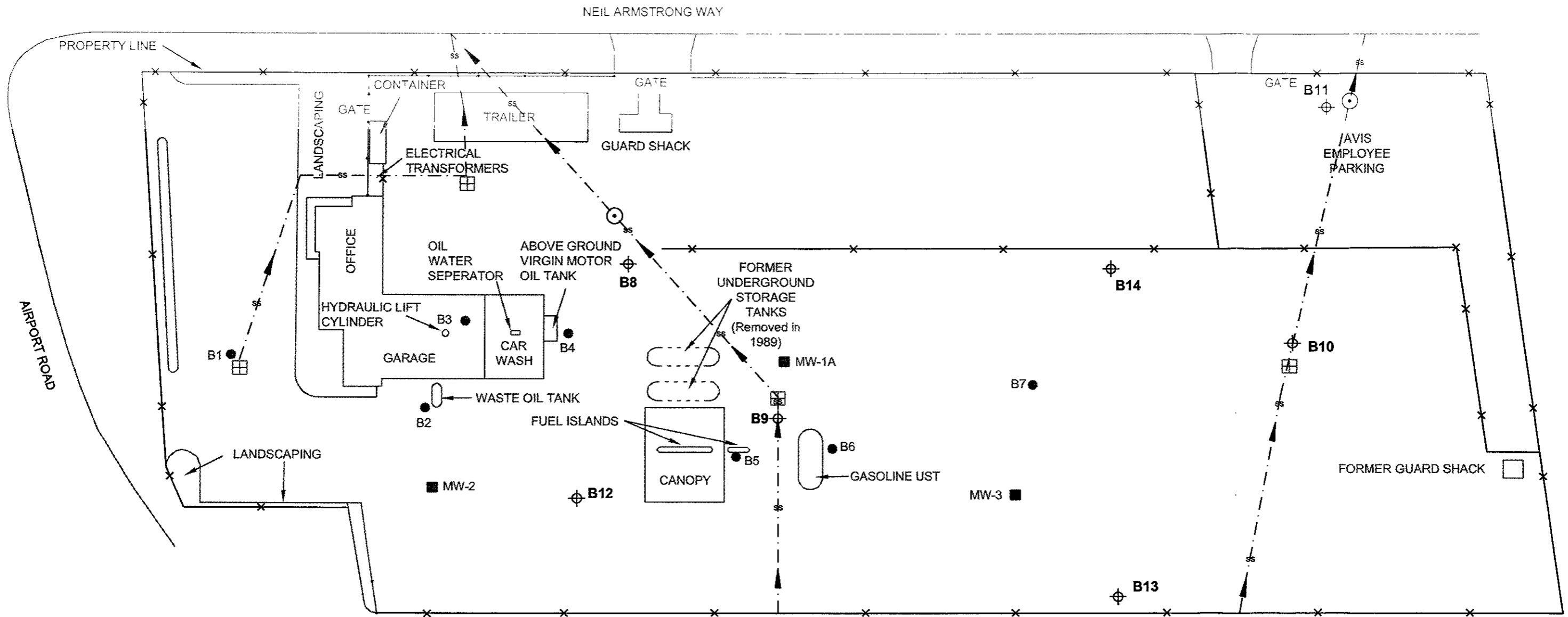
- TPPH Total purgeable petroleum hydrocarbons. Analyzed using modified EPA Method 8015 and quantified against a gasoline standard.
- VOCs Volatile organic compounds. Analyzed using EPA Method 8260B.
- MTBE Methyl tertiary-butyl ether. Analyzed using EPA Method 8260B.
- µg/L Micrograms per liter.
- ND Not detected at or above the laboratory reporting limit shown at the top of the column.
- NA Not applicable.
- 1 Other fuel oxygenates included tertiary-butyl alcohol (TBA); tertiary-amyl methyl ether (TAME); di-isopropyl ether (DIPE) and ethyl tertiary-butyl ether (ETBE). Analyzed using EPA Method 8260B.
- 2 Reference: California Regional Water Quality Control Board (RWQCB), *Application of Risk-Based Screening Levels and Decision Making to Sites With Impacted Soil and Groundwater, Interim Final - December 2001*. Levels referenced are for groundwater (< 3 meters in depth and > 3 meters in depth) where groundwater is not a current or potential source of drinking water and land use is industrial/commercial.



Source: The Thomas Guide,
Alameda and Santa Clara Counties Street Guide and Directory,
1989 Edition

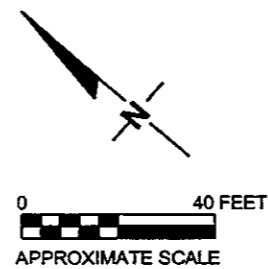


LOCATION MAP Avis Rent A Car System, Inc. Facility Oakland International Airport Oakland, California		
McCulley, Frick & Gilman, Inc.	Project No. 90-2143	Figure 1



EXPLANATION

- FENCE
- BLOCK WALL
- B-1 ● PERVIOUS GROUNDWATER SAMPLE LOCATION
- MW-2 ■ FORMER WELL LOCATION
- B13 ⊕ GROUNDWATER SAMPLE LOCATION (July 2002)
- CATCH BASIN
- APPROXIMATE STORM SEWER ALIGNMENT
- HAND AUGER LOCATION



NOTE: BASE MAP ADAPTED FROM A CONSTRUCTION DRAWING PROVIDED BY AVIS RENT A CAR SYSTEM, INC.

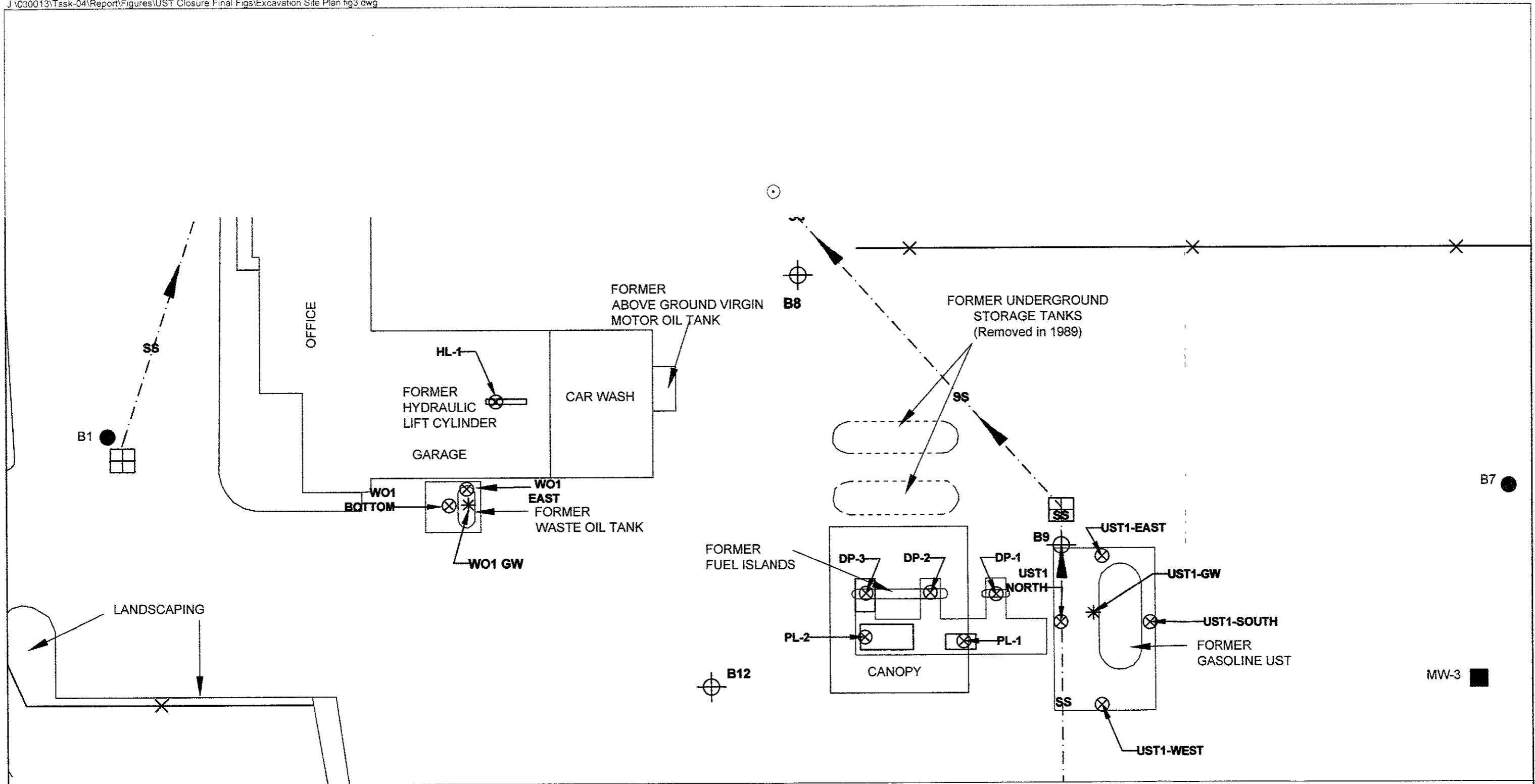
SITE PLAN

Former Avis Rent A Car System, Inc. Facility
Oakland International Airport
Oakland, California

Project No. 030013	By: M. Hillyard
Date: 10/04/02	Checked: K. Johnson

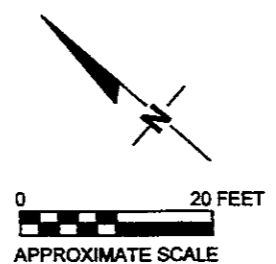
Figure 2

MFG, Inc.
consulting scientists and engineers



EXPLANATION

- x— FENCE
- +— BLOCK WALL
- B-1 ● PREVIOUS GROUNDWATER SAMPLE LOCATION
- MW-2 ■ FORMER WELL LOCATION
- B13 ⊕ GROUNDWATER SAMPLE LOCATION (July 2002)
- ⊞ CATCH BASIN
- +— APPROXIMATE STORM SEWER ALIGNMENT
- ⊙ HAND AUGER LOCATION
- * CONFIRMATION GROUNDWATER SAMPLE LOCATION FOR UST CLOSURE
- ⊗ CONFIRMATION SOIL SAMPLE FOR UST CLOSURE
- EXCAVATED AREA (July 16 and 19, 2002)
- 1st OVEREXCAVATION (July 19, 2002)
- 2nd OVEREXCAVATION (September 23, 2002)



SITE PLAN SHOWING EXCAVATION AREAS AND LOCATIONS OF CONFIRMATION SAMPLES

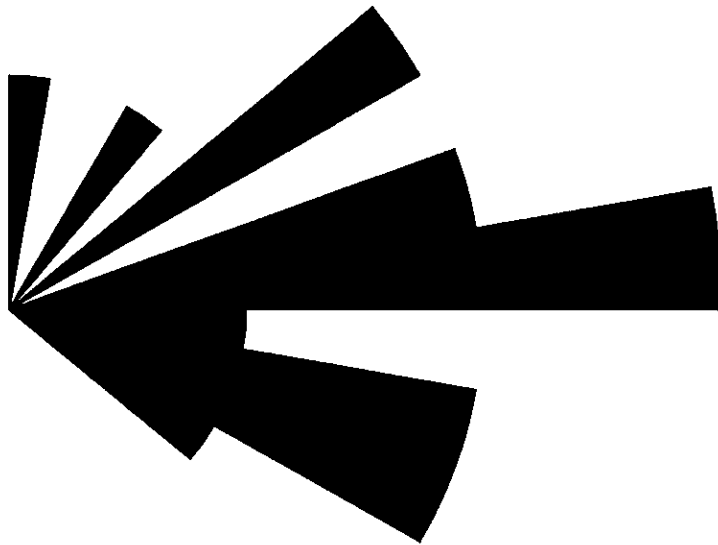
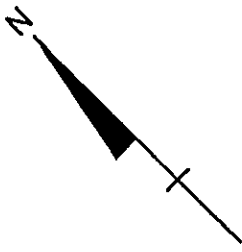
Former Avis Rent A Car System, Inc. Facility
Oakland International Airport
Oakland, California

Project No. 030013	By: J. Triolo
Date: 10/2/02	Checked: K. Johnson

Figure 3

MFG, Inc.
consulting scientists and engineers

NOTE: BASE MAP ADAPTED FROM A CONSTRUCTION DRAWING PROVIDED BY AVIS RENT A CAR SYSTEM, INC.

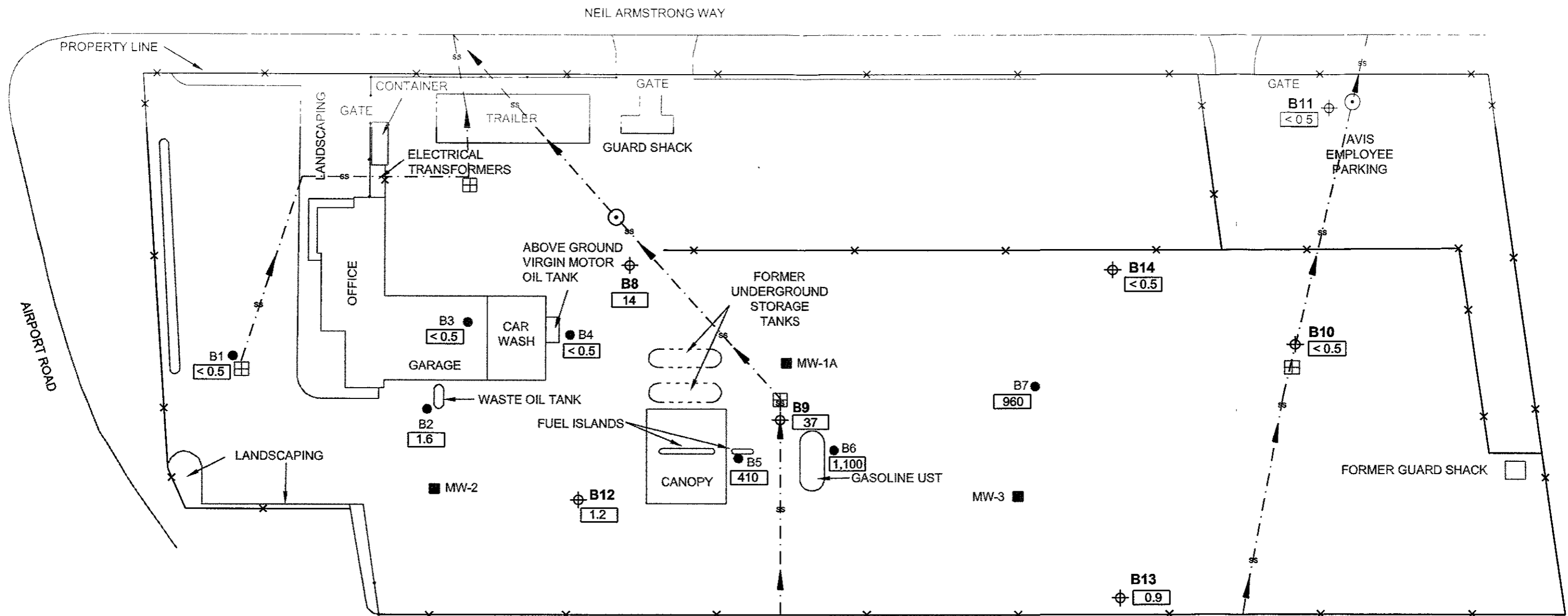


**ROSE DIAGRAM OF HISTORICAL
GROUNDWATER FLOW DIRECTIONS**

Former Avis Rent A Car Systems, Inc. Facility
Oakland International Airport
Oakland, California

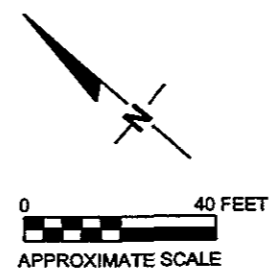
Project No. 030013	By: SCG	Figure 4
Date: 10/2/02	Checked: <i>CGS</i>	

MFG, Inc.
consulting scientists and engineers



EXPLANATION

- FENCE
- BLOCK WALL
- B-1 ● PERVIOUS GROUNDWATER SAMPLE LOCATION
- MW-2 ■ FORMER WELL LOCATION
- <math>< 0.5</math> CONCENTRATION OF MTBE (in micrograms per liter)
- B13 ⊕ GROUNDWATER SAMPLE LOCATION (July 2002)
- CATCH BASIN
- ss- APPROXIMATE STORM SEWER ALIGNMENT
- HAND AUGER LOCATION



CONCENTRATIONS OF MTBE IN SHALLOW GROUNDWATER

Former Avis Rent A Car System, Inc. Facility
Oakland International Airport
Oakland, California

Project No. 030013	By: M. Hillyard	Figure 5
Date: 10/18/02	Checked: K. Johnson	

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NOTE: BASE MAP ADAPTED FROM A CONSTRUCTION DRAWING PROVIDED BY AVIS RENT A CAR SYSTEM, INC.

APPENDIX A

Permits, Permit Applications and Notifications

UNIFIED PROGRAM CONSOLIDATED FORM

UNDERGROUND STORAGE TANKS - FACILITY

TANKS

TYPE OF ACTION (Check one item only)

1. NEW SITE PERMIT 3. RENEWAL PERMIT 5. CHANGE OF INFORMATION (one page per site) Page ___ of ___
 4. AMENDED PERMIT 6. TEMPORARY SITE CLOSURE 7. PERMANENTLY CLOSED SITE
 8. TANK REMOVED

I. FACILITY / SITE INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) **Avis Rent A Car** FACILITY ID#

NEAREST CROSS STREET **Niel Armstrong Way @ Airport Drive**

BUSINESS TYPE 1. GAS STATION 2. DISTRIBUTOR 3. FARM 5. COMMERCIAL 4. LOCAL AGENCY/DISTRICT* 6. STATE AGENCY* 7. FEDERAL AGENCY*
 2. INDIVIDUAL 3. PARTNERSHIP

TOTAL NUMBER OF TANKS REMAINING AT SITE **0** Is facility on Indian Reservation or trustlands? Yes No

*If owner of UST is a public agency: name of supervisor of division, section or office which operates the UST (This is the contact person for the tank records.)

II. PROPERTY OWNER INFORMATION

PROPERTY OWNER NAME **Port of Oakland** PHONE **(510) 627-1100**

MAILING OR STREET ADDRESS **530 Water St**

CITY **Oakland** STATE **CA** ZIP CODE **94607**

PROPERTY OWNER TYPE 1. CORPORATION 2. INDIVIDUAL 4. LOCAL AGENCY / DISTRICT 6. STATE AGENCY
 3. PARTNERSHIP 5. COUNTY AGENCY 7. FEDERAL AGENCY

III. TANK OWNER INFORMATION

TANK OWNER NAME **Avis Rent A Car** PHONE **(650) 616-0145**

MAILING OR STREET ADDRESS **513 Eccles Ave Suite A**

CITY **South San Francisco** STATE **CA** ZIP CODE **94080**

TANK OWNER TYPE 1. CORPORATION 2. INDIVIDUAL 4. LOCAL AGENCY / DISTRICT 6. STATE AGENCY
 3. PARTNERSHIP 5. COUNTY AGENCY 7. FEDERAL AGENCY

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER

TY (TK) HQ 44 **000421** Call (916) 322-9669 if questions arise

V. PETROLEUM UST FINANCIAL RESPONSIBILITY

INDICATE METHOD(S)

1. SELF-INSURED 4. SURETY BOND 7. STATE FUND 10. LOCAL GOVT MECHANISM
 2. GUARANTEE 5. LETTER OF CREDIT 8. STATE FUND & CFO LETTER 99. OTHER:
 3. INSURANCE 6. EXEMPTION 9. STATE FUND & CD

VI. LEGAL NOTIFICATION AND MAILING ADDRESS

Check one box to indicate which address should be used for legal notifications and mailing. Legal notifications and mailings will be sent to the tank owner unless box 1 or 2 is checked.

1. FACILITY 2. PROPERTY OWNER 3. TANK OWNER

VII. APPLICANT SIGNATURE

Certification - I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF APPLICANT **Dan Head** DATE **4-29-02** PHONE **(925) 516-5800**

NAME OF APPLICANT (print) **Dan Head** TITLE OF APPLICANT **Foreman - American Construction**

STATE UST FACILITY NUMBER (For local use only) 1998 UPGRADE CERTIFICATE NUMBER (For local use only)

UNIFIED PROGRAM CONSOLIDATED FORM

UNDERGROUND STORAGE TANKS - TANK PAGE 1

TANKS

(two pages per tank)

TYPE OF ACTION: 1 NEW SITE PERMIT, 4 AMENDED PERMIT, 5 CHANGE OF INFORMATION, 6 TEMPORARY SITE CLOSURE, 7 PERMANENTLY CLOSED ON SITE, 8 TANK REMOVED, 9 RENEWAL PERMIT

BUSINESS NAME: Avis Rent A Car, FACILITY ID: 3

LOCATION WITHIN SITE: 130' West of Niel Armstrong Way, 240' South of Airport Drive

I. TANK DESCRIPTION: TANK ID #, TANK MANUFACTURER, COMPARTMENTALIZED TANK

DATE INSTALLED: 1989, TANK CAPACITY IN GALLONS: 10,000, NUMBER OF COMPARTMENTS: 1

ADDITIONAL DESCRIPTION: (For local use only)

II. TANK CONTENTS

TANK USE: 1 MOTOR VEHICLE FUEL, PETROLEUM TYPE: 1a REGULAR UNLEADED, COMMON NAME, CAS#

III. TANK CONSTRUCTION

TYPE OF TANK: 2 DOUBLE WALL, TANK MATERIAL - primary tank: 95 UNKNOWN, TANK MATERIAL - secondary tank: 95 UNKNOWN, TANK INTERIOR LINING: 95 UNKNOWN, OR COATING: 95 UNKNOWN

OTHER CORROSION PROTECTION IF APPLICABLE: 95 UNKNOWN

SPILL AND OVERFILL: 1 SPILL CONTAINMENT, OVERFILL PROTECTION EQUIPMENT: 1 ALARM, 2 BALL FLOAT

IV. TANK LEAK DETECTION

IF SINGLE WALL TANK: 1 VISUAL, 2 AUTOMATIC TANK GAUGING, IF DOUBLE WALL TANK OR TANK WITH BLADDER: 1 VISUAL, 2 CONTINUOUS INTERSTITIAL MONITORING

IV. TANK CLOSURE INFORMATION / PERMANENT CLOSURE IN PLACE

ESTIMATED DATE LAST USED: 3-1-02, ESTIMATED QUANTITY OF SUBSTANCE REMAINING: Residual, TANK FILLED WITH INERT MATERIAL?: No

UNIFIED PROGRAM CONSOLIDATED FORM

UNDERGROUND STORAGE TANKS - TANK PAGE 2

TANKS

VI. PIPING CONSTRUCTION (check all that apply)

UNDERGROUND PIPING				ABOVEGROUND PIPING				
SYSTEM TYPE	<input checked="" type="checkbox"/> 1. PRESSURE	<input type="checkbox"/> 2. SUCTION	<input type="checkbox"/> 3. GRAVITY	458	<input type="checkbox"/> 1. PRESSURE	<input type="checkbox"/> 2. SUCTION	<input type="checkbox"/> 3. GRAVITY	459
CONSTRUCTION	<input type="checkbox"/> 1. SINGLE WALL	<input type="checkbox"/> 3. LINED TRENCH	<input type="checkbox"/> 99. OTHER	460	<input type="checkbox"/> 1. SINGLE WALL	<input type="checkbox"/> 2. DOUBLE WALL	<input checked="" type="checkbox"/> 95. UNKNOWN	462
MANUFACTURER	<input checked="" type="checkbox"/> 2. DOUBLE WALL			461	<input type="checkbox"/> 99. OTHER			463
MANUFACTURER	<i>W. J. K. B. Co.</i>			461	MANUFACTURER <i>unknown</i>			463
<input type="checkbox"/> 1. BARE STEEL	<input type="checkbox"/> 6. FRP COMPATIBLE w/100% METHANOL	<input type="checkbox"/> 1. BARE STEEL	<input type="checkbox"/> 6. FRP COMPATIBLE w/100% METHANOL		<input type="checkbox"/> 1. BARE STEEL	<input type="checkbox"/> 6. FRP COMPATIBLE w/100% METHANOL	<input type="checkbox"/> 6. FRP COMPATIBLE w/100% METHANOL	
<input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 7. GALVANIZED STEEL	<input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 7. GALVANIZED STEEL		<input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 7. GALVANIZED STEEL	<input type="checkbox"/> 7. GALVANIZED STEEL	
<input type="checkbox"/> 3. PLASTIC COMPATIBLE w/ CONTENTS	<input type="checkbox"/> 8. FLEXIBLE (HDPE)	<input type="checkbox"/> 3. PLASTIC COMPATIBLE w/ CONTENTS	<input type="checkbox"/> 8. FLEXIBLE (HDPE)		<input type="checkbox"/> 3. PLASTIC COMPATIBLE w/ CONTENTS	<input type="checkbox"/> 8. FLEXIBLE (HDPE)	<input type="checkbox"/> 8. FLEXIBLE (HDPE)	
<input checked="" type="checkbox"/> 4. FIBERGLASS	<input type="checkbox"/> 9. CATHODIC PROTECTION	<input type="checkbox"/> 4. FIBERGLASS	<input type="checkbox"/> 9. CATHODIC PROTECTION		<input type="checkbox"/> 4. FIBERGLASS	<input type="checkbox"/> 9. CATHODIC PROTECTION	<input checked="" type="checkbox"/> 95. UNKNOWN	465
<input type="checkbox"/> 5. STEEL w/COATING		<input type="checkbox"/> 5. STEEL w/COATING			<input type="checkbox"/> 5. STEEL w/COATING			

VII. PIPING LEAK DETECTION (check all that apply) (A description of the monitoring program shall be submitted to the local agency.)

UNDERGROUND PIPING		ABOVEGROUND PIPING	
SINGLE WALL PIPING 464		SINGLE WALL PIPING 467	
PRESSURIZED PIPING (check all that apply):		PRESSURIZED PIPING (check all that apply):	
<input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.		<input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.	
<input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST		<input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST	
<input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1GPH)	<i>unknown</i>	<input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1GPH)	<i>unknown</i>
CONVENTIONAL SUCTION SYSTEMS		CONVENTIONAL SUCTION SYSTEMS (check all that apply)	
<input type="checkbox"/> 5. DAILY VISUAL MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPING INTEGRITY TEST (0.1 GPH)		<input type="checkbox"/> 5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM	
SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):		SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):	
<input type="checkbox"/> 7. SELF MONITORING		<input type="checkbox"/> 7. SELF MONITORING	
GRAVITY FLOW		GRAVITY FLOW (check all that apply):	
<input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)	<i>unknown</i>	<input type="checkbox"/> 8. DAILY VISUAL MONITORING	<i>unknown</i>
<input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)		<input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)	
SECONDARILY CONTAINED PIPING		SECONDARILY CONTAINED PIPING	
PRESSURIZED PIPING (check all that apply):		PRESSURIZED PIPING (check all that apply):	
10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (check one)		10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (check one)	
<input type="checkbox"/> a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS		<input type="checkbox"/> a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS	
<input type="checkbox"/> b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION		<input type="checkbox"/> b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION	
<input type="checkbox"/> c. NO AUTO PUMP SHUT OFF		<input type="checkbox"/> c. NO AUTO PUMP SHUT OFF	
<input type="checkbox"/> 11. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITH FLOW SHUT OFF OR RESTRICTION		<input type="checkbox"/> 11. AUTOMATIC LEAK DETECTOR	
<input type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.1 GPH)	<i>unknown</i>	<input type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.1 GPH)	<i>unknown</i>
SUCTION/GRAVITY SYSTEM		SUCTION/GRAVITY SYSTEM	
<input type="checkbox"/> 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS		<input type="checkbox"/> 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS	
EMERGENCY GENERATORS ONLY (check all that apply)		EMERGENCY GENERATORS ONLY (check all that apply)	
<input type="checkbox"/> 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS		<input type="checkbox"/> 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS	
<input type="checkbox"/> 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW SHUT OFF OR RESTRICTION		<input type="checkbox"/> 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST)	
<input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH)		<input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH)	
<input type="checkbox"/> 17. DAILY VISUAL CHECK		<input type="checkbox"/> 17. DAILY VISUAL CHECK	

VIII. DISPENSER CONTAINMENT

DISPENSER CONTAINMENT	<input type="checkbox"/> 1. FLDAT MECHANISM THAT SHUTS OFF SHEAR VALVE	<input type="checkbox"/> 4. DAILY VISUAL CHECK
DATE INSTALLED 468	<input type="checkbox"/> 2. CONTINUOUS DISPENSER PAN SENSOR + AUDIBLE AND VISUAL ALARMS	<input type="checkbox"/> 5. TRENCH LINER / MONITORING
	<input type="checkbox"/> 3. CONTINUOUS DISPENSER PAN SENSOR WITH AUTO SHUT OFF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS	<input type="checkbox"/> 6. NONE <i>unknown</i>

IX. OWNER/OPERATOR SIGNATURE

I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF OWNER/OPERATOR	DATE	470
NAME OF OWNER/OPERATOR (print)	TITLE OF OWNER/OPERATOR	472

Permit Number (For local use only)	473	Permit Approved (For local use only)	474	Permit Expiration Date (For local use only)	475
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STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A



COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 6 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 8 TEMPORARY SITE CLOSURE	

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME <i>Avis Rent A Car</i>		NAME OF OPERATOR <i>Avis Rent A Car</i>		
ADDRESS <i>1 Neil Armstrong Way</i>		NEAREST CROSS STREET <i>Airport Drive</i>	PARCEL # (OPTIONAL)	
CITY NAME <i>Oakland</i>	STATE <i>CA</i>	ZIP CODE <i>94607</i>	SITE PHONE # WITH AREA CODE <i>out of service</i>	
<input checked="" type="checkbox"/> BOX TO INDICATE	<input checked="" type="checkbox"/> CORPORATION	<input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> PARTNERSHIP	<input type="checkbox"/> LOCAL AGENCY DISTRICTS
	<input type="checkbox"/> COUNTY AGENCY	<input type="checkbox"/> STATE AGENCY	<input type="checkbox"/> FEDERAL AGENCY	
TYPE OF BUSINESS	<input type="checkbox"/> 1 GAS STATION	<input type="checkbox"/> 2 DISTRIBUTOR	<input type="checkbox"/> 3 FARM	<input type="checkbox"/> 4 PROCESSOR
	<input checked="" type="checkbox"/> 5 OTHER	<input checked="" type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS	# OF TANKS AT SITE <i>3</i>	E.P.A. I.D. # (optional) <i>CAC002551462</i>

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST) <i>Rogler Richard</i>	PHONE # WITH AREA CODE <i>(650) 616-0145</i>	DAYS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE
NIGHTS: NAME (LAST, FIRST) <i>Rogler Richard</i>	PHONE # WITH AREA CODE <i>(650) 616-0145</i>	NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME <i>Port of Oakland</i>	CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS <i>530 Water St.</i>	<input checked="" type="checkbox"/> BOX TO INDICATE	<input type="checkbox"/> INDIVIDUAL	<input checked="" type="checkbox"/> LOCAL AGENCY
CITY NAME <i>Oakland</i>	<input type="checkbox"/> CORPORATION	<input type="checkbox"/> PARTNERSHIP	<input type="checkbox"/> STATE AGENCY
	<input type="checkbox"/> COUNTY AGENCY	<input type="checkbox"/> FEDERAL AGENCY	
STATE <i>CA</i>	ZIP CODE <i>94607</i>	PHONE # WITH AREA CODE <i>(510) 627-1100</i>	

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER <i>Avis Rent A Car</i>	CARE OF ADDRESS INFORMATION <i>Care of: Richard Rogler</i>		
MAILING OR STREET ADDRESS <i>513 Eccles Ave Suite "A"</i>	<input checked="" type="checkbox"/> BOX TO INDICATE	<input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> LOCAL AGENCY
CITY NAME <i>South San Francisco</i>	<input checked="" type="checkbox"/> CORPORATION	<input type="checkbox"/> PARTNERSHIP	<input type="checkbox"/> STATE AGENCY
	<input type="checkbox"/> COUNTY AGENCY	<input type="checkbox"/> FEDERAL AGENCY	
STATE <i>CA</i>	ZIP CODE <i>94080</i>	PHONE # WITH AREA CODE <i>(650) 616-0145</i>	

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 739-2582 if questions arise.

TY (TK) HQ

V. LEGAL NOTIFICATION AND BILLING ADDRESS

Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING:

I. II. III.

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) <i>Dan Head Dan Head</i>	APPLICANT'S TITLE <i>American Construction Foreman</i>	DATE MONTH/DAY/YEAR <i>4-30-02</i>
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LOCAL AGENCY USE ONLY

COUNTY # <input type="text" value="00"/>	JURISDICTION # <input type="text" value="000"/>	FACILITY # <input type="text" value="00000"/>
LOCATION CODE - OPTIONAL	DENSUS TRACT # - OPTIONAL	SUPVISOR - DISTRICT CODE - OPTIONAL

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

STATE OF CALIFORNIA STATE WATER RESOURCES CONTROL BOARD UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM: 1 NEW PERMIT, 2 INTERIM PERMIT, 3 RENEWAL PERMIT, 4 AMENDED PERMIT, 5 CHANGE OF INFORMATION, 6 TEMPORARY TANK CLOSURE, 7 PERMANENTLY CLOSED ON SITE, 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: Station # AVIS Rent A Car Oakland Airport

I. TANK DESCRIPTION: A. OWNER'S TANK I.D.# UNKNOWN, B. MANUFACTURED BY: UNKNOWN, C. DATE INSTALLED (MO/DAY/YEAR) 1989, D. TANK CAPACITY IN GALLONS: 10,000

II. TANK CONTENTS: A. 1 MOTOR VEHICLE FUEL, 2 PETROLEUM, 3 CHEMICAL PRODUCT, 4 OIL, 80 EMPTY, 95 UNKNOWN, B. 1 PRODUCT, 2 WASTE, C. 1a REGULAR UNLEADED, 1b PREMIUM UNLEADED, 2 LEADED, 3 DIESEL, 4 GASAHOL, 5 JET FUEL, 6 AVIATION GAS, 7 METHANOL, 99 OTHER

III. TANK CONSTRUCTION: A. TYPE OF SYSTEM: 1 DOUBLE WALL, 2 SINGLE WALL, 3 SINGLE WALL WITH EXTERIOR LINER, 4 SECONDARY CONTAINMENT (VAULTED TANK), 95 UNKNOWN, 99 OTHER, B. TANK MATERIAL (Primary Tank): 1 BARE STEEL, 2 STAINLESS STEEL, 3 FIBERGLASS, 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC, 5 CONCRETE, 6 POLYVINYL CHLORIDE, 7 ALUMINUM, 8 100% METHANOL COMPATIBLE W/FRP, 9 BRONZE, 10 GALVANIZED STEEL, 95 UNKNOWN, 99 OTHER, C. INTERIOR LINING: 1 RUBBER LINED, 2 ALKYD LINING, 3 EPOXY LINING, 4 PHENOLIC LINING, 5 GLASS LINING, 6 UNLINED, 95 UNKNOWN, 99 OTHER, D. CORROSION PROTECTION: 1 POLYETHYLENE WRAP, 2 COATING, 3 VINYL WRAP, 4 FIBERGLASS REINFORCED PLASTIC, 5 CATHODIC PROTECTION, 91 NONE, 95 UNKNOWN, 99 OTHER, E. SPILL AND OVERFILL: SPILL CONTAINMENT INSTALLED (YEAR) 1989, OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) 1989

IV. PIPING INFORMATION: A. SYSTEM TYPE: A U 1 SUCTION, A U 2 PRESSURE, A U 3 GRAVITY, A U 99 OTHER UNKNOWN, B. CONSTRUCTION: A U 1 SINGLE WALL, A U 2 DOUBLE WALL, A U 3 LINED TRENCH, A U 95 UNKNOWN, A U 99 OTHER, C. MATERIAL AND CORROSION PROTECTION: A U 1 BARE STEEL, A U 2 STAINLESS STEEL, A U 3 POLYVINYL CHLORIDE (PVC), A U 4 FIBERGLASS PIPE, A U 5 ALUMINUM, A U 6 CONCRETE, A U 7 STEEL W/ COATING, A U 8 100% METHANOL COMPATIBLE W/FRP, A U 9 GALVANIZED STEEL, A U 10 CATHODIC PROTECTION, A U 95 UNKNOWN, A U 99 OTHER, D. LEAK DETECTION: 1 AUTOMATIC LINE LEAK DETECTOR, 2 LINE TIGHTNESS TESTING, 3 INTERSTITIAL MONITORING, 99 OTHER UNKNOWN

V. TANK LEAK DETECTION: 1 VISUAL CHECK, 2 INVENTORY RECONCILIATION, 3 VADOZE MONITORING, 4 AUTOMATIC TANK GAUGING, 5 GROUND WATER MONITORING, 6 TANK TESTING, 7 INTERSTITIAL MONITORING, 91 NONE, 95 UNKNOWN, 99 OTHER

VI. TANK CLOSURE INFORMATION: 1. ESTIMATED DATE LAST USED (MO/DAY/YR) 3-1-02, 2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING Residual GALLONS, 3. WAS TANK FILLED WITH INERT MATERIAL? YES NO X

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) Dan Head Dan Head American Construction DATE 4-30-02

LOCAL AGENCY USE ONLY: STATE I.D.#, COUNTY #, JURISDICTION #, FACILITY #, TANK #, PERMIT NUMBER, PERMIT APPROVED BY/DATE, PERMIT EXPIRATION DATE

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED. FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

STATE OF CALIFORNIA STATE WATER RESOURCES CONTROL BOARD UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM: 1 NEW PERMIT, 2 INTERIM PERMIT, 3 RENEWAL PERMIT, 4 AMENDED PERMIT, 5 CHANGE OF INFORMATION, 6 TEMPORARY TANK CLOSURE, 7 PERMANENTLY CLOSED ON SITE, 8 TANK REMOVED

OSR OR FACILITY NAME WHERE TANK IS INSTALLED:

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNERS TANK I.D.# Unknown B. MANUFACTURED BY: Unknown C. DATE INSTALLED (MO/DAY/YEAR) 1989 D. TANK CAPACITY IN GALLONS: 500 gallon

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.

A. 1 MOTOR VEHICLE FUEL, 2 PETROLEUM, 3 CHEMICAL PRODUCT, 4 OIL, 50 EMPTY, 95 UNKNOWN, 1 PRODUCT, 2 WASTE, 1a REGULAR UNLEADED, 1b PREMIUM UNLEADED, 2 LEADED, 3 DIESEL, 4 GASAHOL, 5 JET FUEL, 6 AVIATION GAS, 7 METHANOL, 99 OTHER (DESCRIBE IN ITEM D. BELOW) Waste oil C.A.S.#:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM: 1 DOUBLE WALL, 2 SINGLE WALL, 3 SINGLE WALL WITH EXTERIOR LINER, 4 SECONDARY CONTAINMENT (VAULTED TANK), 95 UNKNOWN, 99 OTHER. B. TANK MATERIAL (Primary Tank): 1 BARE STEEL, 2 STAINLESS STEEL, 3 FIBERGLASS, 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC, 5 CONCRETE, 6 POLYVINYL CHLORIDE, 7 ALUMINUM, 8 100% METHANOL COMPATIBLE W/FRP, 9 BRONZE, 10 GALVANIZED STEEL, 95 UNKNOWN, 99 OTHER. C. INTERIOR LINING: 1 RUBBER LINED, 2 ALKYO LINING, 3 EPOXY LINING, 4 PHENOLIC LINING, 5 GLASS LINING, 6 UNLINED, 95 UNKNOWN, 99 OTHER. IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES NO. D. CORROSION PROTECTION: 1 POLYETHYLENE WRAP, 2 COATING, 3 VINYL WRAP, 4 FIBERGLASS REINFORCED PLASTIC, 5 CATHODIC PROTECTION, 91 NONE, 95 UNKNOWN, 99 OTHER. E. SPILL AND OVERFILL: SPILL CONTAINMENT INSTALLED (YEAR) 1989 OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) 1989

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE: A U 1 SUCTION, A U 2 PRESSURE, A U 3 GRAVITY, A U 99 OTHER Unknown. B. CONSTRUCTION: A U 1 SINGLE WALL, A U 2 DOUBLE WALL, A U 3 LINED TRENCH, A U 95 UNKNOWN, A U 99 OTHER. C. MATERIAL AND CORROSION PROTECTION: A U 1 BARE STEEL, A U 2 STAINLESS STEEL, A U 3 POLYVINYL CHLORIDE (PVC), A U 4 FIBERGLASS PIPE, A U 5 ALUMINUM, A U 6 CONCRETE, A U 7 STEEL W/ COATING, A U 8 100% METHANOL COMPATIBLE W/FRP, A U 9 GALVANIZED STEEL, A U 10 CATHODIC PROTECTION, 95 UNKNOWN, A U 99 OTHER. D. LEAK DETECTION: 1 AUTOMATIC LINE LEAK DETECTOR, 2 LINE TIGHTNESS TESTING, 3 INTERSTITIAL MONITORING, 99 OTHER Unknown

V. TANK LEAK DETECTION

1 VISUAL CHECK, 2 INVENTORY RECONCILIATION, 3 VADOZE MONITORING, 4 AUTOMATIC TANK GAUGING, 5 GROUND WATER MONITORING, 6 TANK TESTING, 7 INTERSTITIAL MONITORING, 91 NONE, 95 UNKNOWN, 99 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR) 3-1-02 2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING Residual GALLONS 3. WAS TANK FILLED WITH INERT MATERIAL? YES NO

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) Dan Head Dan Head American Construction DATE 5-6-02

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.# COUNTY # JURISDICTION # FACILITY # TANK # PERMIT NUMBER PERMIT APPROVED BY/DATE PERMIT EXPIRATION DATE

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED. FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

CITY OF OAKLAND
FIRE PREVENTION BUREAU
250 Frank Ogawa Plaza, Ste. 3341
OAKLAND, CALIFORNIA 94612-2032
(510) 238-3851

APPLICATION for PERMIT to INSTALL, REMOVE or REPAIR TANKS
In the CITY OF OAKLAND

Request Submittal Date: 4/30/02

PLEASE CIRCLE APPROPRIATE ACTIONS: Application is hereby made for permit to:

(a) Remove (b) Install (c) Repair (d) Modify (e) Abandon/Close-in Place **A**

(a) Gasoline (b) Fuel oil (c) Diesel (d) waste oil tank(s) and excavate, commencing:

(a) four feet inside the curb line*; (b) inside the property line; (c) aboveground; (d) underground tank(s)
*inside curb line, please attach copy of sidewalk/excavation permit from PLANNING AND BUILDING

on the SW side of Neil Armstrong St./Ave. 130 feet SW of Neil Armstrong St./Ave.

Site Address: 1 Neil Armstrong Way Present storage

Owner: AVIS Address 513 Eccles Ave Ste A Phone (650) 616-0145
South San Francisco, CA 94080

Applicant: American Construction Address 613 First St. Ste. 23 Phone (925) 516-5800
Brentwood CA 94583

Sidewalk surface to be disturbed Number of Tanks 3 Capacity _____ Gallons ea.

Remarks 1-15K UST Gasoline, 1-500 Gal. Waste oil, 1 Above Ground tank
Size unknown
480 Gallon

Signature Dan Head

PLEASE ATTACH/SUBMIT: (All applicants must have a City Business License Permit)

- (2) Copies of Closure Plans for underground tank removal
- (2) Sets of plans and (1) copy of specifications for above ground tank removal
- (2) Sets of plans and (2) sets of application packets for underground tank installation/modifications
- (2) Sets of plans for aboveground tank installation and specification
- copy or prepare to show Planning and Building approval for aboveground tank removal and tank repair

REVIEWED
OAKLAND FIRE DEPARTMENT
 BY: [Signature]
 DATE: 21 May 02

NOTE: FOR TANK INSTALLATION PLEASE SUBMIT THIS APPLICATION FORM ALONG WITH A
APPLICATION FOR PERMIT TO OPERATE, MAINTAIN OR STORE ALL INSPECTIONS REQUIRE
FOR OFFICE USE ONLY 30-HOUR NOTICE

Permit No. 31-02
Copies to: Electrical Inspection

Amt. Recv'd \$760 Date Issued: _____
Ck# 30615 Cash _____
Receipt# 841085 Recv'd by: MEL

**City of Oakland, Fire Department, Office of Emergency Services
Hazardous Materials Program
APPLICATION FOR UNDERGROUND TANK REMOVAL**

FACILITY	Project Contact & Phone # <i>Jay Baptista - Project Manager RHL Design Group (707) 765-1660</i>			
	Facility Name <i>Avis Rent A Car - Oakland Airport</i>		Phone# <i>Not in Service</i>	
	Address <i>1 Neil Armstrong Way</i>			
	Cross Street <i>Airport Drive</i>			
	Owner/Operator <i>Avis Car Rental</i>		Phone# <i>(650) 616-0145</i>	
CONTRACTOR	Contractor Name <i>American Construction</i>		Phone# <i>(925) 516-5800</i>	
	Contractor Address <i>613 First St. #23 Brentwood CA 94583</i>		CA License # <i>702214</i>	
	Hazardous Waste Certified: (Qualifying license category <i>A HAZ</i>) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Class <i>A HAZ</i>	
	City of Oakland Business Tax License # <i>1622714</i>		Workers Comp# <i>1658225-01</i>	
	Does this site have a leaking UST (or did it have a leaking tank system?)		Yes <input type="checkbox"/> No <input type="checkbox"/>	
TANKS	State Tank ID#	Tank Size	Material That Was Stored	Proposed Removal Date
	39-	<i>15,000 Gallon</i>	<i>Gasoline</i>	<i>6-1-02</i>
	39-	<i>500 Gallon</i>	<i>Waste oil</i>	<i>6-1-02</i>
	39-	<i>Above Ground Unknown</i>	<i>Motor Oil</i>	<i>6-1-02</i>
	39-	<i>480 Gallons</i>		
	39-			
	39-			
PLAN	APPROVED		DISAPPROVED	
	PLAN REVIEWER'S SIGNATURE		DATE OF APPROVAL	

RECEIVED
OAKLAND FIRE DEPARTMENT
DATE: *4/16/02*
BY: *[Signature]*

APPLICANT MUST PERFORM ALL WORK IN ACCORDANCE WITH CITY OF OAKLAND ORDINANCES, STATE LAWS, AND RULES AND REGULATIONS OF THE CITY OF OAKLAND FIRE SERVICES AGENCY. OWNER OR LICENSED AGENT'S SIGNATURE CERTIFIES THE FOLLOWING: I CERTIFY THAT IN THE PERFORMANCE OF THE WORK FOR WHICH THIS INSTALLATION PLAN IS ISSUED, I SHALL NOT EMPLOY ANY PERSON IN SUCH A MANNER AS TO BECOME SUBJECT TO WORKER'S COMPENSATION LAWS OF CALIFORNIA. CONTRACTOR'S HIRING OR SUBCONTRACTING SIGNATURE CERTIFIES THE FOLLOWING: I CERTIFY THAT IN THE PERFORMANCE OF THE WORK FOR WHICH THIS INSTALLATION PLAN IS ISSUED, I SHALL EMPLOY PERSONS SUBJECT TO WORKER'S COMPENSATION LAWS OF CALIFORNIA.

APPLICANT'S SIGNATURE *Dan Head* TITLE: *Foreman* DATE: *4-16-02*

INDICATE THE RESPONSIBLE PARTY TO BE BILLED FOR ADDITIONAL FSA/OES STAFF TIME EXPENDED BEYOND THE HOURS COVERED BY THE INITIAL DEPOSIT AMOUNT. THE PARTY MUST ACKNOWLEDGE THIS RESPONSIBILITY FOR THE ADDITIONAL BILLING BY SIGNATURE AND DATE BELOW.

NAME American Construction

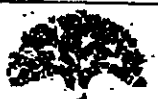
MAILING ADDRESS 613 First St. #23 Brentwood CA 94513
STREET CITY, STATE, ZIP

DAY PHONE NUMBER (925) ~~516-5800~~ 516-5800
area code phone #

SIGNATURE Don Head

DATE 4-16-02

City Of Oakland
FIRE PREVENTION BUREAU
 250 Frank Ogawa Plaza, Ste. 3341
 Oakland California 94612-2032
 510-238-3851



*Permit To Excavate And Install, Repair,
 Or Remove Inflammable Liquid Tanks*

Oakland, California May 31, 2002
 Tank Permit Number: 31-02

Permission Is Hereby Granted To:

Remove gasoline & waste oil Tank And Excavate Commencing: Feet Inside: property Line.

On The: 130 feet SW of Neil Armstrong Way

Site Address: 1 Neil Armstrong Way

Present Storage: Gasoline & Waste Oil

Owner: AVIS

Address: 513 Eccles Ave., #A, South San Francisco, 94080 **Phone:** (650) 616-0145

Applicant: American Construction

Address: 613 1st St., Brentwood, CA, 94583 **Phone:** (925) 516-5800

Dimensions Of Street (sidewalk) Surface To Be Disturbed : X **No. Of Tanks** 3 **Capacity** see below **Gallons, Each**

Remarks One (1) 15,000 gallon underground tank, one (1) 500 gallon underground tank & one (1) 480 gallon aboveground tank.

This Permit Is Granted In Accordance With Existing City Ordinances. Owner Hereby Agrees To Remove Tanks On Discontinuance Of Use Or When Notified By The City Authorities When Installing, Removing Or Repairing Tanks, No Open Flame To Be On Or Near Premises.

CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Type Of Inspection:

Approved: Sandra L Smith for
Fire Marshal

Inspected And Passed On: _____
By: _____

UST/AST Installations/modifications: _____

Inspection Fee Paid: \$ 760.00

Pressure Test: Inspected By: _____ **Date:** _____

Primary Piping Test: Inspected By: _____ **Date:** _____

Received By: ck#30615 rec#841085 McC

Secondary Containment & Sump Testing: _____

Inspected By: _____ **Date:** _____

Final: Inspected By: _____ **Date:** _____

Before Covering Tanks, Above Certification Must Be Signed When Ready For Inspection Notify Fire Prevention Bureau 238-3851

THIS PERMIT MUST BE LEFT ON THE WORK SITE AS AUTHORITY THEREFORE

Oct-24-02 01:28P

P.01

TANK CLEANING CERTIFICATE

No: 543845

TANK OWNER

AVIS
6 Sylvan
Parsippany New Jersey 07054

HAZARDOUS WASTE HAULER

Clearwater Environmental Mgmt
P.O. Box 2407
Union City, CA 94587
EPA #: CAR000007013

SITE

AVIS Facility
Neil Armstrong Way & Airport Dr,
Oakland CA

TSDF

Alviso Independent Oil
5002 Archer Street
Alviso CA, 95002
EPA # CAL000161743

STATE IDENTIFICATION NUMBER: 543845

The tank has been inspected and:

All tanks, piping and appurtenances shall be drained and shall be free of product, sludge, rinsate, and debris to the extent that no material can be poured or drained from them when held in any orientation (e.g. tilted, inverted, etc.);

Tanks shall be free of product, sludge, rinsate, and debris, except that residual staining (i.e. light cracks, crevices, and pits may be present. A thorough visual inspection of the tank interior and exterior shall be performed to confirm this.

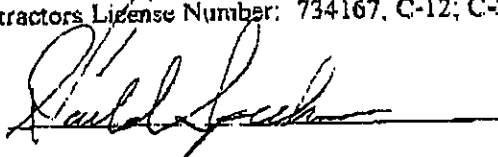
If the tanks(s) previously contained flammable/combustible material having the potential to generate flammable vapors, the cleaning standard shall be zero percent of the Lower Explosive Limit (LEL) for the material(s) previously held and oxygen and LEL readings, measured at the top, center, and bottom of the tank shall be taken with the properly calibrated combustible gas indicator (CGI). These readings shall be recorded on the tank cleaning certificate (see below)

LEL		Oxygen
<u>0</u>	Top	<u>20.7</u>
<u>0</u>	Center	<u>20.9</u>
<u>0</u>	Bottom	<u>20.9</u>

This statement certifies that the tank has been visually confirmed as meeting the standards specified in sections B-3 part (a) through B-3 (c) of the required tank cleaning procedures for above ground tanks.

Certificate prepared by Speelman Excavation
18010 Arrigone Way, Linden CA 95236
(209)887-9657
Contractors License Number: 734167, C-12; C-21; A; HAZ

By:



Date:

July 12, 2002



BAY AREA AIR QUALITY MANAGEMENT DISTRICT
 939 ELLIS STREET
 SAN FRANCISCO, CALIFORNIA 94109
 (415) 771-6000

REGULATION 8, RULE 40 NOTIFICATION FORM

- Check Removal or Replacement of Tanks
 Excavation of Contaminated Soil

SITE INFORMATION

Site Address <u>1 NEIL ARMSTRONG WAY</u>	
City, State <u>OAKLAND, CA</u>	Zip <u>94607</u>
Owner Name <u>AVIS RENT A CAR</u>	
Specific location of project <u>1 NEIL ARMSTRONG WAY - FUEL AREA</u>	
<p>Tank Removal</p> <p>Scheduled startup date <u>JULY 15, 2002</u></p> <p>Vapors removed by:</p> <p><input type="checkbox"/> Water wash</p> <p><input checked="" type="checkbox"/> Vapor freezing (CO²)</p> <p><input type="checkbox"/> Ventilation</p> <p>Indicate below if an A/C was obtained for tank replacement:</p> <p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, A/C or P/O # _____</p>	<p>Contaminated Soil Excavation</p> <p>Scheduled Startup Date <u>JULY 15, 2002</u></p> <p>Stockpiles will be covered? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Indicate below the method used to comply with Regulation 8, Rule 40, Section 402.4:</p> <p>Check (✓) 8-40-301 <input checked="" type="checkbox"/> 8-40-302 <input type="checkbox"/> (permit required)</p> <p>A/C or P/O # _____</p> <p>A/C = Authority to Construct P/O = Permit to Operate</p>
<p>What other public agency have you notified (e.g., Fire District, Hazardous Materials Department, City or County)? <u>7253</u></p> <p>Agency <u>OAKLAND FIRE SERVICES</u> Contact <u>HERNAN GOMEZ</u> Phone # <u>(510) 238-3851</u></p>	

CONTRACTOR INFORMATION

Name <u>AMERICAN CONSTRUCTION & ENVIRONMENTAL SERVICES INC.</u>	Contact <u>B. NEFF</u>
Address <u>613 FIRST STREET STE 23</u>	Phone <u>(925) 516-5800</u>
City, State, Zip <u>BRENTWOOD CA 94513</u>	

CONSULTANT INFORMATION (if applicable)

Name <u>MFG ENVIRONMENTAL INC.</u>	Contact <u>KEN JOHNSON</u>
Address <u>180 HOWARD ST. STE 200</u>	Phone <u>(415) 495-7110</u> FAX <u>(415) 495-7110</u>
City, State, Zip <u>SAN FRANCISCO, CA 94105</u>	

FOR OFFICE USE ONLY

Date Received Fax:	Date Postmarked:
Inspector No.:	Date: _____ By: _____
Update: Contact Name	Date: _____ By: _____
Update: Contact Name	Date: _____ By: _____

(415) 928-0338

PAVED
7/1/02

AVIS



Construction & Demolition Debris Waste Reduction and Recycling Plan (WRRP)

CITY OF OAKLAND

This form must be completed for the following types of projects:

- All New Construction (non-residential & residential)
- Demolition (non-residential and apartment house)
- Addition/Alteration (non-residential and apartment house) with construction valuation \$50,000 or more

NOTE: Building permits for affected projects will not be issued without an approved WRRP. Allow 3-5 business days for WRRP processing. A separate WRRP is required for each building permit issued.

Submit with Permit Application to: Building Permit Counter, 250 Frank H. Ogawa Plaza, 2nd Floor. Or fax to (510) 238-2263. If you have questions, please call (510) 238-SAVE.

Application/Permit #: B0200525 / B0200527 or R

Project Address:(Include floor, suite, etc.): 11 Neil Armstrong Way

Contact Name: Dan Head Title: Foreman

Company: American Construction

Contact Mailing Address: 613 First St. #23 Brentwood

Phone: (925) 516-5800 Fax: (925) 516-5558 Email: _____

1. Type of Project: New Construction Addition/Alteration Demolition
2. Type of Building: Non-residential Single Family Residence Apartment
3. Tenant Improvement: Yes No
4. Size of Project 2400 sq. ft Project Valuation \$ 50000
5. Estimated Start Date 6/1/02 Estimated Completion Date 7/31/02
6. Briefly describe project (e.g. renovate warehouse, remodel office, etc.) and state how waste materials will be handled at your job site to ensure salvage/reuse or recycling. Also explain how you will inform workers/sub-contractors of your Waste Reduction and Recycling Plan requirements and ensure their participation.

Demolish Building at site. Materials will be taken to local recycling facility.

For City Use Only:

Permit No. _____ Applic. Filed / / WRRP Submitted 4/30/02

Project Name _____ Permit Counter Staff Initials _____ OT

ESD Staff Initials _____ Received 4/30/02 Approved 4/30/02 Type of Assistance Consult
PTS 104 X 305 X DB / / Applicant Contacted / / Time Spent 15

- 50% Diversion
- Approved
- Good Cause
- Conditional Approval
- Non-Attainment
- Not Approved
- Hold Placed / /
- Hold Removed / /

Requirement: Reduce quantity of materials disposed at landfills by 50% or more (determined by weight)

Column A - List estimated quantity of waste for each material type (in tons). To convert volume (e.g. cubic yards, square feet) to tons, use the Materials Conversion Worksheet provided in your packet.

Columns B, C, D - List estimated quantities to be reused, recycled, or disposed.

Column E - State the name of all vendors or facility you plan to use to reuse, recycle or dispose of material listed. See example below for cases where more than one facility was used for a particular material type.

Column Totals - Add up all quantities listed in Column A. Do the same for Columns B, C and D.

Recycled Mixed Debris - This category is only for mixed debris loads that will be taken to a recognized facility for recycling (See list of Mixed Debris Recycling Facilities insert in your C&D Packet). Use the Materials Conversion Worksheet to calculate the quantity of mixed materials that can be credited towards recycling. Receipts must be provided with your Summary Report (due at project completion) to receive recycling credit.

Application/Permit # B0200524 / B0200525 Project Address: 1 Neil Armstrong Way

Proposed Material Handling Methods - Indicate quantities (in tons only) for each material listed.

Material Type	A Total Quantity Discarded	B Salvage Or Reuse	C Recycling	D Disposal	E Proposed Destination(s)
Example: Cardboard	2 tons		1.5	5	(Recycle) Davis St. Recycling Center (Disposal) Davis St. Transfer Station
Asphalt & Concrete	100		100		
Brick/ Masonry/Tile					
Cabinets, doors, fixtures, windows (circle all that apply)					
Carpet					
Carpet Padding/Foam					
Cardboard					
Ceiling Tile (acoustic)					
Drywall (Used)					
Drywall (New, unpainted sheets or scrap)					
Landscape Debris (brush, trees, stumps, etc.)					
Scrap Metal					
Unpainted wood & pallets					
Garbage/Trash					
Other (do not include dirt)					
Recycled Mixed Debris (See instructions above)	100		60	40	Vasco Rd.
Column Totals	^A 200	^B	^C 160	^D -	^E

Fill in the blanks below to determine if your plan meets the City's requirement of reducing project waste by 50% or more.

Column Totals B 0 + C 160 = 160 ÷ A 200 = 80 x 100 = 80 %

Is the percentage listed in #7 greater than or equal to 50%? YES NO

If NO, explain why _____

Print Name: Dan Head Signature: Dan Head Date: 1/31/02

APPENDIX B

Manifests for Disposal of Site Wastes

Underground Storage Tanks

UNIFORM HAZARDOUS
WASTE MANIFEST

CALIFORNIA DEPT OF PUBL RES

1. Generator Name and Mailing Address
513 E. 1st St
MILLS POND AREA
SANTA FE SPRINGS, CA 92676

2. Manifest Number
21439035

3. Shipper Name
CIRCUITRY

4. Transporter Name
CARRIAGEWAY

5. Receiver Name and Mailing Address
ECL
355 PARK BLVD
RICHMOND, CA 94801

6. EPA ID Number
EPA-336

7. US DOT Description (including proper shipping name, hazard class, and ID number)

7a	7b	7c	7d
Code	Type	Quantity	Unit
001	TP	10000	P
001	TP	10000	P

8. Additional Descriptors for Materials Listed Above
TRUCK NO 57861-29862

9. Handling Code for Material Listed Above
99

10. Special Handling Instructions and Additional Information
Empty, no product, MARK HANDED 510 426-1740
ERG 171
ECL # 5043170

11. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this manifest are fully and accurately described above. I have signed this manifest and the attached copies, and I am in full compliance with the provisions of the applicable federal, state and local laws, regulations, and orders.

If I am a large quantity generator, I certify that I have a system in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically achievable and that I have satisfied the applicable standards of treatment, storage, or disposal facility used in the which minimizes the greatest and feasible extent to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize the waste generated and certify that I have made reasonable efforts that it is not hazardous to me and that I can dispose of it.

12. Generator's Name and Signature
Name/Typed Name: [Signature]
Signature: [Signature]

13. Transporter's Name and Signature
Name/Typed Name: [Signature]
Signature: [Signature]

Date: 07/16/02

14. Transporter's Name and Signature
Name/Typed Name: [Signature]
Signature: [Signature]

15. Receiver's Name and Signature
Name/Typed Name: [Signature]
Signature: [Signature]

Date: 07/16/02

16. Discrepancy/Exception Section

17. Facility Control or Generator Certification of receipt of hazardous waste by the receiver as noted in item 15

Name/Typed Name: James Wilcox

Signature: James Wilcox

Date: 07/16/02

DO NOT WRITE BELOW THIS LINE.

EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-9302. HAZARDOUS WASTE, CALIFORNIA, CASE # 02-000000-000000

DAY OR NIGHT
TELEPHONE
(510) 295-1393

CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard - Richmond, California 94801

NO. 37710

CUSTOMER
JOB NO. <u>5243186</u> <u>6243186</u>
SPEELMAN

FOR: ECOLOGY CONTROL IND. TANK NO. 28001

LOCATION: RICHMOND, CA DATE: 10/1 TIME: 12:38.38

TEST METHOD VISUAL GASTECHN7314 SMPM LAST PRODUCT UNLEADED GAS

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 12 K SAFE FOR FIRE
CONDITION _____

REMARKS: (OXYGEN IS 20% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES
HERBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED,
AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY
ECOLOGY CONTROL INDUSTRIES HAD THE APPROPRIATE PERMIT FOR, AND HAS ACCEPTED
THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the inspector, the residues are not capable of producing a higher concentration than permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

[Signature] REPRESENTATIVE TITLE [Signature] INSPECTOR

DAY OR NIGHT
TELEPHONE
(810) 295-1393

CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 37783

CUSTOMER
JOB NO. 6240106
SPEELMAN

FOR: ECOLOGY CONTROL INDUSTANK NO. 29862

LOCATION: RICHMOND, CA DATE: 10/3/2002 TIME: 2:27:18

VISUAL GASTECH/1314 3MPW

TEST METHOD

LAST PRODUCT

USED OIL

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 500 CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.8% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES
HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED,
AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY
ECOLOGY CONTROL INDUSTRIES HAS THE APPROPRIATE PERMITS FOR AND HAS ACCEPTED
THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration than permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

James Wilson
REPRESENTATIVE

TITLE

[Signature]
INSPECTOR

UST Liquids and Rinse Water

Oct-24-02 01:28P

P.02



CLEARWATER ENVIRONMENTAL MANAGEMENT, INC.

P.O. Box 2407 UNION CITY, CA 94587-2407
 (800) 499-3675 FAX (510) 476-1786
 CAR 000 007 013 WE ACCEPT VISA & MASTERCARD

Bill of Lading
 Invoice # **61185**

Date 2-15-02

BILLING INFORMATION **JOB SITE**

NAME <u>Sullivan Excavation</u>			NAME <u>Avi's Facility</u>			PO #	CASH	CHECK
ADDRESS <u>18010 ARRIGONE WAY</u>			ADDRESS <u>1121 Broadway St Hercules</u>			CUSTOMER EPA ID # <u>CA2006020064</u>		
CITY <u>Livermore Ca</u>	STATE <u>CA</u>	ZIP <u>94556</u>	CITY <u>Oakland Ca</u>	STATE	ZIP	PROFILE #		
PHONE NO. <u>(209) 9936694</u>			PHONE NO. ()			CUSTOMER ID NO.		

PRODUCT	PROPER SHIPPING DESCRIPTION	WASTE CODE	MANIFEST NUMBER	QUANTITY	UNITS	PRICE	AMOUNT
Used Oil, Non-RCRA Hazardous Waste, Liquid		221					
Used Automotive Antifreeze, Non-RCRA Hazardous Waste, Liquid		134					
Oily Water Non RCRA Hazardous Waste Liquid		223	20816021	900	6	.75	675 ⁰⁰
Non RCRA Hazardous Waste Solid							
Oil Contaminated Debris / Soil							
Waste Combustible Liquid nos 3 UN1993, PG III							
Non Hazardous Waste Liquid							
Non Hazardous Waste Solid							
Transportation Charges				4	HRS	78 ⁵⁰	314 ⁰⁰
Washout Charges							
Drained Used Oil Filters							
Empty Drums							
Additional Labor							
Pressure Washer							
Other:							

TOTAL 989⁰⁰

DISPOSAL/RECYCLING FACILITY:

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> Alcon Environmental Co
1000 Alcon Street, Alameda, CA
CAL 090 101 747, 4102
(510) 797 4611 | <input type="checkbox"/> McKinnock Waste Treatment Site
600 331 WY 46 West, Alameda CA
CAL 090 638 314 4329
(510) 760 7588 | <input type="checkbox"/> L2R Environmental
3000 E 24th Street, Vallejo, CA
(707) 438 093 094, 40320
(707) 248-8100 |
| <input type="checkbox"/> Olga Environmental Services
120 Hercules Blvd, Hercules, CA
CAL 090 022 148, 4102
(510) 255-6001 | <input type="checkbox"/> Seppert Environmental
178 Snape Blvd, Redwood City, CA
CAL 090 029 058, 4102
(415) 364-9110 | <input type="checkbox"/> Cymatica Free Recycling
3520 Franklin Ave., Union City, CA
(510) 481 0277, 44507 |
| <input type="checkbox"/> Unimemo Airflow
7930 N. Alameda Blvd., Colton, CA
CAL 090 934 381, 4102
(510) 571 0000 | <input type="checkbox"/> Freeman Oil
6800 Smith Ave., Newark, CA
CAL 090 007 410 4400
(510) 728 4100 | |

NET 10 DAYS

I hereby certify that all information provided in this bill of lading is true and correct and that the waste is as described. All relevant information regarding known or suspected hazardous waste is provided. Clearwater transports all wastes in facilities which are properly permitted and licensed to accept these wastes.

DRIVER SIGNATURE Paul Cavacino

GENERATOR SIGNATURE [Signature]

APPENDIX C

Oakland Fire Department Inspection Report

**OAKLAND FIRE DEPARTMENT, OES
UNDERGROUND STORAGE TANK CLOSURE/REMOVAL FIELD INSPECTION REPORT**

Site Address: <i>1101 Armstrong Ave</i>	Name of Facility: <i>Avis Rental</i>
Inspector: <i>K. Martin</i>	Contact on site: <i>Christopher B Spill</i>
Date and Time of Arrival: <i>10:57 16 July 02</i>	Contractor/Consultant: <i>American Construction</i>

General Requirements	Yes	No	N/A
Approved closure plan on site.	✓		
Changes to approved plan noted.	✓		
Residuals properly stored/transported.	✓		
Receipt for adequate dry ice noted.	✓		

General Requirements	Yes	No	N/A
Site Safety Plan properly signed.	✓		
40B:C fire extinguisher on site.	✓		
"No Smoking" signs posted.	✓		
Gas detector challenged by inspector.	✓		

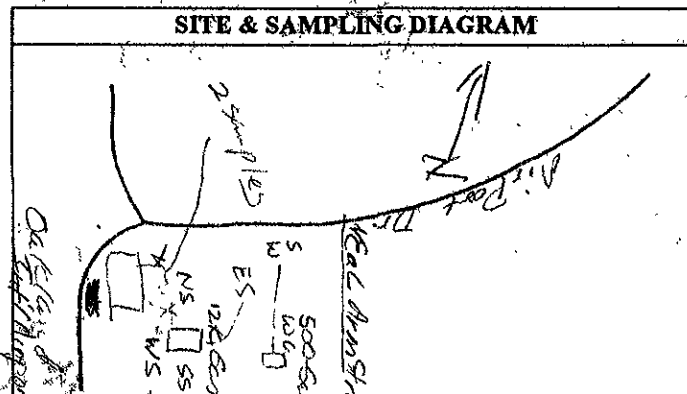
Tank Observations	T #1	T #2	T #3	T #4
Tank Capacity (gallons)	<i>12K</i>	<i>0.5K</i>		
Material last stored	<i>Gas</i>	<i>NO</i>		
Dry ice used (pounds)	<i>350</i>	<i>50</i>		
Combustible gas concentration as %LEL. (Note time & sampling point)				
(1)	<i>0</i>	<i>0</i>		
(2)				
(3)				
Oxygen concentration as % volume: (Note time & sampling point.)				
(1)	<i>8.5</i>	<i>4.4</i>		
(2)				
(3)				
Tank Material				
Wrapping/Coating, if any				
Obvious holes?				

Tank Observations	T #1	T #2	T #3	T #4
Obvious corrosion?	N	N		
Obvious odors from tank?	N	N		
Seams intact?	Y	Y		
Tank bed backfill material	Y	Y		
Obvious discoloration?	N	N		
Obvious odors ex tank bed?	N	N		
Water in excavation?	Y	Y		
Sheen/product on water?	Y	N		
Tank tagged by transporter?	Y	Y		
Tank wrapped for transport?	Y	N		
Tank plugged w/ vent cap?	<i>11:15</i>	<i>12:15</i>		
Date/time tank hauled off?				
No. of soil samples taken?	4	2	2	
Depth of soil samples (ft. bgs)	11	7	2	

Piping Removal	Yes	No	N/A
All piping removed hauled off w/ tanks?	✓		
Obvious holes on pipes?	✓		
Obvious odors from pipes?		✓	
Obvious soil discoloration in piping trench?		✓	
Obvious odors from piping trench?		✓	
Water in piping trench?		✓	
Number & depth of soil samples from piping trench?			
Number & depth of water samples from piping trench?			

General Observations	Yes	No	N/A
Leak from any tank suspected?		✓	
"Leak Report" form given to the operator?		✓	
Obviously contaminated soil excavated?		✓	
Soil stockpile sampled?	✓		
Stockpile lined AND covered?	✓		
Water in excavation sampled?	✓		
Number/depth of water samples taken?	2		
All samples properly preserved for transport?	✓		

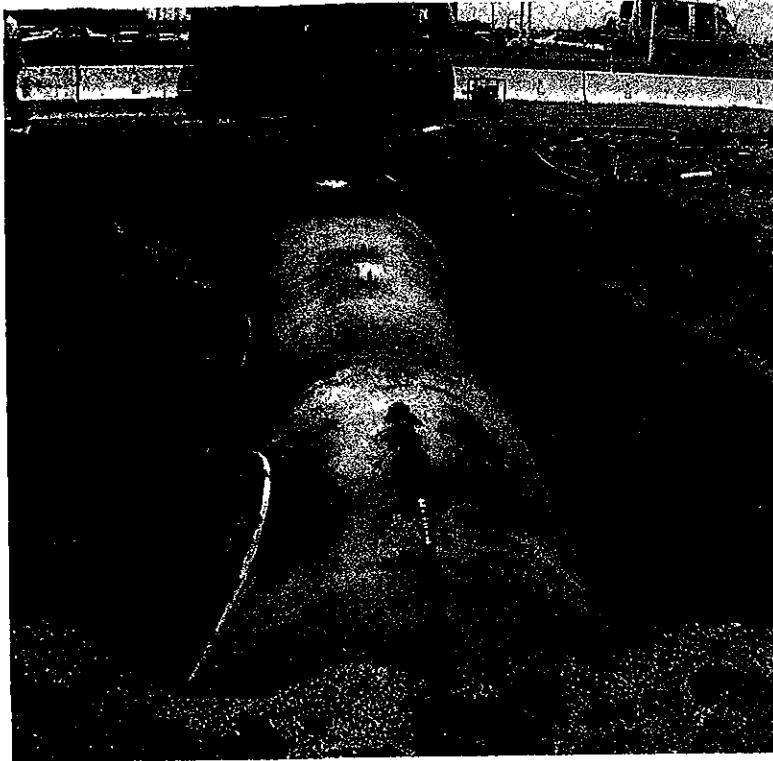
Additional Observations	Yes	No	N/A
Soil/water sampling protocols acceptable?	✓		
Sampling "chain of custody" noted?	✓		
Tank pit filled in or covered?		✓	
Tank pit fenced or barricaded?	✓		
Transporter a registered HW hauler?	✓		
Uniform HW Manifest completed?	✓		
Contractor/Consultant reminded of complete UST Removal Report due within 30 days?	✓		
Date/Time removal/closure operations completed?			
OT hours or additional charges due from contractor?			



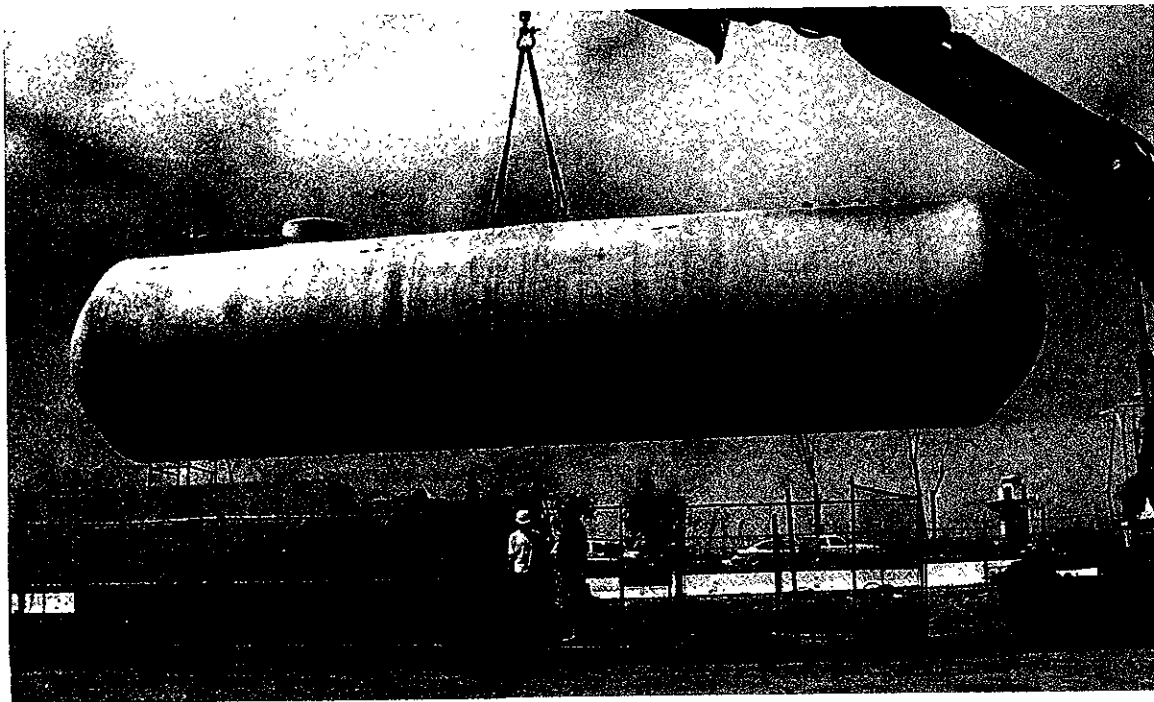
Notes/Comments: Gas UST - 13' to Bottom → USTIE
 ENCORE (NO UST - 8' to Bottom) 4 Side Wall Samples @ 11'
 Piping trench sampled every 20' 2 soil sample @ 1'
 Main file 214 33 035
 Clear Water → ECI
 Richard Rogler

APPENDIX D

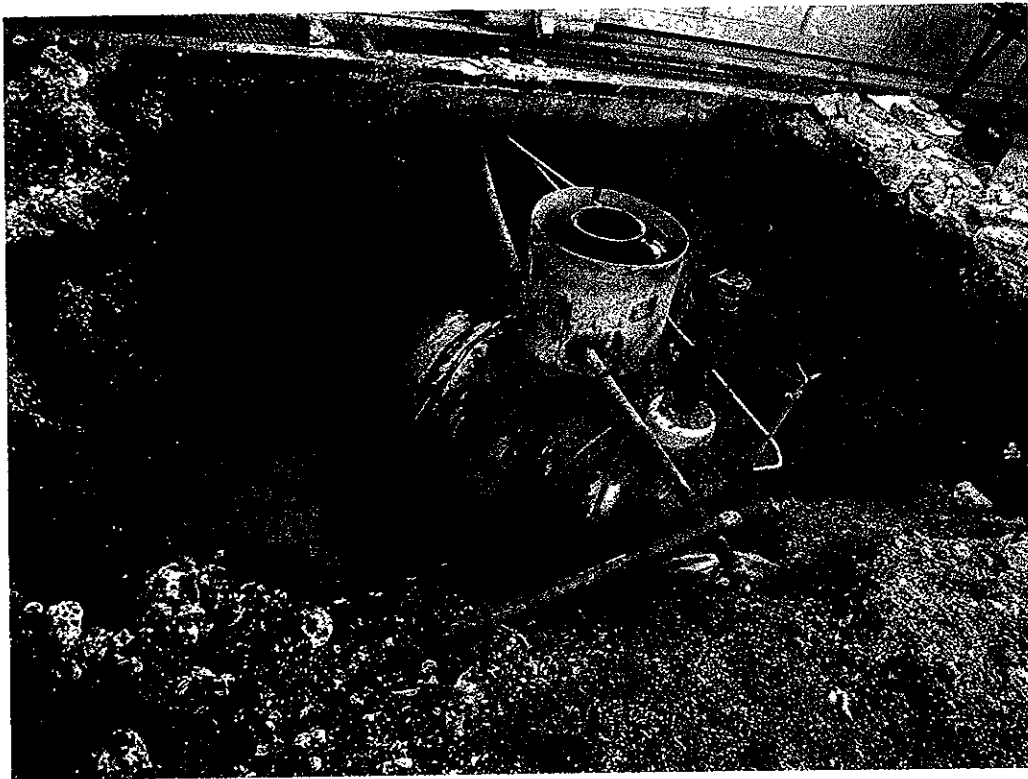
Site Photographs



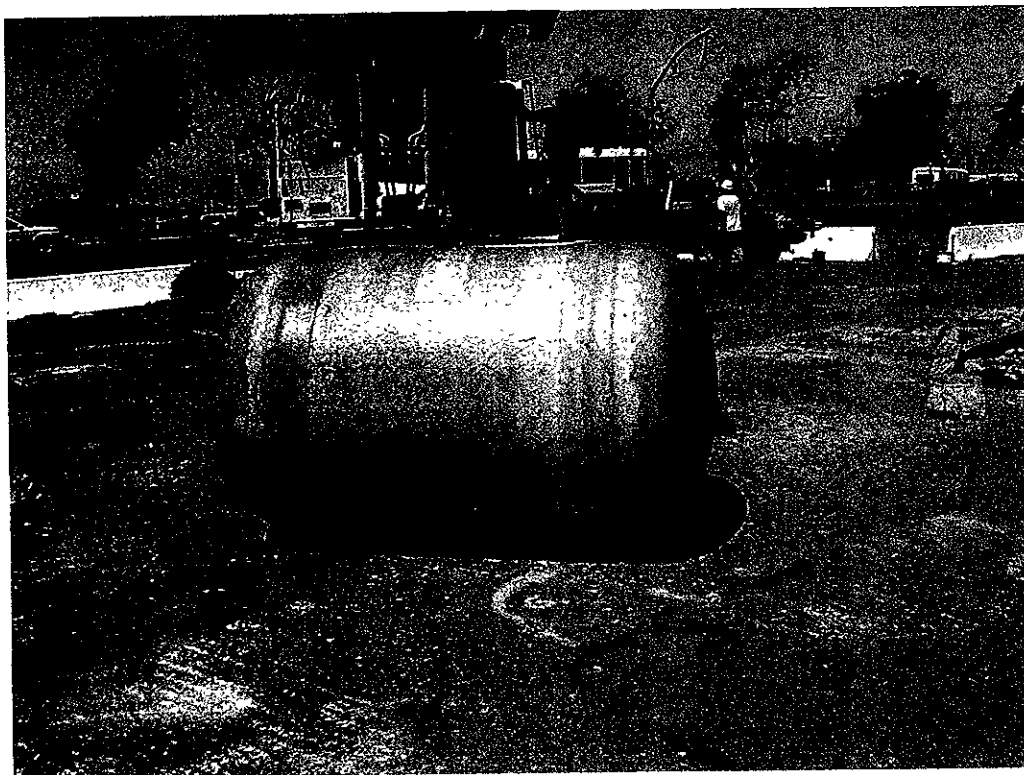
Photograph 1 – Preparation of a 12,000-gallon Gasoline UST for Removal



Photograph 2 – Removal of a 12,000-gallon Gasoline UST for Inspection



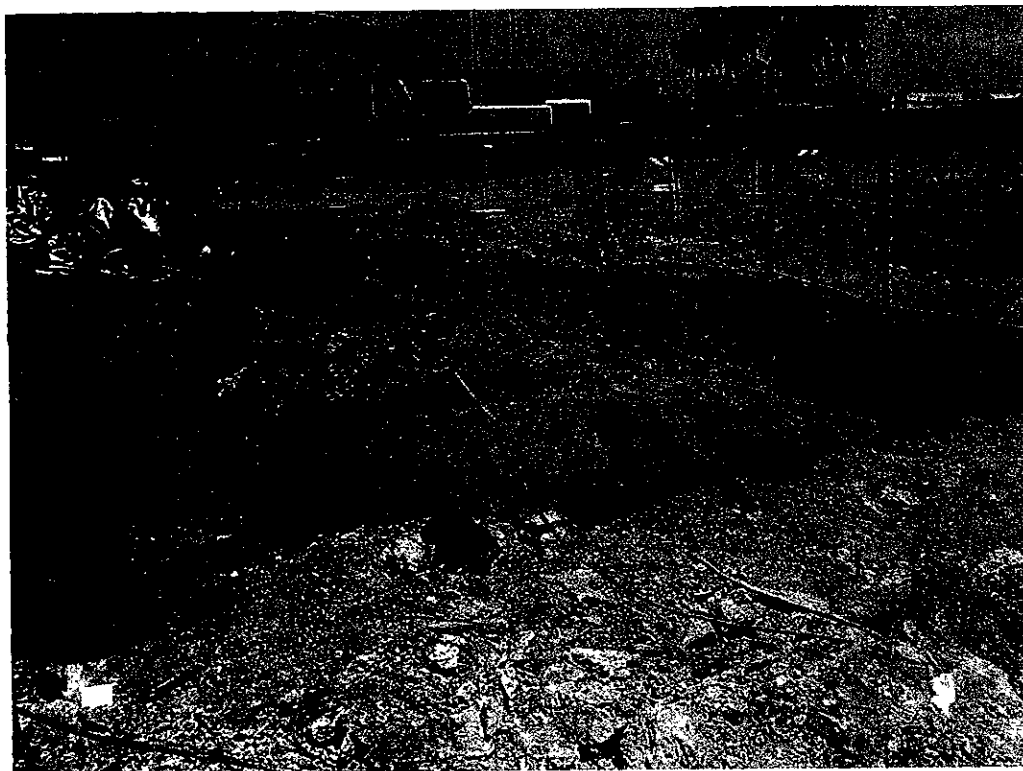
Photograph 3 – Preparation of a 550-gallon Waste Oil UST for Removal



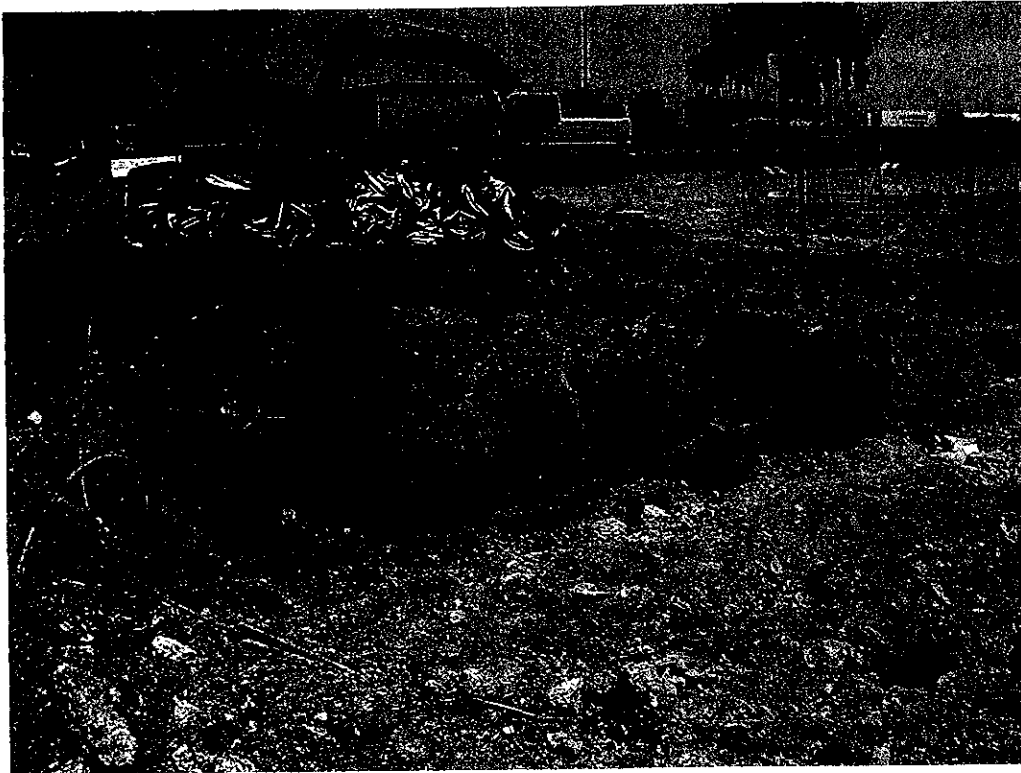
Photograph 4 – Removal of a 550-gallon Waste Oil UST for Inspection



Photograph 5 – Preparation of the Gasoline UST Piping for Inspection and Removal



Photograph 6 – Excavation of Soil at Dispensers (Sample Locations DP-1 and DP-2)



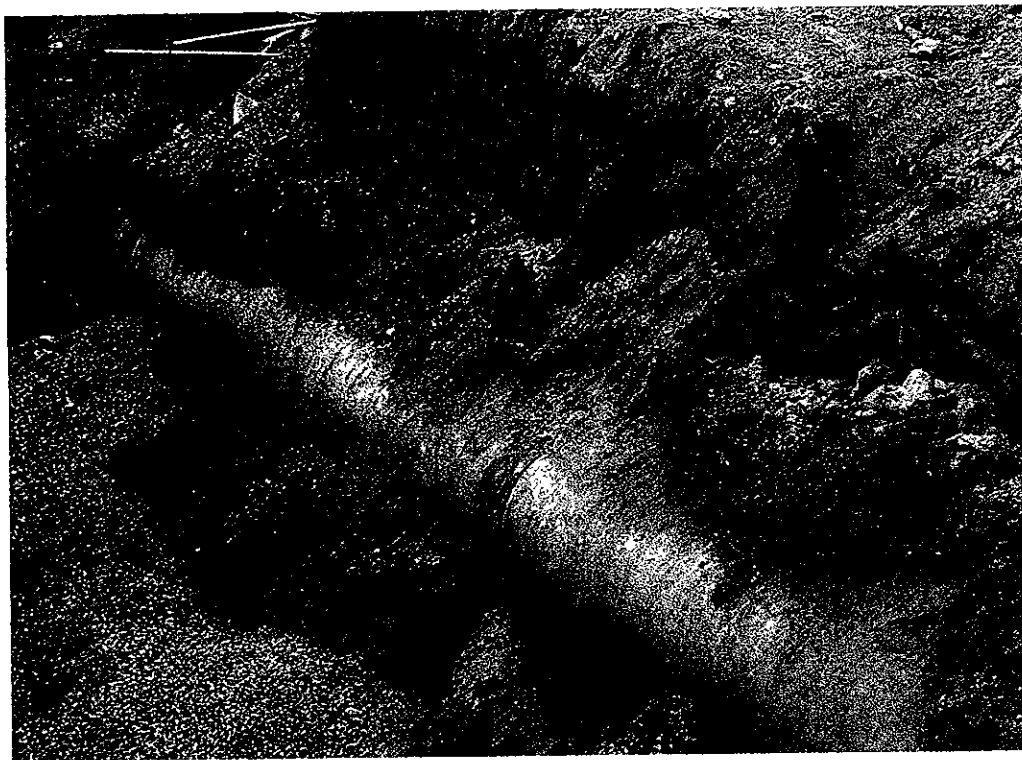
Photograph 7 – Excavation of Soil at Northern Dispenser (Sample Location DP-3)



Photograph 8 – Removal of the Hydraulic Lift Cylinder for Inspection



Photograph 9 – Over-Excavation of Soil along Gasoline UST Piping (Sample Locations PL-1 and PL-2)



Photograph 10 – Underground Storm Sewer Line and Backfill Material near the Gasoline UST Excavation

APPENDIX E

**Laboratory Reports and Chain-of-Custody Records
for Confirmation Soil Samples**



A N A L Y T I C A L R E P O R T

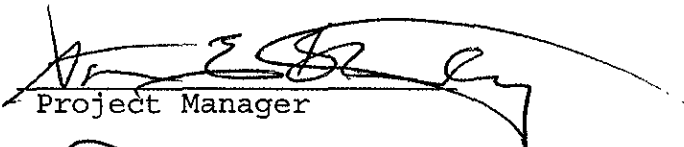
Prepared for:

McCulley, Frick & Gilman, Inc.
180 Howard
Suite 200
San Francisco, CA 94105

Date: 05-AUG-02
Lab Job Number: 159710
Project ID: 030013
Location: Avis-Oakland

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

Reviewed by:


Project Manager

Reviewed by:


Operations Manager

This package may be reproduced only in its entirety.

NELAP # 01107CA

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MFG, Inc.



Curtis & Tompkins, Ltd.

Laboratory Number: **159710**
Client: **MFG, Inc.**
Project Name: **Avis-Oakland**

Receipt Date: **07/17/02**

CASE NARRATIVE

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

Total Volatile Hydrocarbons: No analytical problems were encountered.

Volatile Organic Compounds: The dibromofluoromethane surrogate recoveries for the matrix spikes were outside acceptance limits. The matrix spike duplicate recovery for trichloroethene was outside acceptance limits. The associated laboratory control sample (LCS) recoveries were acceptable, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

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159710

MFG, INC.
CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. **44903**

Arcata Office
 1165 G Street, Suite E
 Arcata, CA 95521-5817
 Tel: (707) 826-8430
 Fax: (707) 826-8437

Boulder Office
 4900 Pearl East Circle
 Suite 300W
 Boulder, CO 80301-6118
 Tel: (303) 447-1823
 Fax: (303) 447-1838

Irvine Office
 17770 Cartwright Road
 Suite 500
 Irvine, CA 92614-6850
 Tel: (949) 253-2951
 Fax: (949) 253-2954

Osburn Office
 P.O. Box 30
 Wallace, ID
 83873-0030
 Tel: (208) 558-6811
 Fax: (208) 558-7271

San Francisco Office
 180 Howard Street, Suite 200
 San Francisco, CA 94105-1617
 Phone (415) 495-7110 - Fax (415) 495-7107

Seattle Office
 19203 36th Avenue W.
 Suite 101
 Lynnwood, WA 98036-5707
 Tel: (425) 921-4000
 Fax: (425) 921-4040

PROJECT NO: 030013 PROJECT NAME: Avis-Oakland PAGE: 1 OF: 1
 SAMPLER (Signature): [Signature] PROJECT MANAGER: Ken Johnson DATE: 7/17/02
 METHOD OF SHIPMENT: MFG Delivered CARRIER/WAYBILL NO: MA DESTINATION: Curtis + Tompkins

Field Sample Identification	SAMPLES								ANALYSIS REQUEST								
	Sample		Preservation				FILTRATION*	Containers			Constituents/Method			Handling			Remarks
	DATE	TIME	Matrix*	HCl	HNO ₃	H ₂ SO ₄		COLD	VOLUME (ml/oz)	TYPE*	NO.	TPH Gas	VOLs 8200	Oxygens	HOLD	RUSH	
UST 1 - EAST	7/17/02		SO				X	5g	0	6	X	X	X			X	En-Core
UST 1 - EAST			SO				X	6"sl	SS	1				X			
UST 1 - NORTH			SO				X	5g	0	6	X	X	X			X	En-Core
UST 1 - NORTH			SO				X	6"sl	SS	1				X			
UST 1 - SOUTH			SO				X	5g	0	6	X	X	X			X	En-Core
UST 1 - SOUTH			SO				X	6"sl	SS	1				X			
UST 1 - WEST			SO				X	5g	0	6	X	X	X			X	En-Core
UST 1 - WEST			SO				X	6"sl	SS	1				X			

Preservation Correct? Yes No N/A
 Received On Ice Cold Ambient Intact
 Cooler Temp: _____

TOTAL NUMBER OF CONTAINERS

LABORATORY COMMENTS/CONDITION OF SAMPLES

RELINQUISHED BY:					RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	SIGNATURE	PRINTED NAME	COMPANY
<u>[Signature]</u>	<u>Christopher Smith</u>	<u>MFG-SF</u>	<u>7/17/02</u>		<u>[Signature]</u>	<u>A Alvarez</u>	<u>CIT</u>

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*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other
 Containers: P - plastic G - glass T - teflon B - brass OT - other
 Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

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Gasoline by GC/FID (5035 Prep)

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	8015B (M)
Matrix:	Soil	Batch#:	73801
Units:	mg/Kg	Sampled:	07/16/02
Basis:	as received	Received:	07/17/02
Diln Fac:	1.000	Analyzed:	07/17/02

Field ID: UST1-EAST Lab ID: 159710-001
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.19

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	58-144
Bromofluorobenzene (FID)	116	60-146

Field ID: UST1-NORTH Lab ID: 159710-002
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.25

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	58-144
Bromofluorobenzene (FID)	111	60-146

Field ID: UST1-SOUTH Lab ID: 159710-003
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.25

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	58-144
Bromofluorobenzene (FID)	108	60-146

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

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Gasoline by GC/FID (5035 Prep)			
Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	8015B(M)
Matrix:	Soil	Batch#:	73801
Units:	mg/Kg	Sampled:	07/16/02
Basis:	as received	Received:	07/17/02
Diln Fac:	1.000	Analyzed:	07/17/02

Field ID: UST1-WEST
 Type: SAMPLE

Lab ID: 159710-004

Analyte	Result	RL
Gasoline C7-C12	ND	0.26

Surrogate	%REC	Limits
Trifluorotoluene (FID)	88	58-144
Bromofluorobenzene (FID)	100	60-146

Type: BLANK

Lab ID: QC184293

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	58-144
Bromofluorobenzene (FID)	103	60-146

ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

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Gasoline by GC/FID (5035 Prep)			
Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	8015B (M)
Type:	LCS	Basis:	as received
Lab ID:	QC184294	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73801
Units:	mg/Kg	Analyzed:	07/17/02

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.599	96	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	58-144
Bromofluorobenzene (FID)	106	60-146

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Gasoline by GC/FID (5035 Prep)			
Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	8015B(M)
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	159720-001	Batch#:	73801
Matrix:	Soil	Sampled:	07/12/02
Units:	mg/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/18/02

Type: MS Lab ID: QC184342

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.07800	9.804	7.617	78	44-133

Surrogate	%REC	Limits
Trifluorotoluene (FID)	120	58-144
Bromofluorobenzene (FID)	110	60-146

Type: MSD Lab ID: QC184343

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.709	7.854	81	44-133	4	31

Surrogate	%REC	Limits
Trifluorotoluene (FID)	121	58-144
Bromofluorobenzene (FID)	113	60-146



Purgeable Organics by GC/MS

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	UST1-EAST	Diln Fac:	0.9804
Lab ID:	159710-001	Batch#:	73807
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/17/02

Analyte	Result	RL
Freon 12	ND	9.8
Chloromethane	ND	9.8
Vinyl Chloride	ND	9.8
Bromomethane	ND	9.8
Chloroethane	ND	9.8
Trichlorofluoromethane	ND	4.9
Acetone	ND	20
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	20
Carbon Disulfide	ND	4.9
MTBE	78	4.9
trans-1,2-Dichloroethene	ND	4.9
Vinyl Acetate	ND	49
1,1-Dichloroethane	ND	4.9
2-Butanone	ND	9.8
cis-1,2-Dichloroethene	ND	4.9
2,2-Dichloropropane	ND	4.9
Chloroform	ND	4.9
Bromochloromethane	ND	4.9
1,1,1-Trichloroethane	ND	4.9
1,1-Dichloropropene	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
Dibromomethane	ND	4.9
4-Methyl-2-Pentanone	ND	9.8
cis-1,3-Dichloropropene	ND	4.9
Toluene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	4.9
2-Hexanone	ND	9.8
1,3-Dichloropropane	ND	4.9
Tetrachloroethene	ND	4.9

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

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4.0

MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	.030013	Analysis:	EPA 8260B
Field ID:	UST1-EAST	Diln Fac:	0.9804
Lab ID:	159710-001	Batch#:	73807
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/17/02

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

Surrogate	%RBC	Limits
Dibromofluoromethane	99	74-124
1,2-Dichloroethane-d4	98	75-128
Toluene-d8	98	80-111
Bromofluorobenzene	96	75-127

ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

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MFG, Inc.



Purgeable Organics by GC/MS

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	UST1-NORTH	Diln Fac:	1.111
Lab ID:	159710-002	Batch#:	73807
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/17/02

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.6
Acetone	ND	22
Freon 113	ND	5.6
1,1-Dichloroethene	ND	5.6
Methylene Chloride	ND	22
Carbon Disulfide	ND	5.6
MTBE	21	5.6
trans-1,2-Dichloroethene	ND	5.6
Vinyl Acetate	ND	56
1,1-Dichloroethane	ND	5.6
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.6
2,2-Dichloropropane	ND	5.6
Chloroform	ND	5.6
Bromochloromethane	ND	5.6
1,1,1-Trichloroethane	ND	5.6
1,1-Dichloropropene	ND	5.6
Carbon Tetrachloride	ND	5.6
1,2-Dichloroethane	ND	5.6
Benzene	ND	5.6
Trichloroethene	ND	5.6
1,2-Dichloropropane	ND	5.6
Bromodichloromethane	ND	5.6
Dibromomethane	ND	5.6
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.6
Toluene	ND	5.6
trans-1,3-Dichloropropene	ND	5.6
1,1,2-Trichloroethane	ND	5.6
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.6
Tetrachloroethene	ND	5.6

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

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AUG 9 2002 5.0

MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	UST1-NORTH	Diln Fac:	1.111
Lab ID:	159710-002	Batch#:	73807
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/17/02

Analyte	Result	RL
Dibromochloromethane	ND	5.6
1,2-Dibromoethane	ND	5.6
Chlorobenzene	ND	5.6
1,1,1,2-Tetrachloroethane	ND	5.6
Ethylbenzene	ND	5.6
m,p-Xylenes	ND	5.6
o-Xylene	ND	5.6
Styrene	ND	5.6
Bromoform	ND	5.6
Isopropylbenzene	ND	5.6
1,1,2,2-Tetrachloroethane	ND	5.6
1,2,3-Trichloropropane	ND	5.6
Propylbenzene	ND	5.6
Bromobenzene	ND	5.6
1,3,5-Trimethylbenzene	ND	5.6
2-Chlorotoluene	ND	5.6
4-Chlorotoluene	ND	5.6
tert-Butylbenzene	ND	5.6
1,2,4-Trimethylbenzene	ND	5.6
sec-Butylbenzene	ND	5.6
para-Isopropyl Toluene	ND	5.6
1,3-Dichlorobenzene	ND	5.6
1,4-Dichlorobenzene	ND	5.6
n-Butylbenzene	ND	5.6
1,2-Dichlorobenzene	ND	5.6
1,2-Dibromo-3-Chloropropane	ND	5.6
1,2,4-Trichlorobenzene	ND	5.6
Hexachlorobutadiene	ND	5.6
Naphthalene	ND	5.6
1,2,3-Trichlorobenzene	ND	5.6

Surrogate	%REC	Limit#
Dibromofluoromethane	98	74-124
1,2-Dichloroethane-d4	101	75-128
Toluene-d8	98	80-111
Bromofluorobenzene	98	75-127

ND= Not Detected
 RL= Reporting Limit
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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	UST1-SOUTH	Diln Fac:	1.190
Lab ID:	159710-003	Batch#:	73807
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/17/02

Analyte	Result	RI
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	6.0
Acetone	ND	24
Freon 113	ND	6.0
1,1-Dichloroethene	ND	6.0
Methylene Chloride	ND	24
Carbon Disulfide	ND	6.0
MTBE	76	6.0
trans-1,2-Dichloroethene	ND	6.0
Vinyl Acetate	ND	60
1,1-Dichloroethane	ND	6.0
2-Butanone	ND	12
cis-1,2-Dichloroethene	ND	6.0
2,2-Dichloropropane	ND	6.0
Chloroform	ND	6.0
Bromochloromethane	ND	6.0
1,1,1-Trichloroethane	ND	6.0
1,1-Dichloropropene	ND	6.0
Carbon Tetrachloride	ND	6.0
1,2-Dichloroethane	ND	6.0
Benzene	ND	6.0
Trichloroethene	ND	6.0
1,2-Dichloropropane	ND	6.0
Bromodichloromethane	ND	6.0
Dibromomethane	ND	6.0
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	6.0
Toluene	ND	6.0
trans-1,3-Dichloropropene	ND	6.0
1,1,2-Trichloroethane	ND	6.0
2-Hexanone	ND	12
1,3-Dichloropropane	ND	6.0
Tetrachloroethene	ND	6.0

ND= Not Detected
RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	UST1-SOUTH	Diln Fac:	1.190
Lab ID:	159710-003	Batch#:	73807
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/17/02

Analyte	Result	RL
Dibromochloromethane	ND	6.0
1,2-Dibromoethane	ND	6.0
Chlorobenzene	ND	6.0
1,1,1,2-Tetrachloroethane	ND	6.0
Ethylbenzene	ND	6.0
m,p-Xylenes	ND	6.0
o-Xylene	ND	6.0
Styrene	ND	6.0
Bromoform	ND	6.0
Isopropylbenzene	ND	6.0
1,1,2,2-Tetrachloroethane	ND	6.0
1,2,3-Trichloropropane	ND	6.0
Propylbenzene	ND	6.0
Bromobenzene	ND	6.0
1,3,5-Trimethylbenzene	ND	6.0
2-Chlorotoluene	ND	6.0
4-Chlorotoluene	ND	6.0
tert-Butylbenzene	ND	6.0
1,2,4-Trimethylbenzene	ND	6.0
sec-Butylbenzene	ND	6.0
para-Isopropyl Toluene	ND	6.0
1,3-Dichlorobenzene	ND	6.0
1,4-Dichlorobenzene	ND	6.0
n-Butylbenzene	ND	6.0
1,2-Dichlorobenzene	ND	6.0
1,2-Dibromo-3-Chloropropane	ND	6.0
1,2,4-Trichlorobenzene	ND	6.0
Hexachlorobutadiene	ND	6.0
Naphthalene	ND	6.0
1,2,3-Trichlorobenzene	ND	6.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	74-124
1,2-Dichloroethane-d4	101	75-128
Toluene-d8	102	80-111
Bromofluorobenzene	101	75-127

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	UST1-WEST	Diln Fac:	1.190
Lab ID:	159710-004	Batch#:	73807
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/17/02

Analyte	Result	RL
Freon 12	ND	12
Chloromethane	ND	12
Vinyl Chloride	ND	12
Bromomethane	ND	12
Chloroethane	ND	12
Trichlorofluoromethane	ND	6.0
Acetone	ND	24
Freon 113	ND	6.0
1,1-Dichloroethene	ND	6.0
Methylene Chloride	ND	24
Carbon Disulfide	ND	6.0
MTBE	13	6.0
trans-1,2-Dichloroethene	ND	6.0
Vinyl Acetate	ND	60
1,1-Dichloroethane	ND	6.0
2-Butanone	ND	12
cis-1,2-Dichloroethene	ND	6.0
2,2-Dichloropropane	ND	6.0
Chloroform	ND	6.0
Bromochloromethane	ND	6.0
1,1,1-Trichloroethane	ND	6.0
1,1-Dichloropropene	ND	6.0
Carbon Tetrachloride	ND	6.0
1,2-Dichloroethane	ND	6.0
Benzene	ND	6.0
Trichloroethene	ND	6.0
1,2-Dichloropropane	ND	6.0
Bromodichloromethane	ND	6.0
Dibromomethane	ND	6.0
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	6.0
Toluene	ND	6.0
trans-1,3-Dichloropropene	ND	6.0
1,1,2-Trichloroethane	ND	6.0
2-Hexanone	ND	12
1,3-Dichloropropane	ND	6.0
Tetrachloroethene	ND	6.0

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	UST1-WEST	Diln Fac:	1.190
Lab ID:	159710-004	Batch#:	73807
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/17/02

Analyte	Result	RL
Dibromochloromethane	ND	6.0
1,2-Dibromoethane	ND	6.0
Chlorobenzene	ND	6.0
1,1,1,2-Tetrachloroethane	ND	6.0
Ethylbenzene	ND	6.0
m,p-Xylenes	ND	6.0
o-Xylene	ND	6.0
Styrene	ND	6.0
Bromoform	ND	6.0
Isopropylbenzene	ND	6.0
1,1,2,2-Tetrachloroethane	ND	6.0
1,2,3-Trichloropropane	ND	6.0
Propylbenzene	ND	6.0
Bromobenzene	ND	6.0
1,3,5-Trimethylbenzene	ND	6.0
2-Chlorotoluene	ND	6.0
4-Chlorotoluene	ND	6.0
tert-Butylbenzene	ND	6.0
1,2,4-Trimethylbenzene	ND	6.0
sec-Butylbenzene	ND	6.0
para-Isopropyl Toluene	ND	6.0
1,3-Dichlorobenzene	ND	6.0
1,4-Dichlorobenzene	ND	6.0
n-Butylbenzene	ND	6.0
1,2-Dichlorobenzene	ND	6.0
1,2-Dibromo-3-Chloropropane	ND	6.0
1,2,4-Trichlorobenzene	ND	6.0
Hexachlorobutadiene	ND	6.0
Naphthalene	ND	6.0
1,2,3-Trichlorobenzene	ND	6.0

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

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC184319	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73807
Units:	ug/Kg	Analyzed:	07/17/02

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

ND= Not Detected
RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC184319	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73807
Units:	ug/Kg	Analyzed:	07/17/02

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

Surrogate	%REC	Limit
Dibromofluoromethane	93	74-124
1,2-Dichloroethane-d4	94	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	98	75-127

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC184318	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73807
Units:	ug/Kg	Analyzed:	07/17/02

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	49.72	99	70-131
Benzene	50.00	48.94	98	77-120
Trichloroethene	50.00	55.14	110	79-120
Toluene	50.00	48.84	98	80-120
Chlorobenzene	50.00	47.63	95	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	95	74-124
1,2-Dichloroethane-d4	96	75-128
Toluene-d8	98	80-111
Bromofluorobenzene	97	75-127

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Purgeable Organics by GC/MS

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.020
MSS Lab ID:	159725-005	Batch#:	73807
Matrix:	Soil	Sampled:	07/17/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/19/02

Type: MS Lab ID: QC184340

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.6700	51.02	64.04	126	57-134
Benzene	1.268	51.02	41.09	78	55-125
Trichloroethene	0.4586	51.02	68.18	133	37-133
Toluene	0.8651	51.02	35.69	68	48-131
Chlorobenzene	<0.1500	51.02	24.65	48	42-128

Surrogate	%REC	Limits
Dibromofluoromethane	46 *	74-124
1,2-Dichloroethane-d4	86	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	93	75-127

Type: MSD Lab ID: QC184341

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	51.02	62.42	122	57-134	3	20
Benzene	51.02	40.80	77	55-125	1	20
Trichloroethene	51.02	74.24	145 *	37-133	9	21
Toluene	51.02	35.31	68	48-131	1	20
Chlorobenzene	51.02	24.25	48	42-128	2	23

Surrogate	%REC	Limits
Dibromofluoromethane	49 *	74-124
1,2-Dichloroethane-d4	86	75-128
Toluene-d8	96	80-111
Bromofluorobenzene	94	75-127

*= Value outside of QC limits; see narrative
 RPD= Relative Percent Difference
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Gasoline Oxygenates by GC/MS			
Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/17/02
Batch#:	73807		

Field ID: UST1-EAST Lab ID: 159710-001
 Type: SAMPLE Diln Fac: 0.9804

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	98
MTBE	78	4.9
Isopropyl Ether (DIPE)	ND	4.9
Ethyl tert-Butyl Ether (ETBE)	ND	4.9
Methyl tert-Amyl Ether (TAME)	ND	4.9

Surrogate	%REC	Limit
Dibromofluoromethane	99	74-124
1,2-Dichloroethane-d4	98	75-128
Toluene-d8	98	80-111
Bromofluorobenzene	96	75-127

Field ID: UST1-NORTH Lab ID: 159710-002
 Type: SAMPLE Diln Fac: 1.111

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	110
MTBE	21	5.6
Isopropyl Ether (DIPE)	ND	5.6
Ethyl tert-Butyl Ether (ETBE)	ND	5.6
Methyl tert-Amyl Ether (TAME)	ND	5.6

Surrogate	%REC	Limit
Dibromofluoromethane	98	74-124
1,2-Dichloroethane-d4	101	75-128
Toluene-d8	98	80-111
Bromofluorobenzene	98	75-127

Field ID: UST1-SOUTH Lab ID: 159710-003
 Type: SAMPLE Diln Fac: 1.190

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	120
MTBE	76	6.0
Isopropyl Ether (DIPE)	ND	6.0
Ethyl tert-Butyl Ether (ETBE)	ND	6.0
Methyl tert-Amyl Ether (TAME)	ND	6.0

Surrogate	%REC	Limit
Dibromofluoromethane	97	74-124
1,2-Dichloroethane-d4	101	75-128
Toluene-d8	102	80-111
Bromofluorobenzene	101	75-127

ND= Not Detected
 RL= Reporting Limit
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Gasoline Oxygenates by GC/MS

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/17/02
Batch#:	73807		

Field ID:	UST1-WEST	Lab ID:	159710-004
Type:	SAMPLE	Diln Fac:	1.190

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	120
MTBE	13	6.0
Isopropyl Ether (DIPE)	ND	6.0
Ethyl tert-Butyl Ether (ETBE)	ND	6.0
Methyl tert-Amyl Ether (TAME)	ND	6.0

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

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184319		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	93	74-124
1,2-Dichloroethane-d4	94	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	98	75-127

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Gasoline Oxygenates by GC/MS

Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC184318	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73807
Units:	ug/Kg	Analyzed:	07/17/02

Analyte	Spiked	Result	%REC	Limits
MTBE	50.00	46.53	93	63-121

Surrogate	%REC	Limits
Dibromofluoromethane	95	74-124
1,2-Dichloroethane-d4	96	75-128
Toluene-d8	98	80-111
Bromofluorobenzene	97	75-127

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Gasoline Oxygenates by GC/MS			
Lab #:	159710	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.020
MSS Lab ID:	159725-005	Batch#:	73807
Matrix:	Soil	Sampled:	07/17/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/19/02

Type: MS Lab ID: QC184340

Analyte	MSS Result	Spiked	Result	%REC	Limits
MTBE	<0.2400	51.02	35.63	70	53-131

Surrogate	%REC	Limits
Dibromofluoromethane	46 *	74-124
1,2-Dichloroethane-d4	86	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	93	75-127

Type: MSD Lab ID: QC184341

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	51.02	35.13	69	53-131	1	30

Surrogate	%REC	Limits
Dibromofluoromethane	49 *	74-124
1,2-Dichloroethane-d4	86	75-128
Toluene-d8	96	80-111
Bromofluorobenzene	94	75-127

*= Value outside of QC limits; see narrative
 RPD= Relative Percent Difference
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ANALYTICAL REPORT

Prepared for:

McCulley, Frick & Gilman, Inc.
180 Howard
Suite 200
San Francisco, CA 94105

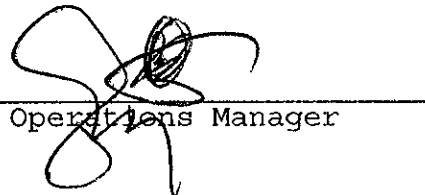
Date: 24-JUL-02
Lab Job Number: 159708
Project ID: 030013
Location: Avis-Oakland

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

Reviewed by:


Project Manager

Reviewed by:


Operations Manager

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19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
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PROJECT NO: 030013 PROJECT NAME: Avis-Oakland PAGE: 1 OF: 1
 SAMPLER (Signature): [Signature] PROJECT MANAGER: Ken Johnson DATE: 7/17/02
 METHOD OF SHIPMENT: MFG Recovered CARRIER/WAYBILL NO: NA DESTINATION: Curtis & Tompkins

SAMPLES										ANALYSIS REQUEST								
Field Sample Identification	Sample			Preservation				FILTRATION*	Containers			Constituents/Method			Handling			Remarks
	DATE	TIME	Matrix*	HCl	HNO ₃	H ₂ SO ₄	COLD		VOLUME (ml/oz)	TYPE*	NO.	TPH MS	VOL B20	Organics	HOLD	RUSH	STANDARD	
PL-1	7/16/02	6:00	SO				X	5g	0	6	X	X	X		X		En-Core	
PL-1		6:00	SO				X	6'sl	SS	1				X				
PL-2		6:20	SO				X	5g	0	6	X	X	X		X		En-Core	
PL-2		6:30	SO				X	6'sl	SS	1				X				

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

TOTAL NUMBER OF CONTAINERS: 14 LABORATORY COMMENTS/CONDITION OF SAMPLES: _____ Cooler Temp: _____

RELINQUISHED BY:					RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	SIGNATURE	PRINTED NAME	COMPANY
<u>[Signature]</u>	Christopher Spill	MFG-SF	7/17/02		<u>[Signature]</u>	A. Alver	CIT LABORATORY
<u>[Signature]</u>	A. Alver	CIT	7-17-02	9:20am	<u>[Signature]</u>		

*KEY: Matrix: AQ-aqueous NA-nonaqueous SO-soil SL-sludge P-petroleum A-air OT-other Containers: P-plastic G-glass T-terlon B-brass OT-other Filtration: F-filtered U-unfiltered
 DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator



Gasoline by GC/FID (5035 Prep)

Lab #:	159708	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	8015B(M)
Matrix:	Soil	Batch#:	73801
Units:	mg/Kg	Sampled:	07/16/02
Basis:	as received	Received:	07/17/02

Field ID:	PL-1	Diln Fac:	20.00
Type:	SAMPLE	Analyzed:	07/18/02
Lab ID:	159708-001		

Analyte	Result	RL
Gasoline C7-C12	430 H	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	58-144
Bromofluorobenzene (FID)	136	60-146

Field ID:	PL-2	Diln Fac:	40.00
Type:	SAMPLE	Analyzed:	07/17/02
Lab ID:	159708-002		

Analyte	Result	RL
Gasoline C7-C12	1,300 H	40

Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	58-144
Bromofluorobenzene (FID)	131	60-146

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184293	Analyzed:	07/17/02

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	58-144
Bromofluorobenzene (FID)	103	60-146

H= Heavier hydrocarbons contributed to the quantitation
 ND= Not Detected
 RL= Reporting Limit
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GC07 TVH 'A' Data File RTX 502

Sample Name : 159708-001,73801

FileName : G:\GC07\DATA\198A027.raw

Method : TVHBTXE

Start Time : 0.00 min

Scale Factor: 1.0

End Time : 26.00 min

Plot Offset: -37 mV

Sample #: c

Date : 7/18/02 08:57 AM

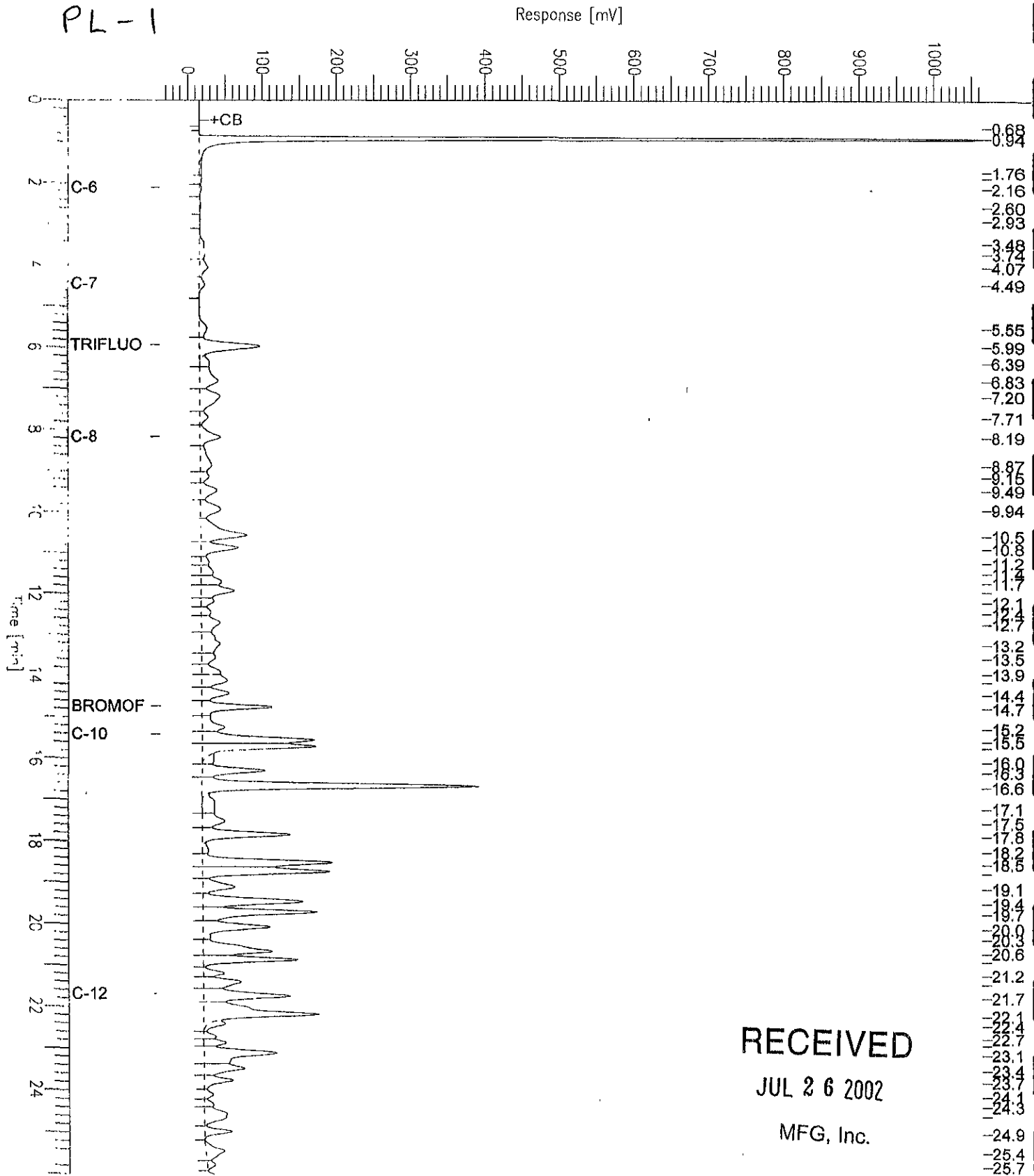
Time of Injection: 7/18/02 08:31 AM

Low Point : -36.86 mV

Plot Scale: 1101.2 mV

Page 1 of 1

High Point : 1064.38 mV



GC07 TVH 'A' Data File RTX 502

Sample Name : 159708-002,73801

Sample #: a

Page 1 of 1

FileName : G:\GC07\DATA\198A007.raw

Date : 7/17/02 04:32 PM

Method : TVHBTXE

Time of Injection: 7/17/02 04:05 PM

Start Time : 0.00 min

End Time : 26.00 min

Low Point : -37.70 mV

High Point : 1064.19 mV

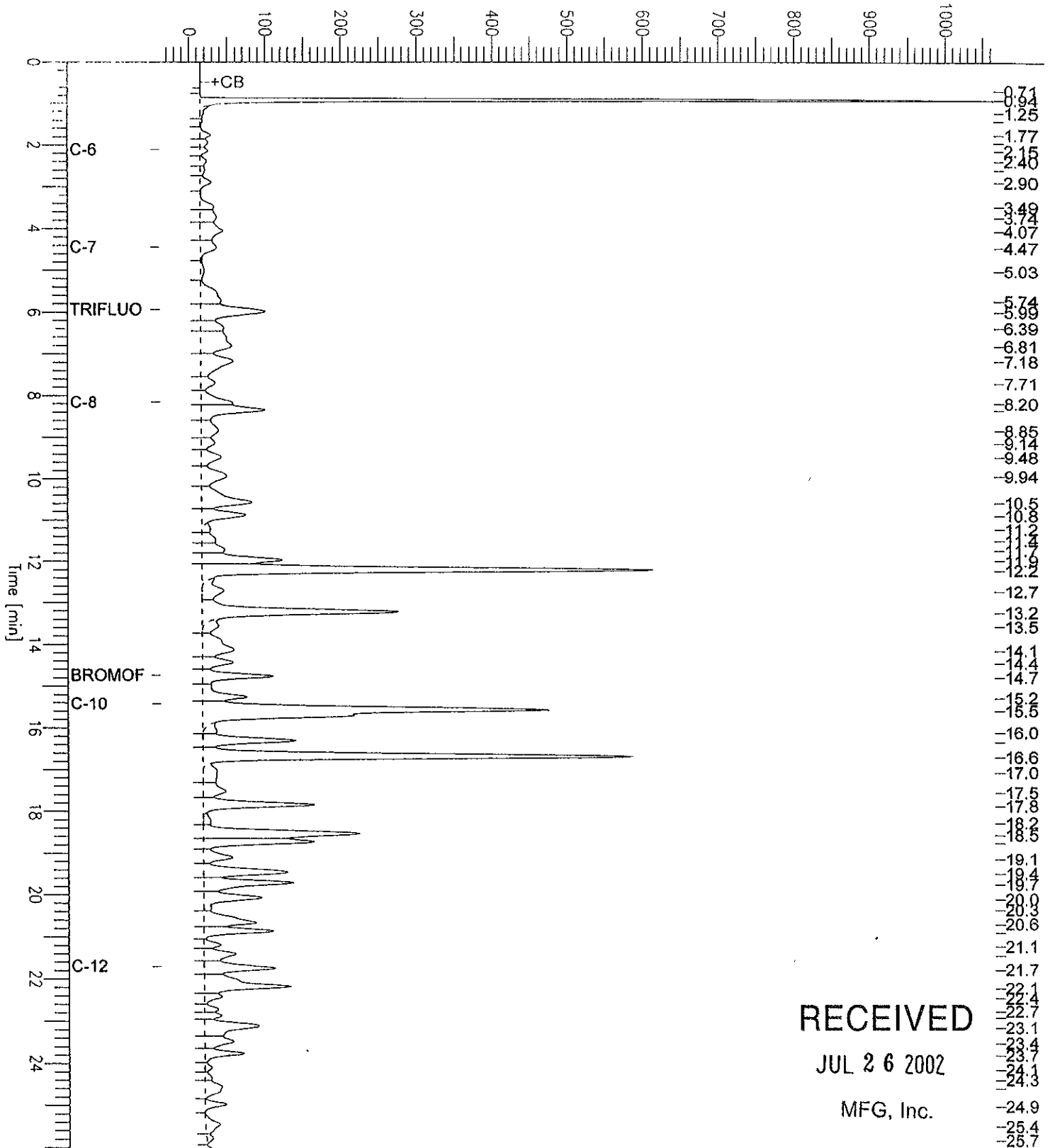
Scale Factor: 1.0

Plot Offset: -38 mV

Plot Scale: 1101.9 mV

PL-2

Response [mV]



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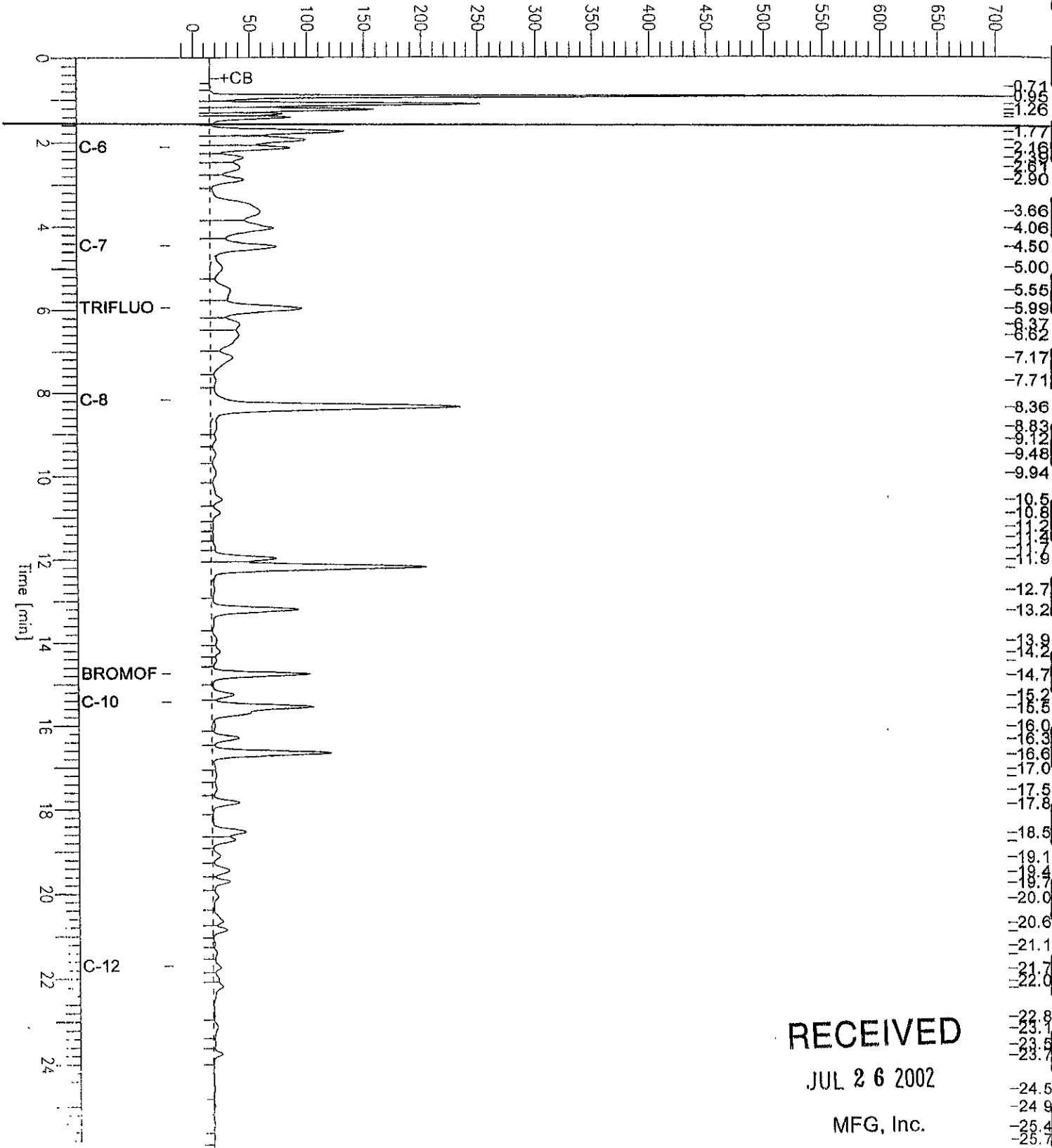
GC07 TVH 'A' Data File RTX 502

Sample Name : ccv/lcs,qc184294,73801,02ws1033,5/5000
 FileName : G:\GC07\DATA\198A004.raw
 Method : TVHBTXE
 Start Time : 0.00 min End Time : 26.00 min
 Scale Factor: 1.0 Plot Offset: -20 mV

Sample # :
 Date : 7/17/02 02:16 PM
 Time of Injection: 7/17/02 01:50 PM
 Low Point : -19.67 mV High Point : 707.43 mV
 Plot Scale: 727.1 mV

Gasoline

Response [mV]



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Gasoline by GC/FID (5035 Prep)

Lab #:	159708	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	8015B(M)
Type:	LCS	Basis:	as received
Lab ID:	QC184294	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73801
Units:	mg/Kg	Analyzed:	07/17/02

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.599	96	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	58-144
Bromofluorobenzene (FID)	106	60-146

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Gasoline by GC/FID (5035 Prep)			
Lab #:	159708	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	8015B (M)
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	159720-001	Batch#:	73801
Matrix:	Soil	Sampled:	07/12/02
Units:	mg/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/18/02

Type: MS Lab ID: QC184342

Analyte	MSS Result	Spiked	Result	REC	Limite
Gasoline C7-C12	<0.07800	9.804	7.617	78	44-133

Surrogate	REC	Limite
Trifluorotoluene (FID)	120	58-144
Bromofluorobenzene (FID)	110	60-146

Type: MSD Lab ID: QC184343

Analyte	Spiked	Result	REC	Limite	RPD	Lim
Gasoline C7-C12	9.709	7.854	81	44-133	4	31

Surrogate	REC	Limite
Trifluorotoluene (FID)	121	58-144
Bromofluorobenzene (FID)	113	60-146

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Purgeable Organics by GC/MS

Lab #:	159708	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	PL-1	Diln Fac:	40.00
Lab ID:	159708-001	Batch#:	73846
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/19/02

Analyte	Result	RL
Freon 12	ND	400
Chloromethane	ND	400
Vinyl Chloride	ND	400
Bromomethane	ND	400
Chloroethane	ND	400
Trichlorofluoromethane	ND	200
Acetone	ND	800
Freon 113	ND	200
1,1-Dichloroethene	ND	200
Methylene Chloride	ND	800
Carbon Disulfide	ND	200
MTBE	ND	200
trans-1,2-Dichloroethene	ND	200
Vinyl Acetate	ND	2,000
1,1-Dichloroethane	ND	200
2-Butanone	ND	400
cis-1,2-Dichloroethene	ND	200
2,2-Dichloropropane	ND	200
Chloroform	ND	200
Bromochloromethane	ND	200
1,1,1-Trichloroethane	ND	200
1,1-Dichloropropene	ND	200
Carbon Tetrachloride	ND	200
1,2-Dichloroethane $\delta D C$	ND	200
Benzene	ND	200
Trichloroethene	ND	200
1,2-Dichloropropane	ND	200
Bromodichloromethane	ND	200
Dibromomethane	ND	200
4-Methyl-2-Pentanone	ND	400
cis-1,3-Dichloropropene	ND	200
Toluene	ND	200
trans-1,3-Dichloropropene	ND	200
1,1,2-Trichloroethane	ND	200
2-Hexanone	ND	400
1,3-Dichloropropane	ND	200
Tetrachloroethene	ND	200

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS

Lab #: 159708	Location: Avis-Oakland	
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5035	
Project#: 030013	Analysis: EPA 8260B	
Field ID: PL-1	Diln Fac: 40.00	
Lab ID: 159708-001	Batch#: 73846	
Matrix: Soil	Sampled: 07/16/02	
Units: ug/Kg	Received: 07/17/02	
Basis: as received	Analyzed: 07/19/02	

Analyte	Result	RL
Dibromochloromethane	ND	200
1,2-Dibromoethane <i>EDB</i>	ND	200
Chlorobenzene	ND	200
1,1,1,2-Tetrachloroethane	ND	200
Ethylbenzene	ND	200
m,p-Xylenes	270	200
o-Xylene	320	200
Styrene	ND	200
Bromoform	ND	200
Isopropylbenzene	ND	200
1,1,2,2-Tetrachloroethane	ND	200
1,2,3-Trichloropropane	ND	200
Propylbenzene	ND	200
Bromobenzene	ND	200
1,3,5-Trimethylbenzene	2,400	200
2-Chlorotoluene	ND	200
4-Chlorotoluene	ND	200
tert-Butylbenzene	ND	200
1,2,4-Trimethylbenzene	6,000	200
sec-Butylbenzene	ND	200
para-Isopropyl Toluene	ND	200
1,3-Dichlorobenzene	ND	200
1,4-Dichlorobenzene	ND	200
n-Butylbenzene	810	200
1,2-Dichlorobenzene	ND	200
1,2-Dibromo-3-Chloropropane	ND	200
1,2,4-Trichlorobenzene	ND	200
Hexachlorobutadiene	ND	200
Naphthalene	810	200
1,2,3-Trichlorobenzene	ND	200

Surrogate	*REC	Limits
Dibromofluoromethane	97	74-124
1,2-Dichloroethane-d4	127	75-128
Toluene-d8	107	80-111
Bromofluorobenzene	91	75-127

ND= Not Detected
 RL= Reporting Limit
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ML-G, Inc.

Purgeable Organics by GC/MS

Lab #: 159708	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5035
Project#: 030013	Analysis: EPA 8260B
Field ID: PL-2	Diln Fac: 833.3
Lab ID: 159708-002	Batch#: 73846
Matrix: Soil	Sampled: 07/16/02
Units: ug/Kg	Received: 07/17/02
Basis: as received	Analyzed: 07/18/02

Analyte	Result	RL
Freon 12	ND	8,300
Chloromethane	ND	8,300
Vinyl Chloride	ND	8,300
Bromomethane	ND	8,300
Chloroethane	ND	8,300
Trichlorofluoromethane	ND	4,200
Acetone	ND	17,000
Freon 113	ND	4,200
1,1-Dichloroethene	ND	4,200
Methylene Chloride	ND	17,000
Carbon Disulfide	ND	4,200
MTBE	ND	4,200
trans-1,2-Dichloroethene	ND	4,200
Vinyl Acetate	ND	42,000
1,1-Dichloroethane	ND	4,200
2-Butanone	ND	8,300
cis-1,2-Dichloroethene	ND	4,200
2,2-Dichloropropane	ND	4,200
Chloroform	ND	4,200
Bromochloromethane	ND	4,200
1,1,1-Trichloroethane	ND	4,200
1,1-Dichloropropene	ND	4,200
Carbon Tetrachloride	ND	4,200
1,2-Dichloroethane	ND	4,200
Benzene	ND	4,200
Trichloroethene	ND	4,200
1,2-Dichloropropane	ND	4,200
Bromodichloromethane	ND	4,200
Dibromomethane	ND	4,200
4-Methyl-2-Pentanone	ND	8,300
cis-1,3-Dichloropropene	ND	4,200
Toluene	28,000	4,200
trans-1,3-Dichloropropene	ND	4,200
1,1,2-Trichloroethane	ND	4,200
2-Hexanone	ND	8,300
1,3-Dichloropropane	ND	4,200
Tetrachloroethene	ND	4,200

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 ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 159708	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5035
Project#: 030013	Analysis: EPA 8260B
Field ID: PL-2	Diln Fac: 833.3
Lab ID: 159708-002	Batch#: 73846
Matrix: Soil	Sampled: 07/16/02
Units: ug/Kg	Received: 07/17/02
Basis: as received	Analyzed: 07/18/02

Analyte	Result	RL
Dibromochloromethane	ND	4,200
1,2-Dibromoethane	ND	4,200
Chlorobenzene	ND	4,200
1,1,1,2-Tetrachloroethane	ND	4,200
Ethylbenzene	22,000	4,200
m,p-Xylenes	160,000	4,200
o-Xylene	71,000	4,200
Styrene	ND	4,200
Bromoform	ND	4,200
Isopropylbenzene	ND	4,200
1,1,2,2-Tetrachloroethane	ND	4,200
1,2,3-Trichloropropane	ND	4,200
Propylbenzene	9,700	4,200
Bromobenzene	ND	4,200
1,3,5-Trimethylbenzene	53,000	4,200
2-Chlorotoluene	ND	4,200
4-Chlorotoluene	ND	4,200
tert-Butylbenzene	ND	4,200
1,2,4-Trimethylbenzene	150,000	4,200
sec-Butylbenzene	ND	4,200
para-Isopropyl Toluene	ND	4,200
1,3-Dichlorobenzene	ND	4,200
1,4-Dichlorobenzene	ND	4,200
n-Butylbenzene	18,000	4,200
1,2-Dichlorobenzene	ND	4,200
1,2-Dibromo-3-Chloropropane	ND	4,200
1,2,4-Trichlorobenzene	ND	4,200
Hexachlorobutadiene	ND	4,200
Naphthalene	23,000	4,200
1,2,3-Trichlorobenzene	ND	4,200

Surrogate	%REC	Limits
Dibromofluoromethane	96	74-124
1,2-Dichloroethane-d4	112	75-128
Toluene-d8	104	80-111
Bromofluorobenzene	93	75-127

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS			
Lab #:	159708	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184486	Batch#:	73846
Matrix:	Water	Analyzed:	07/18/02
Units:	ug/L		

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

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ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Purgeable Organics by GC/MS

Lab #:	159708	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184486	Batch#:	73846
Matrix:	Water	Analyzed:	07/18/02
Units:	ug/L		

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

Surrogate	REC	Limit
Dibromofluoromethane	96	74-124
1,2-Dichloroethane-d4	109	75-128
Toluene-d8	95	80-111
Bromofluorobenzene	96	75-127

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS			
Lab #:	159708	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184487	Batch#:	73846
Matrix:	Water	Analyzed:	07/18/02
Units:	ug/L		

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

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159708	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184487	Batch#:	73846
Matrix:	Water	Analyzed:	07/18/02
Units:	ug/L		

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

Surrogate	REC	Limit
Dibromofluoromethane	87	74-124
1,2-Dichloroethane-d4	102	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	99	75-127

ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

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MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159708	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC184485	Batch#:	73846
Matrix:	Water	Analyzed:	07/18/02
Units:	ug/L		

Analyte	Spiked	Result	REC	Limits
1,1-Dichloroethene	50.00	42.88	86	70-131
Benzene	50.00	44.95	90	77-120
Trichloroethene	50.00	48.11	96	79-120
Toluene	50.00	48.12	96	80-120
Chlorobenzene	50.00	47.44	95	80-120

Surrogate	REC	Limits
Dibromofluoromethane	91	74-124
1,2-Dichloroethane-d4	109	75-128
Toluene-d8	102	80-111
Bromofluorobenzene	94	75-127

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MFG, Inc.

Purgeable Organics by GC/MS			
Lab #:	159708	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	73846
MSS Lab ID:	159658-004	Sampled:	07/12/02
Matrix:	Water	Received:	07/12/02
Units:	ug/L	Analyzed:	07/18/02
Diln Fac:	1.000		

Type: MS Lab ID: QC184500

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.2700	50.00	40.69	81	57-134
Benzene	<0.3200	50.00	44.25	88	55-125
Trichloroethene	<0.2300	50.00	46.52	93	37-133
Toluene	<0.2900	50.00	44.85	90	48-131
Chlorobenzene	<0.2600	50.00	50.84	102	42-128

Surrogate	%REC	Limits
Dibromofluoromethane	87	74-124
1,2-Dichloroethane-d4	99	75-128
Toluene-d8	93	80-111
Bromofluorobenzene	93	75-127

Type: MSD Lab ID: QC184501

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	41.55	83	57-134	2	20
Benzene	50.00	44.67	89	55-125	1	20
Trichloroethene	50.00	46.78	94	37-133	1	21
Toluene	50.00	44.23	88	48-131	1	20
Chlorobenzene	50.00	48.87	98	42-128	4	23

Surrogate	%REC	Limits
Dibromofluoromethane	87	74-124
1,2-Dichloroethane-d4	99	75-128
Toluene-d8	94	80-111
Bromofluorobenzene	95	75-127

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W.G., Inc.

Gasoline Oxygenates by GC/MS

Lab #: 159708	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5030B
Project#: 030013	Analysis: EPA 8260B
Basis: as received	Sampled: 07/16/02
Batch#: 73846	Received: 07/17/02

Field ID: PL-1	Units: ug/Kg
Type: SAMPLE	Diln Fac: 40.00
Lab ID: 159708-001	Analyzed: 07/19/02
Matrix: Soil	

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	4,000
MTBE	ND	200
Isopropyl Ether (DIPE)	ND	200
Ethyl tert-Butyl Ether (ETBE)	ND	200
Methyl tert-Amyl Ether (TAME)	ND	200

Surrogate	%REC	Limits
Dibromofluoromethane	97	74-124
1,2-Dichloroethane-d4	127	75-128
Toluene-d8	107	80-111
Bromofluorobenzene	91	75-127

Field ID: PL-2	Units: ug/Kg
Type: SAMPLE	Diln Fac: 833.3
Lab ID: 159708-002	Analyzed: 07/18/02
Matrix: Soil	

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	83,000
MTBE	ND	4,200
Isopropyl Ether (DIPE)	ND	4,200
Ethyl tert-Butyl Ether (ETBE)	ND	4,200
Methyl tert-Amyl Ether (TAME)	ND	4,200

Surrogate	%REC	Limits
Dibromofluoromethane	96	74-124
1,2-Dichloroethane-d4	112	75-128
Toluene-d8	104	80-111
Bromofluorobenzene	93	75-127

Type: BLANK	Units: ug/L
Lab ID: QC184486	Diln Fac: 1.000
Matrix: Water	Analyzed: 07/18/02

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	96	74-124
1,2-Dichloroethane-d4	109	75-128
Toluene-d8	95	80-111
Bromofluorobenzene	96	75-127

NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

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Gasoline Oxygenates by GC/MS

Lab #: 159708	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5030B
Project#: 030013	Analysis: EPA 8260B
Basis: as received	Sampled: 07/16/02
Batch#: 73846	Received: 07/17/02

Type: BLANK	Units: ug/L
Lab ID: QC184487	Diln Fac: 1.000
Matrix: Water	Analyzed: 07/18/02

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	87	74-124
1,2-Dichloroethane-d4	102	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	99	75-127

Type: BLANK	Matrix: Soil
Lab ID: QC184523	

Analyte	Result
tert-Butyl Alcohol (TBA)	NA
MTBE	NA
Isopropyl Ether (DIPE)	NA
Ethyl tert-Butyl Ether (ETBE)	NA
Methyl tert-Amyl Ether (TAME)	NA

Surrogate	Result
Dibromofluoromethane	NA
1,2-Dichloroethane-d4	NA
Toluene-d8	NA
Bromofluorobenzene	NA

NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

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18.0

MFG, Inc.

Gasoline Oxygenates by GC/MS			
Lab #:	159708	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC184485	Batch#:	73846
Matrix:	Water	Analyzed:	07/18/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	50.00	41.27	83	63-121

Surrogate	%REC	Limits
Dibromofluoromethane	91	74-124
1,2-Dichloroethane-d4	109	75-128
Toluene-d8	102	80-111
Bromofluorobenzene	94	75-127

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Gasoline Oxygenates by GC/MS			
Lab #:	159708	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	73846
MSS Lab ID:	159658-004	Sampled:	07/12/02
Matrix:	Water	Received:	07/12/02
Units:	ug/L	Analyzed:	07/18/02
Diln Fac:	1.000		

Type: MS Lab ID: QC184500

Analyte	MSS Result	Spiked	Result	%REC	Limits
MTBE	<0.1900	50.00	43.57	87	53-131

Surrogate	%REC	Limits
Dibromofluoromethane	87	74-124
1,2-Dichloroethane-d4	99	75-128
Toluene-d8	93	80-111
Bromofluorobenzene	93	75-127

Type: MSD Lab ID: QC184501

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	50.00	43.73	87	53-131	0	30

Surrogate	%REC	Limits
Dibromofluoromethane	87	74-124
1,2-Dichloroethane-d4	99	75-128
Toluene-d8	94	80-111
Bromofluorobenzene	95	75-127

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CFG, Inc.



A N A L Y T I C A L R E P O R T

Prepared for:

McCulley, Frick & Gilman, Inc.
180 Howard
Suite 200
San Francisco, CA 94105

Date: 08-AUG-02
Lab Job Number: 159778
Project ID: 030013
Location: Avis-Oakland

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

Reviewed by:


Project Manager

Reviewed by:


Operations Manager

This package may be reproduced only in its entirety.

Laboratory Number: **159778**
Client: **MFG, Inc.**
Project Name: **Avis-Oakland**

Receipt Date: **07/19/02**

CASE NARRATIVE

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

Total Volatile Hydrocarbons: The trifluorotoluene surrogate recovery for sample DP-3 (159778-003) was above acceptance limits due to coelution of the surrogate peak with hydrocarbon peaks. The associated bromofluorobenzene surrogate recovery was acceptable, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

Total Extractable Hydrocarbons: No analytical problems were encountered.

Volatile Organic Compounds: The matrix spike recoveries for MTBE were not meaningful. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The associated laboratory control sample (LCS) recovery was acceptable, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

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159778

MFG, Inc.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 43447

Arcata Office 1165 G Street, Suite E Arcata, CA 95521-5817 Tel: (707) 826-8430 Fax: (707) 826-8437
 Boulder Office 4900 Pearl East Circle Suite 300W Boulder, CO 80301-6118 Tel: (303) 447-1823 Fax: (303) 447-1836
 Irvine Office 17770 Cartwright Road Suite 500 Irvine, CA 92614-5850 Tel: (949) 253-2951 Fax: (949) 253-2954
 Osburn Office P.O. Box 30 Wallace, ID 83873-0030 Tel: (208) 558-6811 Fax: (208) 556-7271
 San Francisco Office 180 Howard Street Suite 200 San Francisco, CA 94105-1617
 Seattle Office 19203 36th Avenue W. Suite 101 Lynnwood, WA 98036-5707 Tel: (425) 921-4000 Fax: (425) 921-4040

PROJECT NO: 030013 PROJECT NAME: Avis - Oakland PAGE: 1 OF: 1
 SAMPLER (Signature): [Signature] PROJECT MANAGER: Ken Johnson DATE: 7/19/02
 METHOD OF SHIPMENT: MFG Delivered CARRIER/WAYBILL NO: NA DESTINATION: Curfey & Hopkins

Field Sample Identification	SAMPLES										ANALYSIS REQUEST							
	Sample			Preservation				FILTRATION*	Containers			Constituents/Method			Handling		Remarks	
	DATE	TIME	Matrix*	HCl	HNO ₃	H ₂ SO ₄	COLD		VOLUME (ml/oz)	TYPE*	NO.	THMs	VOCS 9210	Organics	TEPH mail	HOLD		RUSH
1 DP-1	7/19/02	11:00	SO				X	5g	OT 6	6	X	X	X				X	En-Core
DP-1		11:00	SO				X	6.5l	SS 1	1				X			X	
2 DP-2		11:30	SO				X	5g	OT 6	6	X	X	X				X	En-Core
DP-2		11:30	SO				X	6.5l	SS 1	1				X			X	
3 DP-3		12:00	SO				X	5g	OT 6	6	X	X	X				X	En-Core
DP-3		12:00	SO				X	6.5l	SS 1	1				X			X	
PL-1 3.5-4.0'		12:30	SO				X	5g	OT 6	6	X	X	X				X	En-Core
11 PL-1 3.5-4.0'		12:30	SO				X	6.5l	SS 1	1				X			X	
5 PL-2 7.5-8.0'		1:00	SO				X	5g	OT 6	6	X	X	X				X	En-Core
PL-2 7.5-8.0'		1:00	SO				X	6.5l	SS 1	1				X			X	

TOTAL NUMBER OF CONTAINERS 35 LABORATORY COMMENTS/CONDITION OF SAMPLES Cooler Temp:

RELINQUISHED BY:					RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	SIGNATURE	PRINTED NAME	COMPANY
<u>[Signature]</u>	<u>Christopher Smith</u>	<u>MFG-SF</u>	<u>7/19/02</u>	<u>1410</u>	<u>[Signature]</u>	<u>Steven Stanley</u>	<u>CST</u>

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Preservation Correct? Yes No N/A
 Received On Ice Cold Ambient Intact
 Matrix: AO - aqueous Na - non-aqueous SO - sorbent P - plastic G - glass T - teflon B - brass OT - other
 Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
 Distribution: F - Field Use Y - Laboratory Copy W - Return to Originator
 AUG 12 2002
 MFG, Inc.

Gasoline by GC/FID (5035 Prep)			
Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	8015B(M)
Matrix:	Soil	Batch#:	73882
Units:	mg/Kg	Sampled:	07/19/02
Basis:	as received	Received:	07/19/02
Diln Fac:	1.000	Analyzed:	07/19/02

Field ID: DP-1 Lab ID: 159778-001
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	0.18	0.17

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	58-144
Bromofluorobenzene (FID)	99	60-146

Field ID: DP-2 Lab ID: 159778-002
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Trifluorotoluene (FID)	84	58-144
Bromofluorobenzene (FID)	86	60-146

Field ID: DP-3 Lab ID: 159778-003
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	3.0 Y	0.17

Surrogate	%REC	Limits
Trifluorotoluene (FID)	154 *	58-144
Bromofluorobenzene (FID)	122	60-146

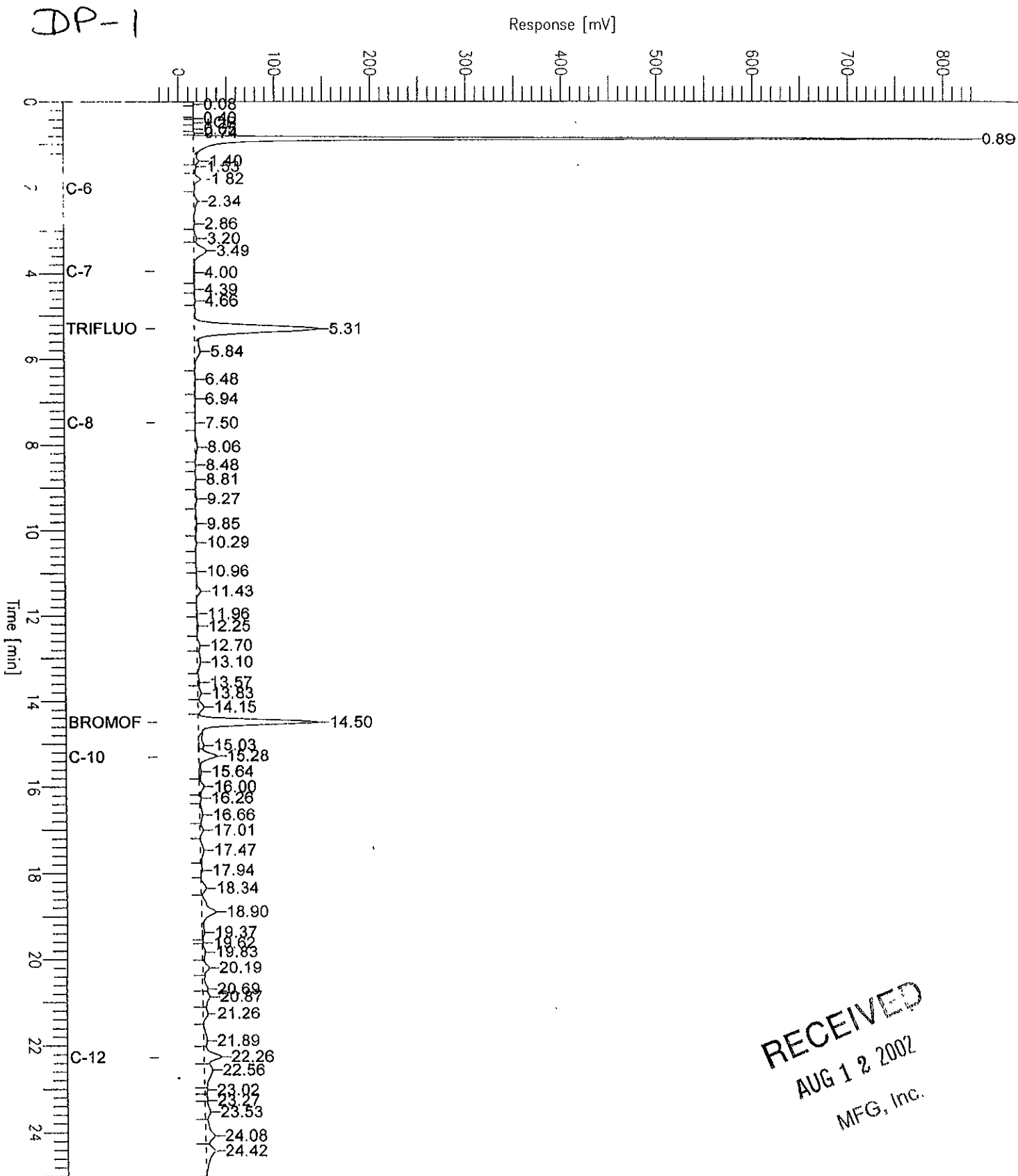
*= Value outside of QC limits; see narrative
 Y= Sample exhibits fuel pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

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Chromatogram

Sample Name : 159778-001,73882,tvh only
FileName : G:\GC05\DATA\200G005.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: -25 mV

Sample #: b Page 1 of 1
Date : 7/19/02 06:45 PM
Time of Injection: 7/19/02 06:20 PM
Low Point : -24.90 mV High Point : 830.60 mV
Plot Scale: 855.5 mV

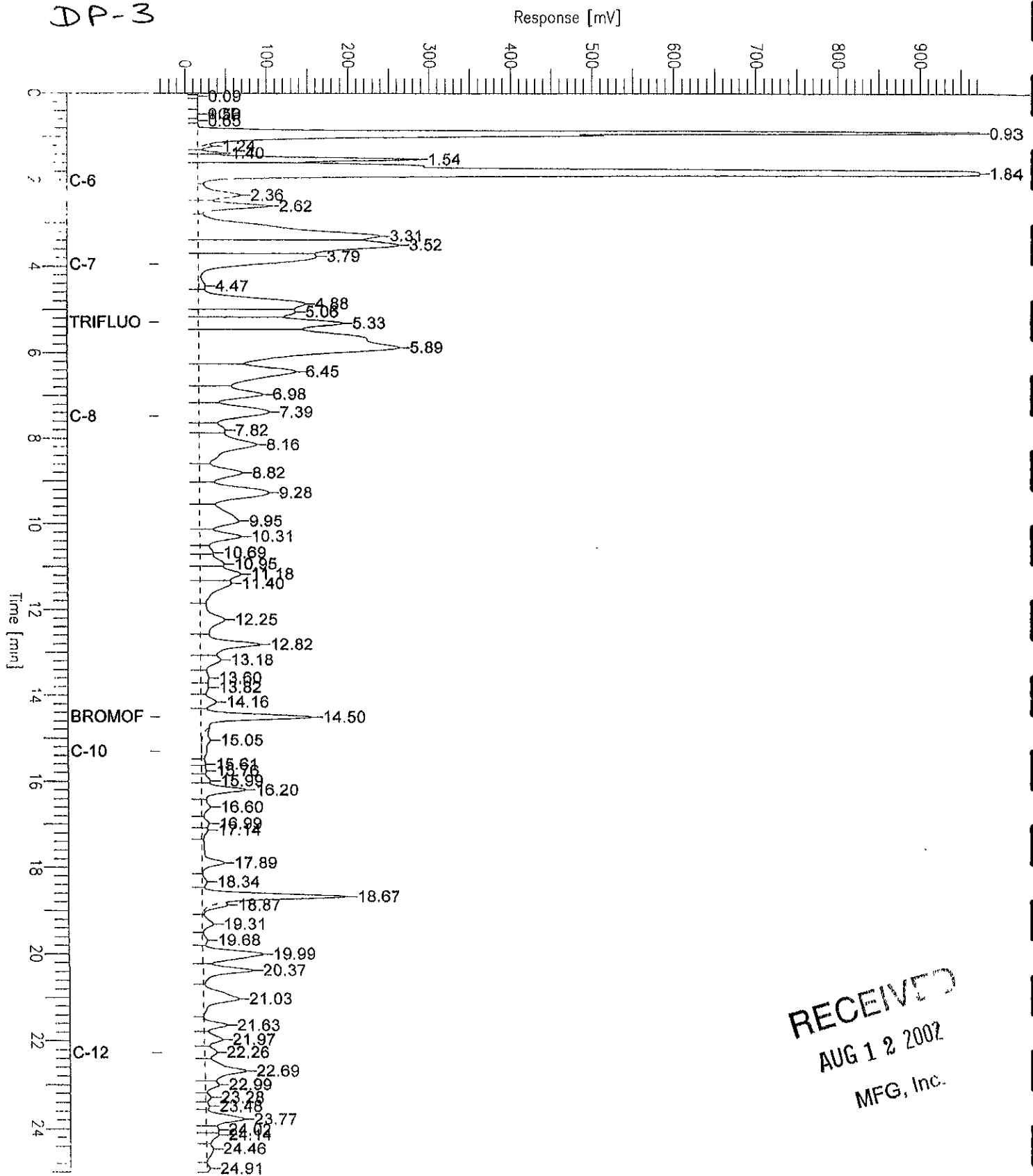


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Chromatogram

Sample Name : 159778-003,73882,tvh only
FileName : G:\GC05\DATA\200G007.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0
End Time : 25.00 min
Plot Offset: -32 mV

Sample #: b
Date : 7/19/02 07:52 PM
Time of Injection: 7/19/02 07:27 PM
Low Point : -31.83 mV
Plot Scale: 1004.5 mV
Page 1 of 1
High Point : 972.71 mV



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Gasoline by GC/FID (5035 Prep)			
Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	8015B(M)
Matrix:	Soil	Batch#:	73882
Units:	mg/Kg	Sampled:	07/19/02
Basis:	as received	Received:	07/19/02
Diln Fac:	1.000	Analyzed:	07/19/02

Field ID: PL-1 3.5-4.0' Lab ID: 159778-004
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Trifluorotoluene (FID)	84	58-144
Bromofluorobenzene (FID)	85	60-146

Field ID: PL-2 7.5-8.0' Lab ID: 159778-005
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.21

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	58-144
Bromofluorobenzene (FID)	99	60-146

Type: BLANK Lab ID: QC184609

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	58-144
Bromofluorobenzene (FID)	96	60-146

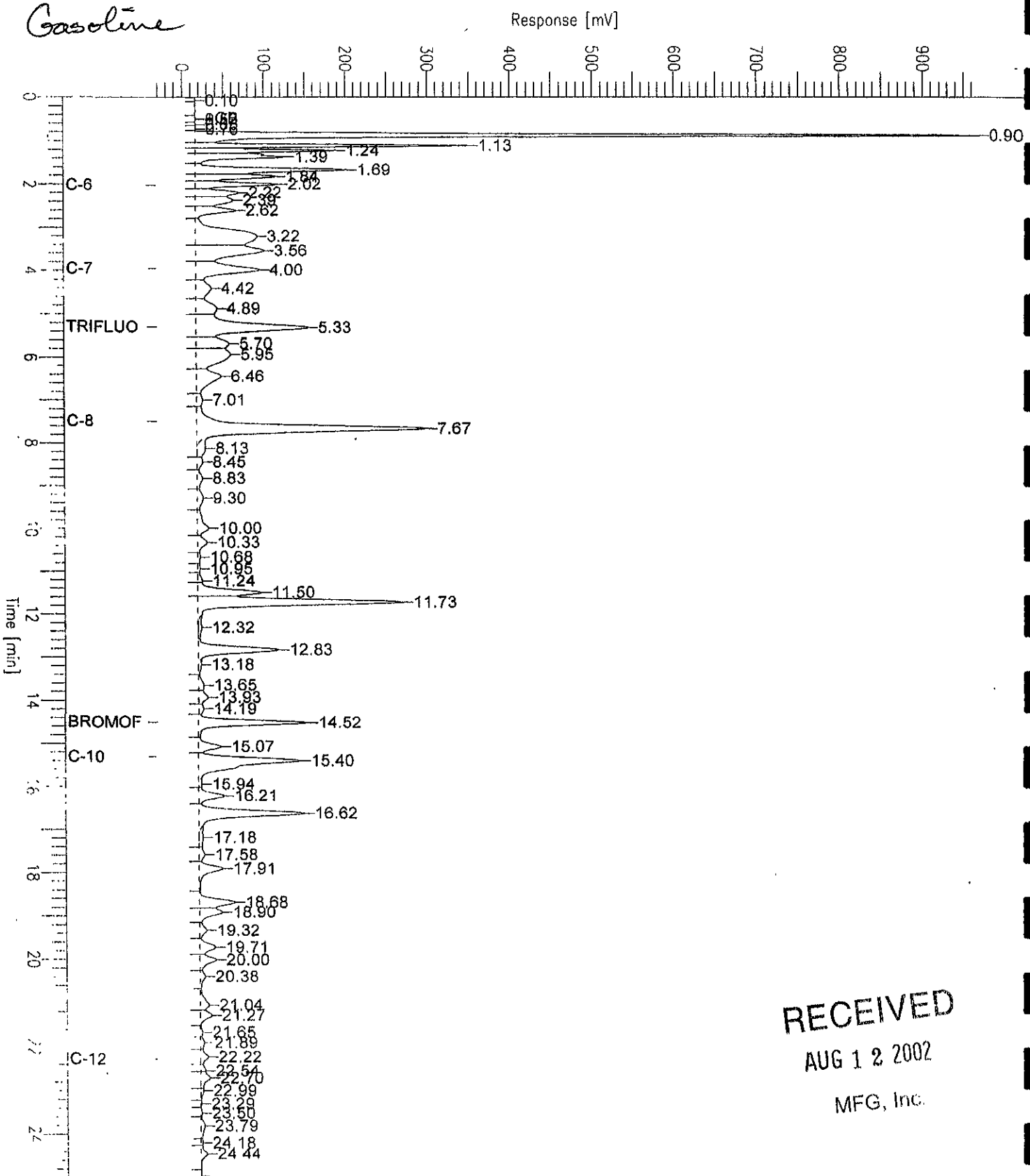
*= Value outside of QC limits; see narrative
 Y= Sample exhibits fuel pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

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Chromatogram

Sample Name : CCV/LCS, QC184610, 73882, 02WS1119, 5/5000
FileName : G:\GC05\DATA\200G002.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor : 1.0 Plot Offset : -32 mV

Sample # :
Date : 7/19/02 02:26 PM
Time of Injection: 7/19/02 02:00 PM
Low Point : -31.70 mV High Point : 969.21 mV
Plot Scale: 1000.9 mV



Gasoline by GC/FID (5035 Prep)

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	8015B (M)
Type:	LCS	Basis:	as received
Lab ID:	QC184610	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73882
Units:	mg/Kg	Analyzed:	07/19/02

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.595	96	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	58-144
Bromofluorobenzene (FID)	106	60-146

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Gasoline by GC/FID (5035 Prep)			
Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	8015B(M)
Field ID:	ZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	159762-016	Batch#:	73882
Matrix:	Soil	Sampled:	07/16/02
Units:	mg/Kg	Received:	07/19/02
Basis:	as received	Analyzed:	07/24/02

Type: MS Lab ID: QC184611

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.622	9.346	9.564	85	44-133

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	58-144
Bromofluorobenzene (FID)	78	60-146

Type: MSD Lab ID: QC184612

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.00	10.00	84	44-133	1	31

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	58-144
Bromofluorobenzene (FID)	106	60-146

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Total Extractable Hydrocarbons			
Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	SHAKER TABLE
Project#:	030013	Analysis:	EPA 8015B(M)
Matrix:	Soil	Sampled:	07/19/02
Units:	mg/Kg	Received:	07/19/02
Basis:	as received	Prepared:	07/29/02
Diln Fac:	1.000	Analyzed:	07/30/02
Batch#:	74090		

Field ID: DP-1 Lab ID: 159778-001
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	20 H Y	1.0
Motor Oil C24-C36	10 L	5.0

Surrogate	%REC	Limits
Hexacosane	68	48-137

Field ID: DP-2 Lab ID: 159778-002
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	29 H Y	0.99
Motor Oil C24-C36	28 L	5.0

Surrogate	%REC	Limits
Hexacosane	69	48-137

Field ID: DP-3 Lab ID: 159778-003
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	39 H L Y	1.0
Motor Oil C24-C36	18 L	5.0

Surrogate	%REC	Limits
Hexacosane	83	48-137

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits fuel pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

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 MFG, Inc.

Chromatogram

Sample Name : 159778-001,74090

Sample #: 74090

Page 1 of 1

FileName : G:\GC13\CHB\210B032.RAW

Date : 7/30/02 12:48 PM

Method : BTEH202.MTH

Time of Injection: 7/30/02 09:10 AM

Start Time : 0.01 min

End Time : 31.91 min

Low Point : 22.25 mV

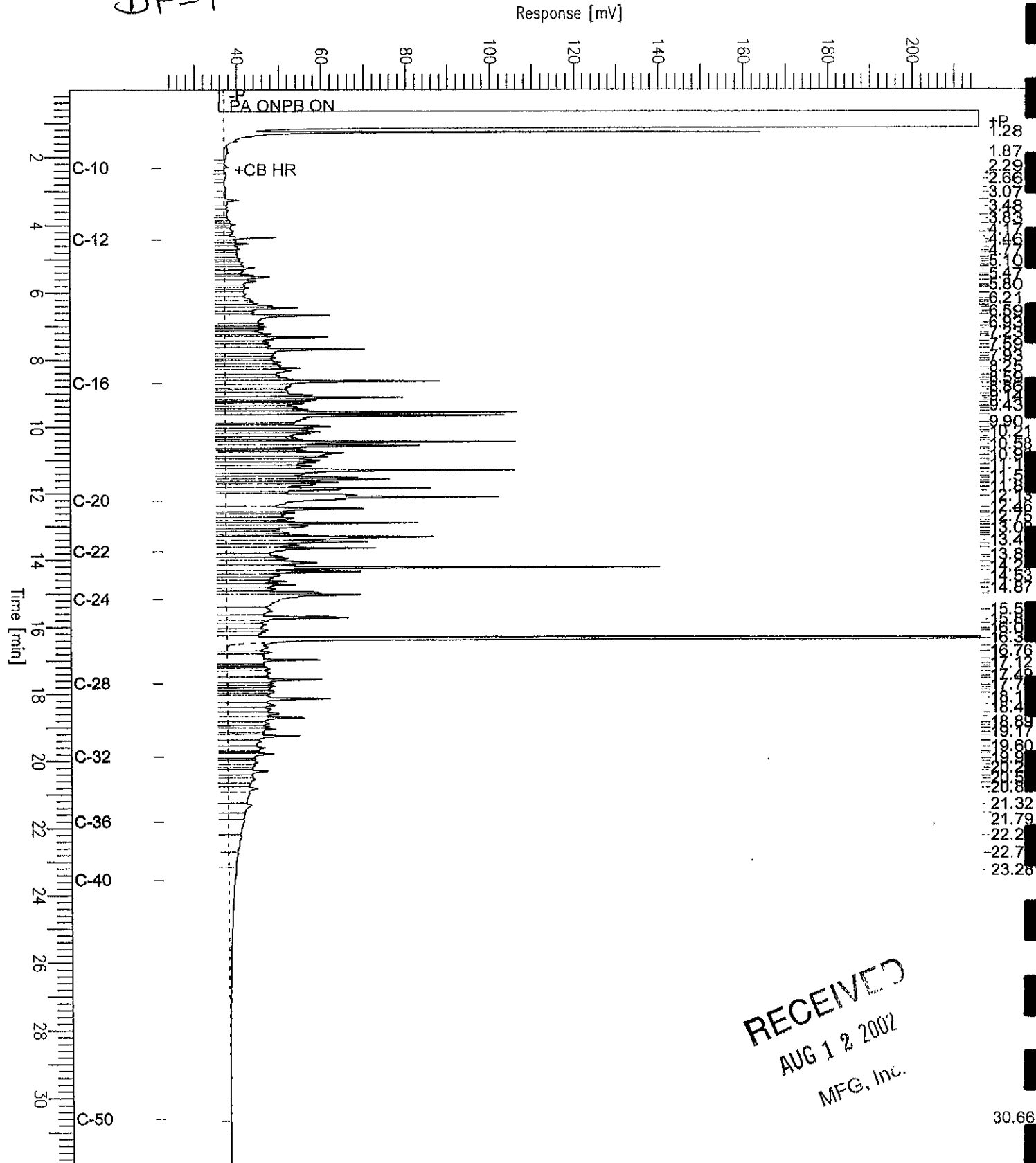
High Point : 215.84 mV

Scale Factor: 0.0

Plot Offset: 22 mV

Plot Scale: 193.6 mV

DP-1



Chromatogram

Sample Name : 159778-002,74090

Sample #: 74090

Page 1 of 1

FileName : G:\GC13\CHB\210B033.RAW

Date : 7/30/02 12:50 PM

Method : BTEH202.MTH

Time of Injection: 7/30/02 09:49 AM

Start Time : 0.01 min

End Time : 31.91 min

Low Point : 15.89 mV

High Point : 449.83 mV

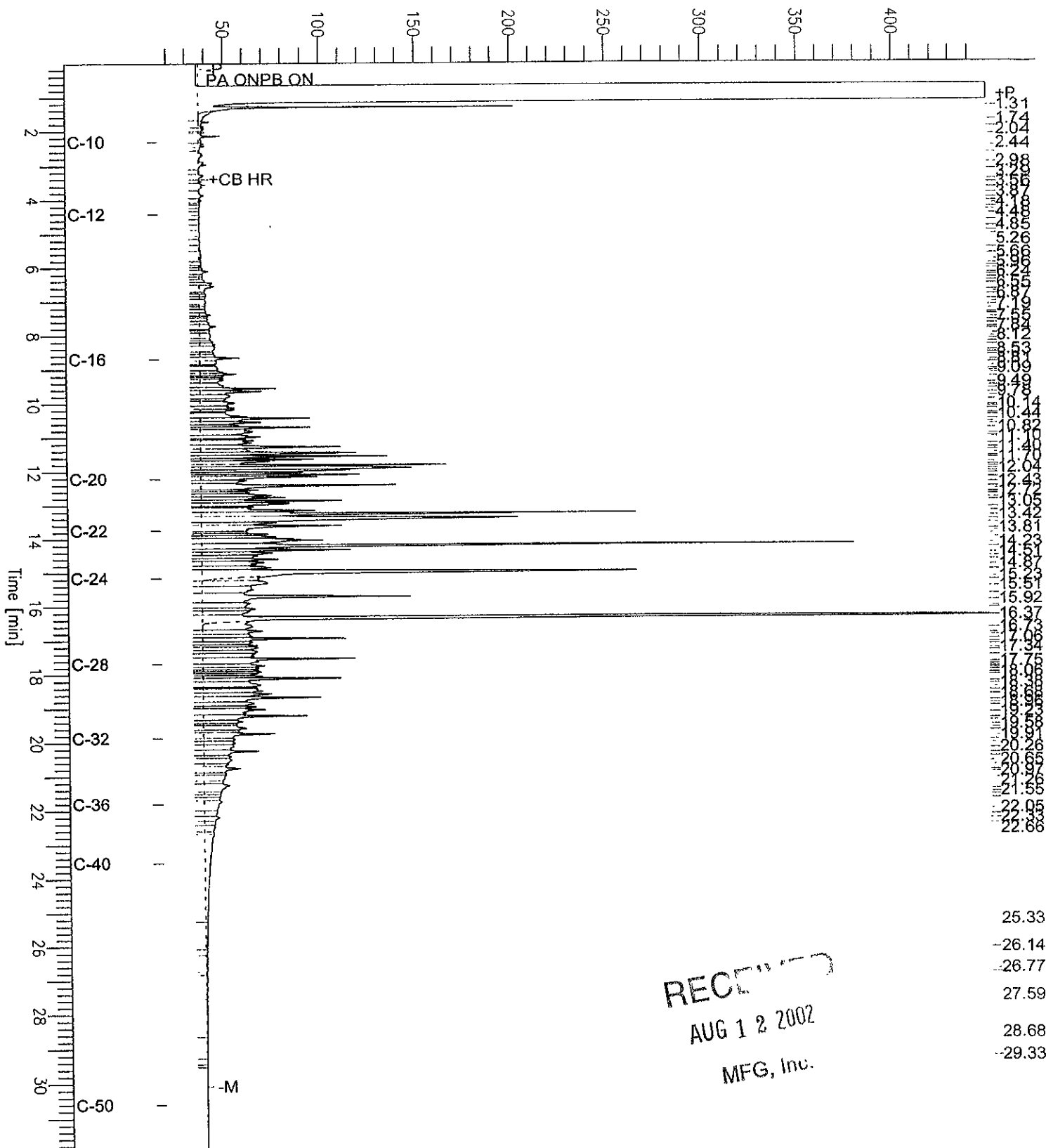
Scale Factor: 0.0

Plot Offset: 16 mV

Plot Scale: 433.9 mV

DP-2

Response [mV]



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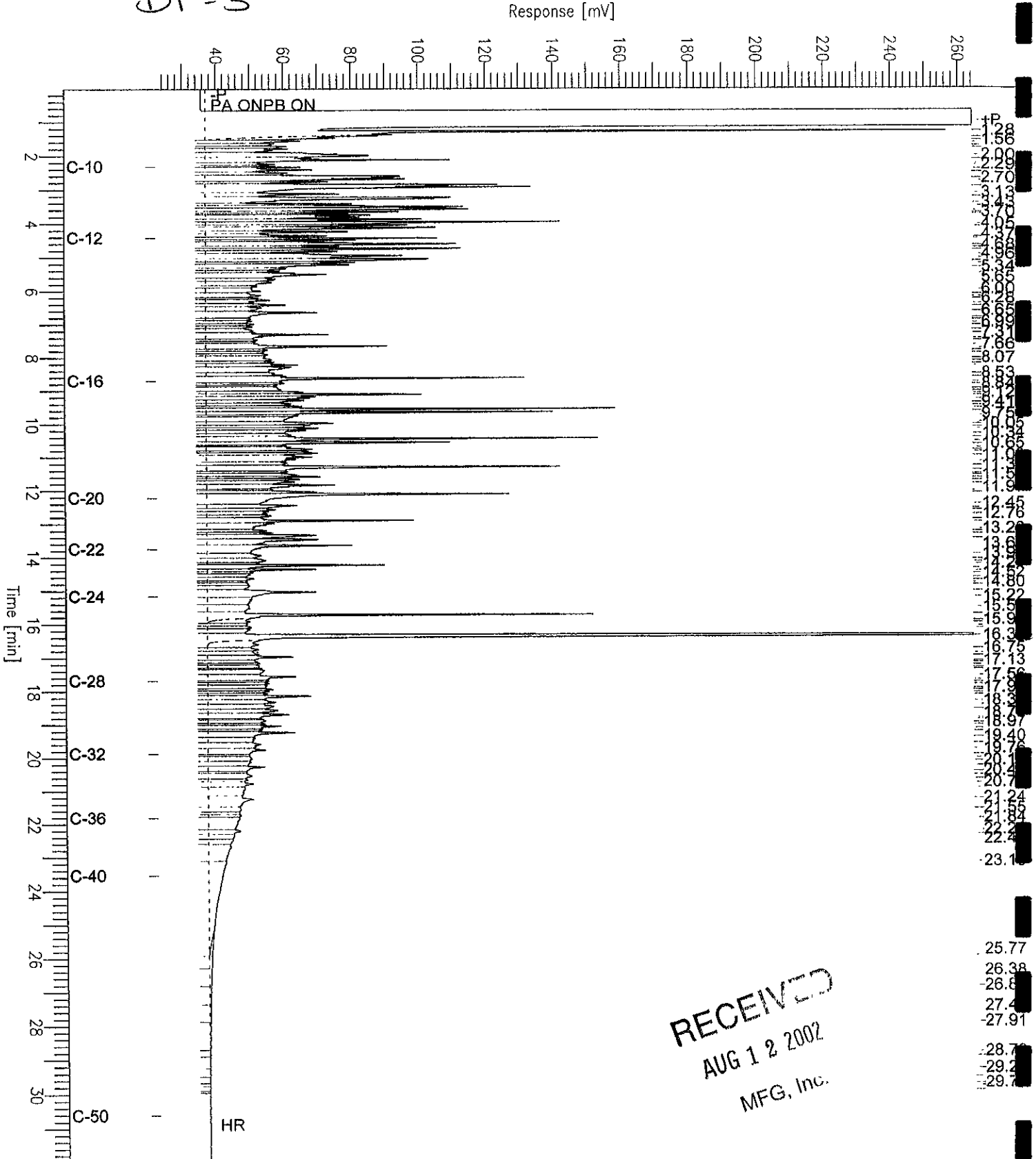
Chromatogram

Sample Name : 159778-003,74090
FileName : G:\GC13\CHB\210B034.RAW
Method : BTEH202.MTH
Start Time : 0.01 min
Scale Factor: 0.0

Sample #: 74090
Date : 7/30/02 12:52 PM
Time of Injection: 7/30/02 10:29 AM
Low Point : 22.19 mV
Plot Scale: 242.0 mV

Page 1 of 1

DP-3



Total Extractable Hydrocarbons			
Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	SHAKER TABLE
Project#:	030013	Analysis:	EPA 8015B (M)
Matrix:	Soil	Sampled:	07/19/02
Units:	mg/Kg	Received:	07/19/02
Basis:	as received	Prepared:	07/29/02
Diln Fac:	1.000	Analyzed:	07/30/02
Batch#:	74090		

Field ID: PL-1 3.5-4.0' Lab ID: 159778-004
 Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	140 H Y	1.0
Motor Oil C24-C36	48 L	5.0

Surrogate	%REC	Limits
Hexacosane	80	48-137

Field ID: PL-2 7.5-8.0' Lab ID: 159778-005
 Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	20 H Y	1.0
Motor Oil C24-C36	46 L	5.0

Surrogate	%REC	Limits
Hexacosane	72	48-137

Type: BLANK Cleanup Method: EPA 3630C
 Lab ID: QC185417

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	80	48-137

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

Sample Name : 159778-004,74090

Sample #: 74090

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FileName : G:\GC13\CHB\210B035.RAW

Date : 7/30/02 12:52 PM

Method : BTEH202.MTH

Time of Injection: 7/30/02 11:08 AM

Start Time : 0.01 min

End Time : 31.91 min

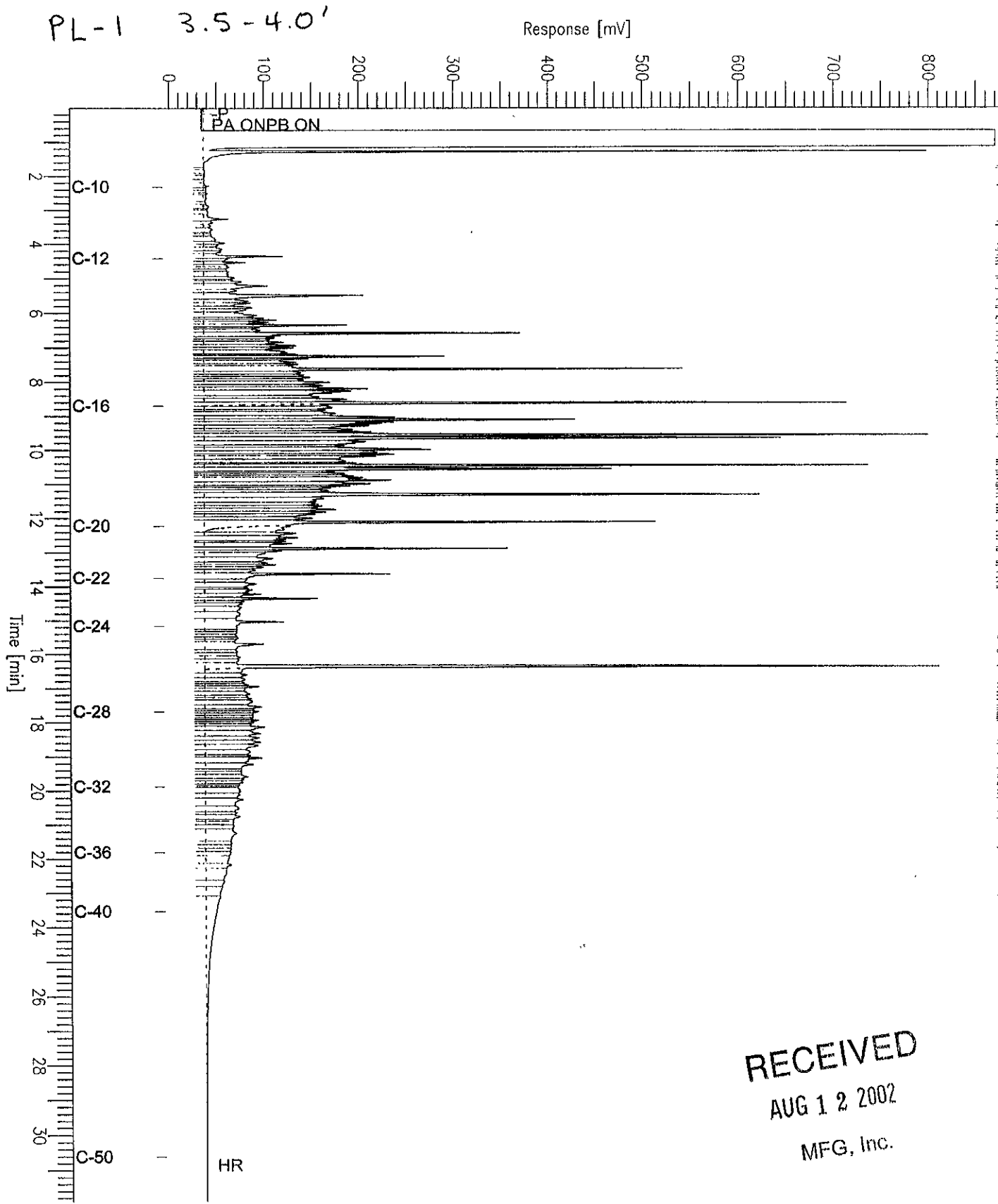
Low Point : -5.99 mV

High Point : 870.37 mV

Scale Factor: 0.0

Plot Offset: -6 mV

Plot Scale: 876.4 mV



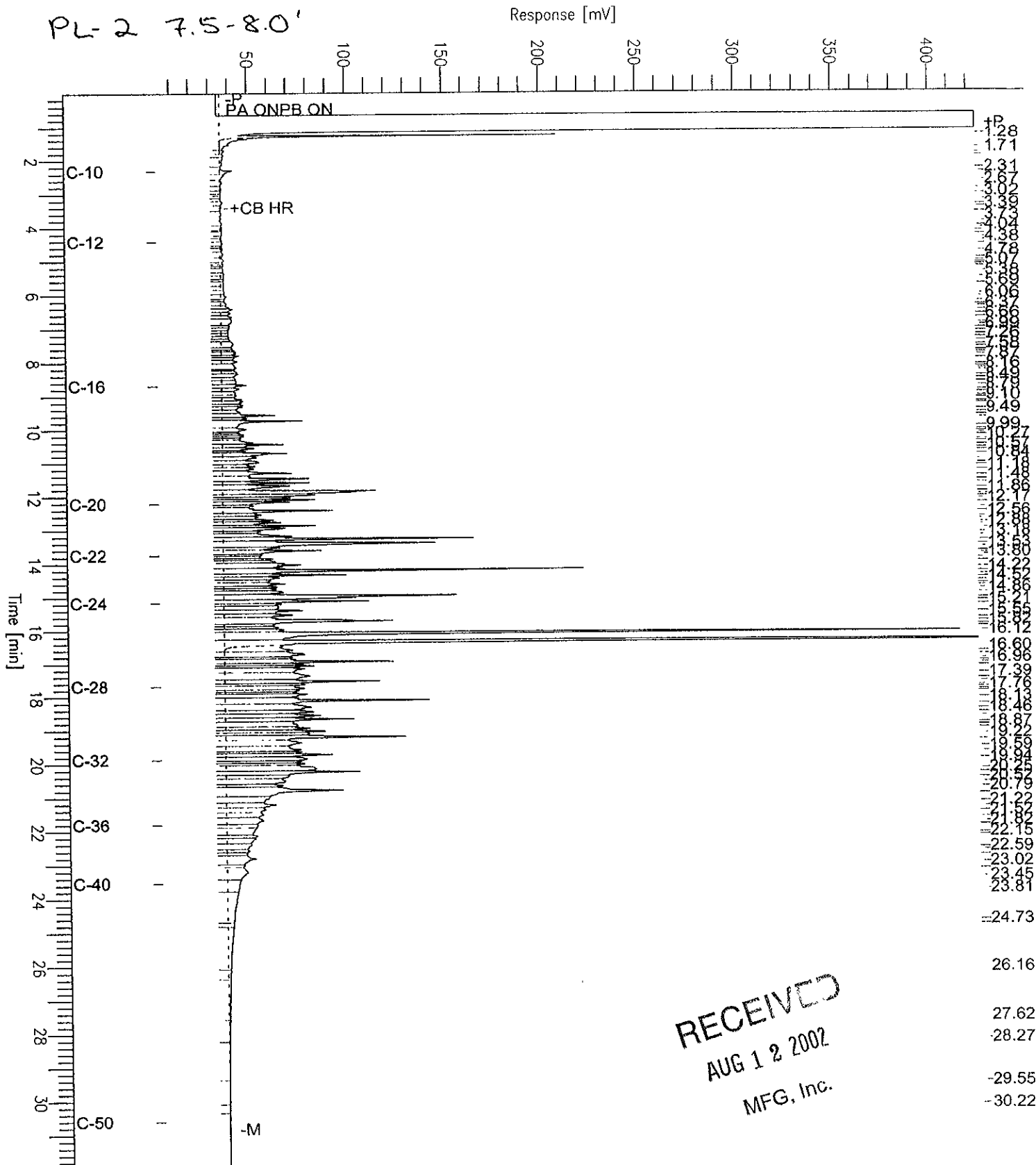
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30.01

Chromatogram

Sample Name : 159778-005,74090
FileName : G:\GC13\CHB\210B036.RAW
Method : BTEH202.MTH
Start Time : 0.01 min End Time : 31.91 min
Scale Factor : 0.0 Plot Offset : 3 mV

Sample #: 74090 Page 1 of 1
Date : 7/30/02 12:53 PM
Time of Injection: 7/30/02 11:47 AM
Low Point : 3.41 mV High Point : 424.41 mV
Plot Scale: 421.0 mV



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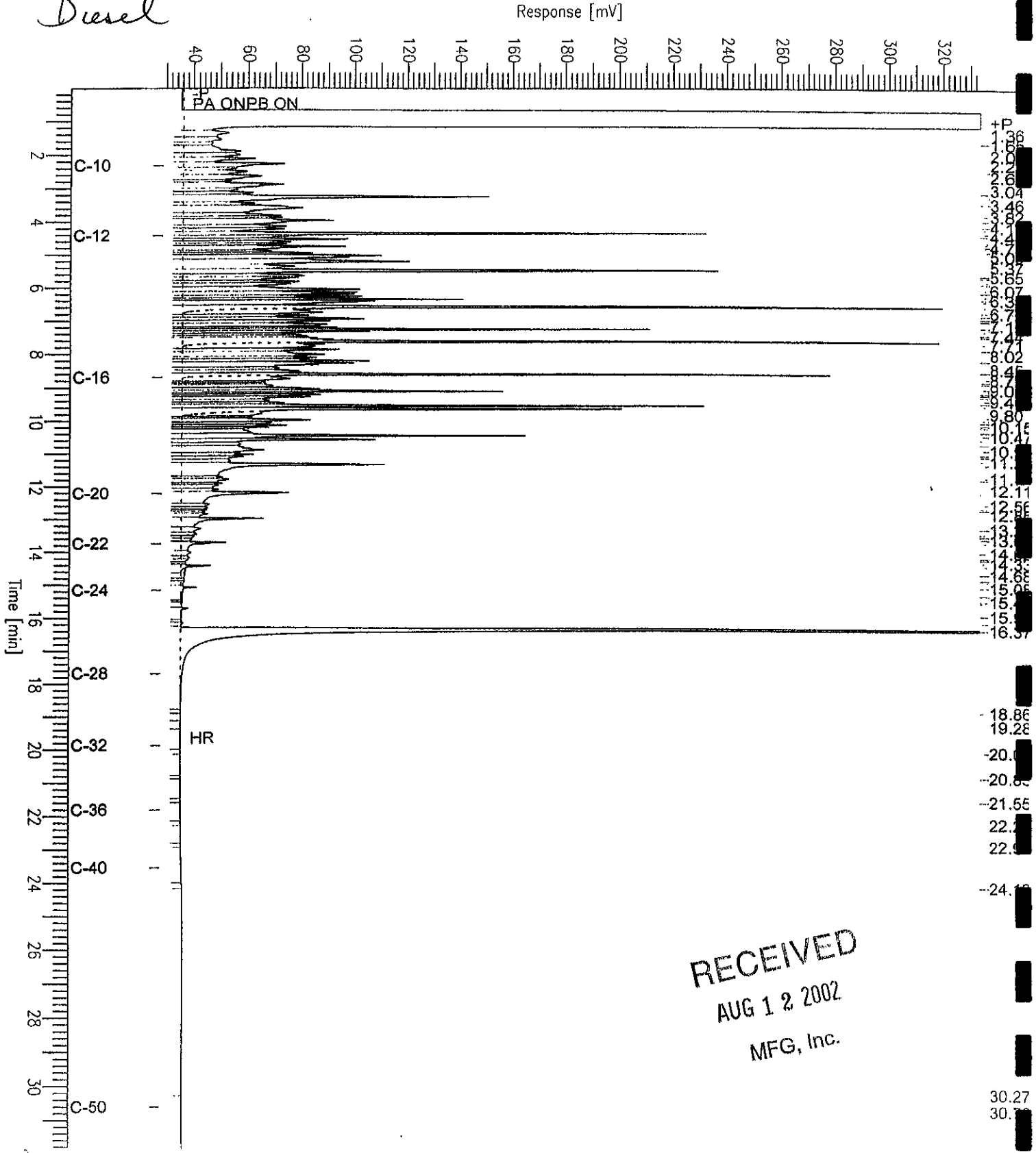
Chromatogram

Sample Name : ccv,02ws0995,ds1
FileName : G:\GC13\CHB\210B002.RAW
Method : BTEH202.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 31.91 min
Plot Offset: 29 mV

Sample #: 500mg/L
Date : 7/29/02 11:12 AM
Time of Injection: 7/29/02 08:22 AM
Low Point : 28.89 mV
Plot Scale: 304.6 mV

Diesel

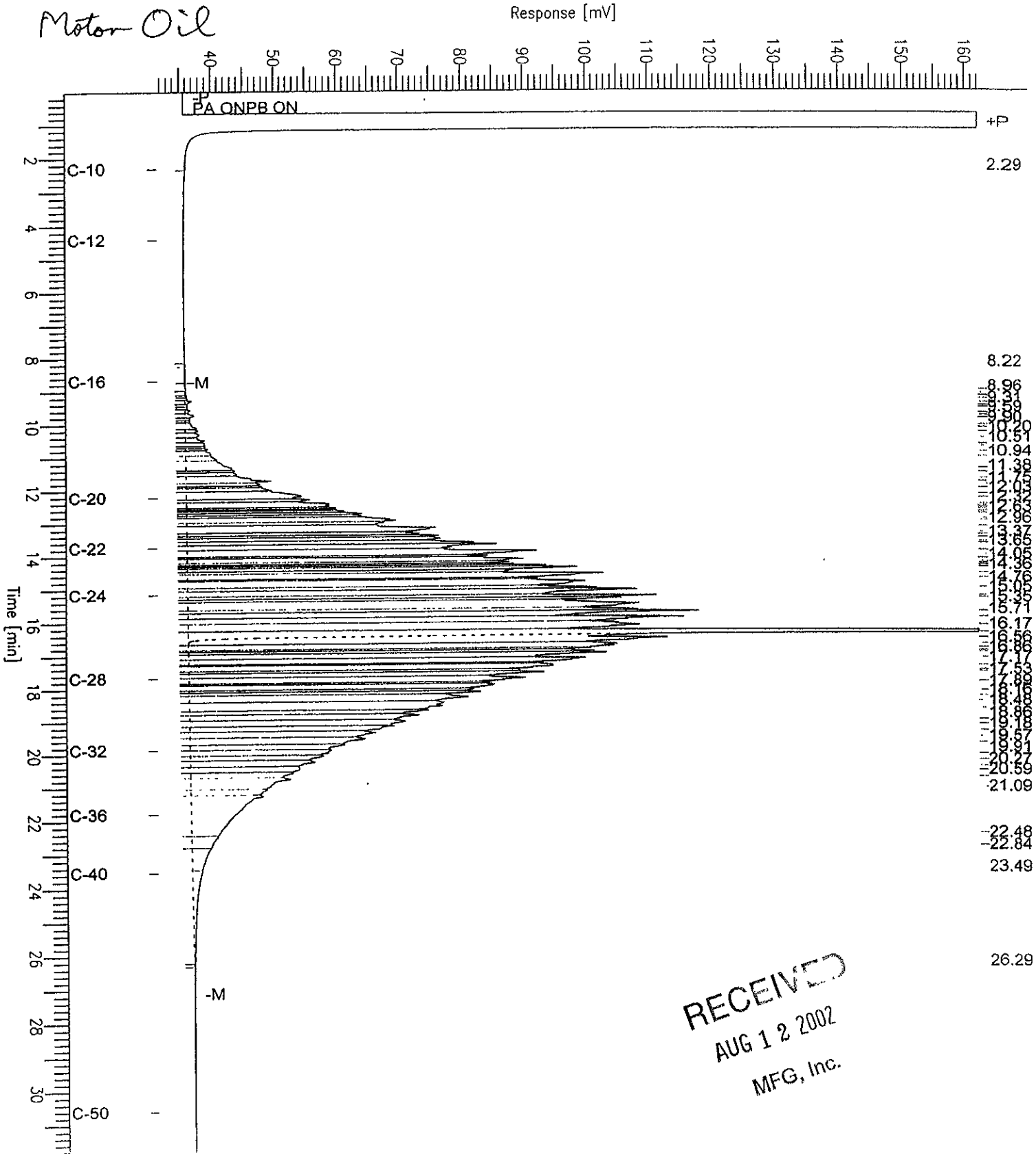


Chromatogram

Sample Name : ccv,02ws1044,mo
FileName : G:\GC13\CHB\210B003.RAW
Method : BTEH202.MTH
Start Time : 0.01 min
Scale Factor: 0.0

Sample #: 500mg/L
Date : 7/29/02 11:13 AM
Time of Injection: 7/29/02 09:01 AM
Low Point : 31.67 mV
Plot Scale: 130.4 mV

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Total Extractable Hydrocarbons

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	SHAKER TABLE
Project#:	030013	Analysis:	EPA 8015B (M)
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC185418	Batch#:	74090
Matrix:	Soil	Prepared:	07/29/02
Units:	mg/Kg	Analyzed:	07/30/02
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	TRHC	Limits
Diesel C10-C24	50.09	41.28	82	67-121
Surrogate	TRHC	Limits		
Hexacosane	87	48-137		

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Total Extractable Hydrocarbons			
Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	SHAKER TABLE
Project#:	030013	Analysis:	EPA 8015B (M)
Field ID:	ZZZZZZZZZZ	Batch#:	74090
MSS Lab ID:	159839-014	Sampled:	07/23/02
Matrix:	Soil	Received:	07/24/02
Units:	mg/Kg	Prepared:	07/29/02
Basis:	as received	Analyzed:	07/30/02
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC185419

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<0.8300	50.27	32.60	65	35-146

Surrogate	%REC	Limits
Hexacosane	69	48-137

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC185420

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.11	46.52	93	35-146	36	48

Surrogate	%REC	Limits
Hexacosane	99	48-137

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Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	DP-1	Diln Fac:	1.000
Lab ID:	159778-001	Batch#:	73885
Matrix:	Soil	Sampled:	07/19/02
Units:	ug/Kg	Received:	07/19/02
Basis:	as received	Analyzed:	07/19/02

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	15	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS			
Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	DP-1	Diln Fac:	1.000
Lab ID:	159778-001	Batch#:	73885
Matrix:	Soil	Sampled:	07/19/02
Units:	ug/Kg	Received:	07/19/02
Basis:	as received	Analyzed:	07/19/02

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

Surrogate	%REC	Limits
Dibromofluoromethane	96	74-124
1,2-Dichloroethane-d4	109	75-128
Toluene-d8	102	80-111
Bromofluorobenzene	110	75-127

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	DP-2	Basis:	as received
Lab ID:	159778-002	Sampled:	07/19/02
Matrix:	Soil	Received:	07/19/02
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	8.2	0.8197	73885	07/19/02
Chloromethane	ND	8.2	0.8197	73885	07/19/02
Vinyl Chloride	ND	8.2	0.8197	73885	07/19/02
Bromomethane	ND	8.2	0.8197	73885	07/19/02
Chloroethane	ND	8.2	0.8197	73885	07/19/02
Trichlorofluoromethane	ND	4.1	0.8197	73885	07/19/02
Acetone	ND	16	0.8197	73885	07/19/02
Freon 113	ND	4.1	0.8197	73885	07/19/02
1,1-Dichloroethene	ND	4.1	0.8197	73885	07/19/02
Methylene Chloride	ND	16	0.8197	73885	07/19/02
Carbon Disulfide	ND	4.1	0.8197	73885	07/19/02
MTBE	680	130	25.00	73909	07/22/02
trans-1,2-Dichloroethene	ND	4.1	0.8197	73885	07/19/02
Vinyl Acetate	ND	41	0.8197	73885	07/19/02
1,1-Dichloroethane	ND	4.1	0.8197	73885	07/19/02
2-Butanone	ND	8.2	0.8197	73885	07/19/02
cis-1,2-Dichloroethene	ND	4.1	0.8197	73885	07/19/02
2,2-Dichloropropane	ND	4.1	0.8197	73885	07/19/02
Chloroform	ND	4.1	0.8197	73885	07/19/02
Bromochloromethane	ND	4.1	0.8197	73885	07/19/02
1,1,1-Trichloroethane	ND	4.1	0.8197	73885	07/19/02
1,1-Dichloropropene	ND	4.1	0.8197	73885	07/19/02
Carbon Tetrachloride	ND	4.1	0.8197	73885	07/19/02
1,2-Dichloroethane	ND	4.1	0.8197	73885	07/19/02
Benzene	ND	4.1	0.8197	73885	07/19/02
Trichloroethene	ND	4.1	0.8197	73885	07/19/02
1,2-Dichloropropane	ND	4.1	0.8197	73885	07/19/02
Bromodichloromethane	ND	4.1	0.8197	73885	07/19/02
Dibromomethane	ND	4.1	0.8197	73885	07/19/02
4-Methyl-2-Pentanone	ND	8.2	0.8197	73885	07/19/02
cis-1,3-Dichloropropene	ND	4.1	0.8197	73885	07/19/02
Toluene	ND	4.1	0.8197	73885	07/19/02
trans-1,3-Dichloropropene	ND	4.1	0.8197	73885	07/19/02
1,1,2-Trichloroethane	ND	4.1	0.8197	73885	07/19/02
2-Hexanone	ND	8.2	0.8197	73885	07/19/02
1,3-Dichloropropane	ND	4.1	0.8197	73885	07/19/02
Tetrachloroethene	ND	4.1	0.8197	73885	07/19/02
Dibromochloromethane	ND	4.1	0.8197	73885	07/19/02

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	DP-2	Basis:	as received
Lab ID:	159778-002	Sampled:	07/19/02
Matrix:	Soil	Received:	07/19/02
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,2-Dibromoethane	ND	4.1	0.8197	73885	07/19/02
Chlorobenzene	ND	4.1	0.8197	73885	07/19/02
1,1,1,2-Tetrachloroethane	ND	4.1	0.8197	73885	07/19/02
Ethylbenzene	ND	4.1	0.8197	73885	07/19/02
m,p-Xylenes	ND	4.1	0.8197	73885	07/19/02
o-Xylene	ND	4.1	0.8197	73885	07/19/02
Styrene	ND	4.1	0.8197	73885	07/19/02
Bromoform	ND	4.1	0.8197	73885	07/19/02
Isopropylbenzene	ND	4.1	0.8197	73885	07/19/02
1,1,2,2-Tetrachloroethane	ND	4.1	0.8197	73885	07/19/02
1,2,3-Trichloropropane	ND	4.1	0.8197	73885	07/19/02
Propylbenzene	ND	4.1	0.8197	73885	07/19/02
Bromobenzene	ND	4.1	0.8197	73885	07/19/02
1,3,5-Trimethylbenzene	ND	4.1	0.8197	73885	07/19/02
2-Chlorotoluene	ND	4.1	0.8197	73885	07/19/02
4-Chlorotoluene	ND	4.1	0.8197	73885	07/19/02
tert-Butylbenzene	ND	4.1	0.8197	73885	07/19/02
1,2,4-Trimethylbenzene	ND	4.1	0.8197	73885	07/19/02
sec-Butylbenzene	ND	4.1	0.8197	73885	07/19/02
para-Isopropyl Toluene	ND	4.1	0.8197	73885	07/19/02
1,3-Dichlorobenzene	ND	4.1	0.8197	73885	07/19/02
1,4-Dichlorobenzene	ND	4.1	0.8197	73885	07/19/02
n-Butylbenzene	ND	4.1	0.8197	73885	07/19/02
1,2-Dichlorobenzene	ND	4.1	0.8197	73885	07/19/02
1,2-Dibromo-3-Chloropropane	ND	4.1	0.8197	73885	07/19/02
1,2,4-Trichlorobenzene	ND	4.1	0.8197	73885	07/19/02
Hexachlorobutadiene	ND	4.1	0.8197	73885	07/19/02
Naphthalene	ND	4.1	0.8197	73885	07/19/02
1,2,3-Trichlorobenzene	ND	4.1	0.8197	73885	07/19/02

Surrogate	%REC	Limbs	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	92	74-124	0.8197	73885	07/19/02
1,2-Dichloroethane-d4	105	75-128	0.8197	73885	07/19/02
Toluene-d8	102	80-111	0.8197	73885	07/19/02
Bromofluorobenzene	109	75-127	0.8197	73885	07/19/02

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	DP-3	Diln Fac:	40.00
Lab ID:	159778-003	Batch#:	74051
Matrix:	Soil	Sampled:	07/19/02
Units:	ug/Kg	Received:	07/19/02
Basis:	as received	Analyzed:	07/26/02

Analyte	Result	RL
Freon 12	ND	400
Chloromethane	ND	400
Vinyl Chloride	ND	400
Bromomethane	ND	400
Chloroethane	ND	400
Trichlorofluoromethane	ND	200
Acetone	ND	800
Freon 113	ND	200
1,1-Dichloroethene	ND	200
Methylene Chloride	ND	800
Carbon Disulfide	ND	200
MTBE	6,800	200
trans-1,2-Dichloroethene	ND	200
Vinyl Acetate	ND	2,000
1,1-Dichloroethane	ND	200
2-Butanone	ND	400
cis-1,2-Dichloroethene	ND	200
2,2-Dichloropropane	ND	200
Chloroform	ND	200
Bromochloromethane	ND	200
1,1,1-Trichloroethane	ND	200
1,1-Dichloropropene	ND	200
Carbon Tetrachloride	ND	200
1,2-Dichloroethane	ND	200
Benzene	ND	200
Trichloroethene	ND	200
1,2-Dichloropropane	ND	200
Bromodichloromethane	ND	200
Dibromomethane	ND	200
4-Methyl-2-Pentanone	ND	400
cis-1,3-Dichloropropene	ND	200
Toluene	ND	200
trans-1,3-Dichloropropene	ND	200
1,1,2-Trichloroethane	ND	200
2-Hexanone	ND	400
1,3-Dichloropropane	ND	200
Tetrachloroethene	ND	200

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 159778	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5035
Project#: 030013	Analysis: EPA 8260B
Field ID: DP-3	Diln Fac: 40.00
Lab ID: 159778-003	Batch#: 74051
Matrix: Soil	Sampled: 07/19/02
Units: ug/Kg	Received: 07/19/02
Basis: as received	Analyzed: 07/26/02

Analyte	Result	RL
Dibromochloromethane	ND	200
1,2-Dibromoethane	ND	200
Chlorobenzene	ND	200
1,1,1,2-Tetrachloroethane	ND	200
Ethylbenzene	ND	200
m,p-Xylenes	ND	200
o-Xylene	ND	200
Styrene	ND	200
Bromoform	ND	200
Isopropylbenzene	ND	200
1,1,2,2-Tetrachloroethane	ND	200
1,2,3-Trichloropropane	ND	200
Propylbenzene	ND	200
Bromobenzene	ND	200
1,3,5-Trimethylbenzene	ND	200
2-Chlorotoluene	ND	200
4-Chlorotoluene	ND	200
tert-Butylbenzene	ND	200
1,2,4-Trimethylbenzene	ND	200
sec-Butylbenzene	ND	200
para-Isopropyl Toluene	ND	200
1,3-Dichlorobenzene	ND	200
1,4-Dichlorobenzene	ND	200
n-Butylbenzene	ND	200
1,2-Dichlorobenzene	ND	200
1,2-Dibromo-3-Chloropropane	ND	200
1,2,4-Trichlorobenzene	ND	200
Hexachlorobutadiene	ND	200
Naphthalene	ND	200
1,2,3-Trichlorobenzene	ND	200

Surrogate	%REC	Limits
Dibromofluoromethane	91	74-124
1,2-Dichloroethane-d4	115	75-128
Toluene-d8	102	80-111
Bromofluorobenzene	101	75-127

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	PL-1 3.5-4.0'	Basis:	as received
Lab ID:	159778-004	Sampled:	07/19/02
Matrix:	Soil	Received:	07/19/02
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	8.9	0.8929	73885	07/19/02
Chloromethane	ND	8.9	0.8929	73885	07/19/02
Vinyl Chloride	ND	8.9	0.8929	73885	07/19/02
Bromomethane	ND	8.9	0.8929	73885	07/19/02
Chloroethane	ND	8.9	0.8929	73885	07/19/02
Trichlorofluoromethane	ND	4.5	0.8929	73885	07/19/02
Acetone	ND	18	0.8929	73885	07/19/02
Freon 113	ND	4.5	0.8929	73885	07/19/02
1,1-Dichloroethene	ND	4.5	0.8929	73885	07/19/02
Methylene Chloride	ND	18	0.8929	73885	07/19/02
Carbon Disulfide	ND	4.5	0.8929	73885	07/19/02
MTBE	1,300	130	25.00	74051	07/26/02
trans-1,2-Dichloroethene	ND	4.5	0.8929	73885	07/19/02
Vinyl Acetate	ND	45	0.8929	73885	07/19/02
1,1-Dichloroethane	ND	4.5	0.8929	73885	07/19/02
2-Butanone	ND	8.9	0.8929	73885	07/19/02
cis-1,2-Dichloroethene	ND	4.5	0.8929	73885	07/19/02
2,2-Dichloropropane	ND	4.5	0.8929	73885	07/19/02
Chloroform	ND	4.5	0.8929	73885	07/19/02
Bromochloromethane	ND	4.5	0.8929	73885	07/19/02
1,1,1-Trichloroethane	ND	4.5	0.8929	73885	07/19/02
1,1-Dichloropropene	ND	4.5	0.8929	73885	07/19/02
Carbon Tetrachloride	ND	4.5	0.8929	73885	07/19/02
1,2-Dichloroethane	ND	4.5	0.8929	73885	07/19/02
Benzene	ND	4.5	0.8929	73885	07/19/02
Trichloroethene	ND	4.5	0.8929	73885	07/19/02
1,2-Dichloropropane	ND	4.5	0.8929	73885	07/19/02
Bromodichloromethane	ND	4.5	0.8929	73885	07/19/02
Dibromomethane	ND	4.5	0.8929	73885	07/19/02
4-Methyl-2-Pentanone	ND	8.9	0.8929	73885	07/19/02
cis-1,3-Dichloropropene	ND	4.5	0.8929	73885	07/19/02
Toluene	ND	4.5	0.8929	73885	07/19/02
trans-1,3-Dichloropropene	ND	4.5	0.8929	73885	07/19/02
1,1,2-Trichloroethane	ND	4.5	0.8929	73885	07/19/02
2-Hexanone	ND	8.9	0.8929	73885	07/19/02
1,3-Dichloropropane	ND	4.5	0.8929	73885	07/19/02
Tetrachloroethene	ND	4.5	0.8929	73885	07/19/02
Dibromochloromethane	ND	4.5	0.8929	73885	07/19/02

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 159778	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5035
Project#: 030013	Analysis: EPA 8260B
Field ID: PL-1 3.5-4.0'	Basis: as received
Lab ID: 159778-004	Sampled: 07/19/02
Matrix: Soil	Received: 07/19/02
Units: ug/Kg	

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,2-Dibromoethane	ND	4.5	0.8929	73885	07/19/02
Chlorobenzene	ND	4.5	0.8929	73885	07/19/02
1,1,1,2-Tetrachloroethane	ND	4.5	0.8929	73885	07/19/02
Ethylbenzene	ND	4.5	0.8929	73885	07/19/02
m,p-Xylenes	ND	4.5	0.8929	73885	07/19/02
o-Xylene	ND	4.5	0.8929	73885	07/19/02
Styrene	ND	4.5	0.8929	73885	07/19/02
Bromoform	ND	4.5	0.8929	73885	07/19/02
Isopropylbenzene	ND	4.5	0.8929	73885	07/19/02
1,1,2,2-Tetrachloroethane	ND	4.5	0.8929	73885	07/19/02
1,2,3-Trichloropropane	ND	4.5	0.8929	73885	07/19/02
Propylbenzene	ND	4.5	0.8929	73885	07/19/02
Bromobenzene	ND	4.5	0.8929	73885	07/19/02
1,3,5-Trimethylbenzene	ND	4.5	0.8929	73885	07/19/02
2-Chlorotoluene	ND	4.5	0.8929	73885	07/19/02
4-Chlorotoluene	ND	4.5	0.8929	73885	07/19/02
tert-Butylbenzene	ND	4.5	0.8929	73885	07/19/02
1,2,4-Trimethylbenzene	ND	4.5	0.8929	73885	07/19/02
sec-Butylbenzene	ND	4.5	0.8929	73885	07/19/02
para-Isopropyl Toluene	ND	4.5	0.8929	73885	07/19/02
1,3-Dichlorobenzene	ND	4.5	0.8929	73885	07/19/02
1,4-Dichlorobenzene	ND	4.5	0.8929	73885	07/19/02
n-Butylbenzene	ND	4.5	0.8929	73885	07/19/02
1,2-Dichlorobenzene	ND	4.5	0.8929	73885	07/19/02
1,2-Dibromo-3-Chloropropane	ND	4.5	0.8929	73885	07/19/02
1,2,4-Trichlorobenzene	ND	4.5	0.8929	73885	07/19/02
Hexachlorobutadiene	ND	4.5	0.8929	73885	07/19/02
Naphthalene	ND	4.5	0.8929	73885	07/19/02
1,2,3-Trichlorobenzene	ND	4.5	0.8929	73885	07/19/02

Surrogate	REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	94	74-124	0.8929	73885	07/19/02
1,2-Dichloroethane-d4	113	75-128	0.8929	73885	07/19/02
Toluene-d8	104	80-111	0.8929	73885	07/19/02
Bromofluorobenzene	112	75-127	0.8929	73885	07/19/02

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	PL-2 7.5-8.0'	Diln Fac:	1.064
Lab ID:	159778-005	Batch#:	73885
Matrix:	Soil	Sampled:	07/19/02
Units:	ug/Kg	Received:	07/19/02
Basis:	as received	Analyzed:	07/19/02

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.3
Acetone	ND	21
Freon 113	ND	5.3
1,1-Dichloroethene	ND	5.3
Methylene Chloride	ND	21
Carbon Disulfide	ND	5.3
MTBE	39	5.3
trans-1,2-Dichloroethene	ND	5.3
Vinyl Acetate	ND	53
1,1-Dichloroethane	ND	5.3
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.3
2,2-Dichloropropane	ND	5.3
Chloroform	ND	5.3
Bromochloromethane	ND	5.3
1,1,1-Trichloroethane	ND	5.3
1,1-Dichloropropene	ND	5.3
Carbon Tetrachloride	ND	5.3
1,2-Dichloroethane	ND	5.3
Benzene	ND	5.3
Trichloroethene	ND	5.3
1,2-Dichloropropane	ND	5.3
Bromodichloromethane	ND	5.3
Dibromomethane	ND	5.3
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.3
Toluene	ND	5.3
trans-1,3-Dichloropropene	ND	5.3
1,1,2-Trichloroethane	ND	5.3
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.3
Tetrachloroethene	ND	5.3

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 159778	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5035
Project#: 030013	Analysis: EPA 8260B
Field ID: PL-2 7.5-8.0'	Diln Fac: 1.064
Lab ID: 159778-005	Batch#: 73885
Matrix: Soil	Sampled: 07/19/02
Units: ug/Kg	Received: 07/19/02
Basis: as received	Analyzed: 07/19/02

Analysis	Result	RL
Dibromochloromethane	ND	5.3
1,2-Dibromoethane	ND	5.3
Chlorobenzene	ND	5.3
1,1,1,2-Tetrachloroethane	ND	5.3
Ethylbenzene	ND	5.3
m,p-Xylenes	ND	5.3
o-Xylene	ND	5.3
Styrene	ND	5.3
Bromoform	ND	5.3
Isopropylbenzene	ND	5.3
1,1,2,2-Tetrachloroethane	ND	5.3
1,2,3-Trichloropropane	ND	5.3
Propylbenzene	ND	5.3
Bromobenzene	ND	5.3
1,3,5-Trimethylbenzene	ND	5.3
2-Chlorotoluene	ND	5.3
4-Chlorotoluene	ND	5.3
tert-Butylbenzene	ND	5.3
1,2,4-Trimethylbenzene	ND	5.3
sec-Butylbenzene	ND	5.3
para-Isopropyl Toluene	ND	5.3
1,3-Dichlorobenzene	ND	5.3
1,4-Dichlorobenzene	ND	5.3
n-Butylbenzene	ND	5.3
1,2-Dichlorobenzene	ND	5.3
1,2-Dibromo-3-Chloropropane	ND	5.3
1,2,4-Trichlorobenzene	ND	5.3
Hexachlorobutadiene	ND	5.3
Naphthalene	ND	5.3
1,2,3-Trichlorobenzene	ND	5.3

Surrogate	%REC	Limits
Dibromofluoromethane	98	74-124
1,2-Dichloroethane-d4	115	75-128
Toluene-d8	105	80-111
Bromofluorobenzene	111	75-127

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC184626	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73885
Units:	ug/Kg	Analyzed:	07/19/02

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

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B .
Type:	BLANK	Basis:	as received
Lab ID:	QC184626	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73885
Units:	ug/Kg	Analyzed:	07/19/02

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

Surrogate	REC	Limits
Dibromofluoromethane	93	74-124
1,2-Dichloroethane-d4	108	75-128
Toluene-d8	102	80-111
Bromofluorobenzene	110	75-127

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ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184726	Batch#:	73909
Matrix:	Water	Analyzed:	07/22/02
Units:	ug/L		

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

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184726	Batch#:	73909
Matrix:	Water	Analyzed:	07/22/02
Units:	ug/L		

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

Surrogate	REC	Limit
Dibromofluoromethane	96	74-124
1,2-Dichloroethane-d4	114	75-128
Toluene-d8	102	80-111
Bromofluorobenzene	119	75-127

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC185284	Batch#:	74051
Matrix:	Water	Analyzed:	07/26/02
Units:	ug/L		

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

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC185284	Batch#:	74051
Matrix:	Water	Analyzed:	07/26/02
Units:	ug/L		

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

Surrogate	%REC	Limite
Dibromofluoromethane	96	74-124
1,2-Dichloroethane-d4	107	75-128
Toluene-d8	96	80-111
Bromofluorobenzene	95	75-127

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC184625	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73885
Units:	ug/Kg	Analyzed:	07/19/02

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	42.26	85	70-131
Benzene	50.00	43.23	86	77-120
Trichloroethene	50.00	45.66	91	79-120
Toluene	50.00	41.94	84	80-120
Chlorobenzene	50.00	43.37	87	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	74-124
1,2-Dichloroethane-d4	114	75-128
Toluene-d8	101	80-111
Bromofluorobenzene	107	75-127

REC
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Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC184725	Batch#:	73909
Matrix:	Water	Analyzed:	07/22/02
Units:	ug/L		

Analyte	Spiked	Result	#REC	Limits
1,1-Dichloroethene	50.00	45.86	92	70-131
Benzene	50.00	48.25	97	77-120
Trichloroethene	50.00	52.02	104	79-120
Toluene	50.00	47.63	95	80-120
Chlorobenzene	50.00	47.95	96	80-120

Surrogate	#REC	Limits
Dibromofluoromethane	98	74-124
1,2-Dichloroethane-d4	113	75-128
Toluene-d8	104	80-111
Bromofluorobenzene	119	75-127

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Purgeable Organics by GC/MS			
Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC185283	Batch#:	74051
Matrix:	Water	Analyzed:	07/26/02
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	44.33	89	70-131
Benzene	50.00	45.72	91	77-120
Trichloroethene	50.00	48.67	97	79-120
Toluene	50.00	46.78	94	80-120
Chlorobenzene	50.00	48.87	98	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	91	74-124
1,2-Dichloroethane-d4	106	75-128
Toluene-d8	96	80-111
Bromofluorobenzene	95	75-127

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Purgeable Organics by GC/MS			
Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Basis:	as received
MSS Lab ID:	159762-016	Batch#:	73885
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/19/02

Type: MS Diln Fac: 0.9804
 Lab ID: QC184639 Analyzed: 07/19/02

Analyte	MSS Result	Spiked	Result	UREC	Limits
1,1-Dichloroethene	<0.2000	49.02	42.16	86	57-134
Benzene	4.355	49.02	45.35	84	55-125
Trichloroethene	<0.2100	49.02	53.33	109	37-133
Toluene	9.708	49.02	44.67	71	48-131
Chlorobenzene	<0.3000	49.02	42.68	87	42-128

Surrogate	UREC	Limits
Dibromofluoromethane	101	74-124
1,2-Dichloroethane-d4	114	75-128
Toluene-d8	106	80-111
Bromofluorobenzene	115	75-127

Type: MSD Diln Fac: 1.087
 Lab ID: QC184640 Analyzed: 07/20/02

Analyte	Spiked	Result	UREC	Limits	RPD	Lim
1,1-Dichloroethene	54.35	47.76	88	57-134	2	20
Benzene	54.35	49.96	84	55-125	0	20
Trichloroethene	54.35	59.54	110	37-133	1	21
Toluene	54.35	49.32	73	48-131	1	20
Chlorobenzene	54.35	46.91	86	42-128	1	23

Surrogate	UREC	Limits
Dibromofluoromethane	102	74-124
1,2-Dichloroethane-d4	112	75-128
Toluene-d8	103	80-111
Bromofluorobenzene	110	75-127

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Purgeable Organics by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	DP-2	Diln Fac:	25.00
MSS Lab ID:	159778-002	Batch#:	73909
Matrix:	Soil	Sampled:	07/19/02
Units:	ug/Kg	Received:	07/19/02
Basis:	as received	Analyzed:	07/22/02

Type: MS Lab ID: QC184748

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<4.900	1,250	1,050	84	57-134
Benzene	12.25	1,250	1,136	90	55-125
Trichloroethene	<5.100	1,250	1,236	99	37-133
Toluene	<4.500	1,250	1,113	89	48-131
Chlorobenzene	<7.300	1,250	1,107	89	42-128

Surrogate	%REC	Limits
Dibromofluoromethane	99	74-124
1,2-Dichloroethane-d4	117	75-128
Toluene-d8	105	80-111
Bromofluorobenzene	123	75-127

Type: MSD Lab ID: QC184749

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	1,250	1,038	83	57-134	1	20
Benzene	1,250	1,144	91	55-125	1	20
Trichloroethene	1,250	1,240	99	37-133	0	21
Toluene	1,250	1,090	87	48-131	2	20
Chlorobenzene	1,250	1,138	91	42-128	3	23

Surrogate	%REC	Limits
Dibromofluoromethane	98	74-124
1,2-Dichloroethane-d4	116	75-128
Toluene-d8	106	80-111
Bromofluorobenzene	125	75-127

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Purgeable Organics by GC/MS			
Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	50.00
MSS Lab ID:	159789-001	Batch#:	74051
Matrix:	Water	Sampled:	07/19/02
Units:	ug/L	Received:	07/20/02

Type: MS Analyzed: 07/26/02
 Lab ID: QC185305

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<14.00	2,500	1,815	73	57-134
Benzene	<16.00	2,500	2,093	84	55-125
Trichloroethene	<12.00	2,500	2,200	88	37-133
Toluene	<15.00	2,500	2,181	87	48-131
Chlorobenzene	<13.00	2,500	2,331	93	42-128

Surrogate	%REC	Limits
Dibromofluoromethane	78	74-124
1,2-Dichloroethane-d4	87	75-128
Toluene-d8	92	80-111
Bromofluorobenzene	87	75-127

Type: MSD Analyzed: 07/27/02
 Lab ID: QC185306

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	2,500	1,976	79	57-134	8	20
Benzene	2,500	2,159	86	55-125	3	20
Trichloroethene	2,500	2,147	86	37-133	2	21
Toluene	2,500	2,328	93	48-131	6	20
Chlorobenzene	2,500	2,438	98	42-128	4	23

Surrogate	%REC	Limits
Dibromofluoromethane	78	74-124
1,2-Dichloroethane-d4	82	75-128
Toluene-d8	95	80-111
Bromofluorobenzene	87	75-127

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Gasoline Oxygenates by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Basis:	as received	Received:	07/19/02
Sampled:	07/19/02		

Field ID:	DP-1	Units:	ug/Kg
Type:	SAMPLE	Diln Fac:	1.000
Lab ID:	159778-001	Batch#:	73885
Matrix:	Soil	Analyzed:	07/19/02

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	15	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0

Surrogate	REC	Limite
Dibromofluoromethane	96	74-124
1,2-Dichloroethane-d4	109	75-128
Toluene-d8	102	80-111
Bromofluorobenzene	110	75-127

Field ID:	DP-2	Matrix:	Soil
Type:	SAMPLE	Units:	ug/Kg
Lab ID:	159778-002		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
tert-Butyl Alcohol (TBA)	150	82	0.8197	73885	07/19/02
MTBE	680	130	25.00	73909	07/22/02
Isopropyl Ether (DIPE)	ND	4.1	0.8197	73885	07/19/02
Ethyl tert-Butyl Ether (ETBE)	ND	4.1	0.8197	73885	07/19/02
Methyl tert-Amyl Ether (TAME)	ND	4.1	0.8197	73885	07/19/02

Surrogate	REC	Limite	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	92	74-124	0.8197	73885	07/19/02
1,2-Dichloroethane-d4	105	75-128	0.8197	73885	07/19/02
Toluene-d8	102	80-111	0.8197	73885	07/19/02
Bromofluorobenzene	109	75-127	0.8197	73885	07/19/02

Field ID:	DP-3	Matrix:	Soil
Type:	SAMPLE	Units:	ug/Kg
Lab ID:	159778-003		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
tert-Butyl Alcohol (TBA)	830	83	0.8333	73885	07/19/02
MTBE	6,800	200	40.00	74051	07/26/02
Isopropyl Ether (DIPE)	ND	4.2	0.8333	73885	07/19/02
Ethyl tert-Butyl Ether (ETBE)	ND	4.2	0.8333	73885	07/19/02
Methyl tert-Amyl Ether (TAME)	4.8	4.2	0.8333	73885	07/19/02

Surrogate	REC	Limite	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	91	74-124	40.00	74051	07/26/02
1,2-Dichloroethane-d4	115	75-128	40.00	74051	07/26/02
Toluene-d8	102	80-111	40.00	74051	07/26/02
Bromofluorobenzene	101	75-127	40.00	74051	07/26/02

NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
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Gasoline Oxygenates by GC/MS		
Lab #: 159778	Location: Avis-Oakland	
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5030B	
Project#: 030013	Analysis: EPA 8260B	
Basis: as received	Received: 07/19/02	
Sampled: 07/19/02		

Field ID: PL-1 3.5-4.0' Matrix: Soil
 Type: SAMPLE Units: ug/Kg
 Lab ID: 159778-004

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
tert-Butyl Alcohol (TBA)	480	89	0.8929	73885	07/19/02
MTBE	1,300	130	25.00	74051	07/26/02
Isopropyl Ether (DIPE)	ND	4.5	0.8929	73885	07/19/02
Ethyl tert-Butyl Ether (ETBE)	ND	4.5	0.8929	73885	07/19/02
Methyl tert-Amyl Ether (TAME)	ND	4.5	0.8929	73885	07/19/02

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	94	74-124	0.8929	73885	07/19/02
1,2-Dichloroethane-d4	113	75-128	0.8929	73885	07/19/02
Toluene-d8	104	80-111	0.8929	73885	07/19/02
Bromofluorobenzene	112	75-127	0.8929	73885	07/19/02

Field ID: PL-2 7.5-8.0' Units: ug/Kg
 Type: SAMPLE Diln Fac: 1.064
 Lab ID: 159778-005 Batch#: 73885
 Matrix: Soil Analyzed: 07/19/02

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	110
MTBE	39	5.3
Isopropyl Ether (DIPE)	ND	5.3
Ethyl tert-Butyl Ether (ETBE)	ND	5.3
Methyl tert-Amyl Ether (TAME)	ND	5.3

Surrogate	%REC	Limits
Dibromofluoromethane	98	74-124
1,2-Dichloroethane-d4	115	75-128
Toluene-d8	105	80-111
Bromofluorobenzene	111	75-127

Type: BLANK Diln Fac: 1.000
 Lab ID: QC184626 Batch#: 73885
 Matrix: Soil Analyzed: 07/19/02
 Units: ug/Kg

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	93	74-124
1,2-Dichloroethane-d4	108	75-128
Toluene-d8	102	80-111
Bromofluorobenzene	110	75-127

NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
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Gasoline Oxygenates by GC/MS			
Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Basis:	as received	Received:	07/19/02
Sampled:	07/19/02		

Type: BLANK Diln Fac: 1.000
 Lab ID: QC184726 Batch#: 73909
 Matrix: Water Analyzed: 07/22/02
 Units: ug/L

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	NA	
MTBE	ND	5.0
Isopropyl Ether (DIPE)	NA	
Ethyl tert-Butyl Ether (ETBE)	NA	
Methyl tert-Amyl Ether (TAME)	NA	

Surrogate	%REC	Limite
Dibromofluoromethane	96	74-124
1,2-Dichloroethane-d4	114	75-128
Toluene-d8	102	80-111
Bromofluorobenzene	119	75-127

Type: BLANK Diln Fac: 1.000
 Lab ID: QC184747 Batch#: 73909
 Matrix: Water Analyzed: 07/22/02
 Units: ug/L

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	NA	
MTBE	ND	5.0
Isopropyl Ether (DIPE)	NA	
Ethyl tert-Butyl Ether (ETBE)	NA	
Methyl tert-Amyl Ether (TAME)	NA	

Surrogate	%REC	Limite
Dibromofluoromethane	91	74-124
1,2-Dichloroethane-d4	113	75-128
Toluene-d8	105	80-111
Bromofluorobenzene	121	75-127

NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
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Gasoline Oxygenates by GC/MS			
Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Basis:	as received	Received:	07/19/02
Sampled:	07/19/02		

Type: BLANK Diln Fac: 25.00
 Lab ID: QC184756 Batch#: 73909
 Matrix: Water Analyzed: 07/22/02
 Units: ug/L

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	NA	
MTBE	ND	130
Isopropyl Ether (DIPE)	NA	
Ethyl tert-Butyl Ether (ETBE)	NA	
Methyl tert-Amyl Ether (TAME)	NA	

Surrogate	%REC	Limits
Dibromofluoromethane	90	74-124
1,2-Dichloroethane-d4	114	75-128
Toluene-d8	102	80-111
Bromofluorobenzene	125	75-127

Type: BLANK Matrix: Water
 Lab ID: QC184757

Analyte	Result
tert-Butyl Alcohol (TBA)	NA
MTBE	NA
Isopropyl Ether (DIPE)	NA
Ethyl tert-Butyl Ether (ETBE)	NA
Methyl tert-Amyl Ether (TAME)	NA

Surrogate	Result
Dibromofluoromethane	NA
1,2-Dichloroethane-d4	NA
Toluene-d8	NA
Bromofluorobenzene	NA

Type: BLANK Diln Fac: 1.000
 Lab ID: QC185284 Batch#: 74051
 Matrix: Water Analyzed: 07/26/02
 Units: ug/L

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	NA	
MTBE	ND	5.0
Isopropyl Ether (DIPE)	NA	
Ethyl tert-Butyl Ether (ETBE)	NA	
Methyl tert-Amyl Ether (TAME)	NA	

Surrogate	%REC	Limits
Dibromofluoromethane	96	74-124
1,2-Dichloroethane-d4	107	75-128
Toluene-d8	96	80-111
Bromofluorobenzene	95	75-127

NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
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Gasoline Oxygenates by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC184625	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73885
Units:	ug/Kg	Analyzed:	07/19/02

Analyte	Spiked	Result	REC	Limits
MTBE	50.00	43.40	87	63-121

Surrogate	REC	Limits
Dibromofluoromethane	101	74-124
1,2-Dichloroethane-d4	114	75-128
Toluene-d8	101	80-111
Bromofluorobenzene	107	75-127

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Gasoline Oxygenates by GC/MS

Lab #:	159778	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Basis:	as received
MSS Lab ID:	159762-016	Batch#:	73885
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/19/02

Type: MS Diln Fac: 0.9804
 Lab ID: QC184639 Analyzed: 07/19/02

Analyte	MSS Result	Spiked	Result	%REC	Limits
MTBE	1,076 >LR	49.02	333.9 >LR		-1513 NM 53-131

Surrogate	%REC	Limits
Dibromofluoromethane	101	74-124
1,2-Dichloroethane-d4	114	75-128
Toluene-d8	106	80-111
Bromofluorobenzene	115	75-127

Type: MSD Diln Fac: 1.087
 Lab ID: QC184640 Analyzed: 07/20/02

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	54.35	491.7 >LR		-1075 NM 53-131	NC	30

Surrogate	%REC	Limits
Dibromofluoromethane	102	74-124
1,2-Dichloroethane-d4	112	75-128
Toluene-d8	103	80-111
Bromofluorobenzene	110	75-127

NC= Not Calculated
 NM= Not Meaningful
 >LR= Response exceeds instrument's linear range
 RPD= Relative Percent Difference
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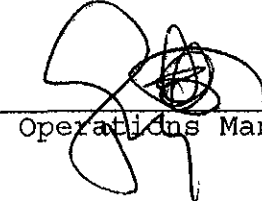
Prepared for:

McCulley, Frick & Gilman, Inc.
180 Howard
Suite 200
San Francisco, CA 94105

Date: 09-AUG-02
Lab Job Number: 159714
Project ID: 030013
Location: Avis-Oakland

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

Reviewed by: 
Project Manager

Reviewed by: 
Operations Manager

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NELAP # 01107CA

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MFG, Inc.

Laboratory Number: **159714**
Client: **MFG, Inc.**
Project Name: **Avis-Oakland**

Receipt Date: **07/17/02**

CASE NARRATIVE

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

Total Extractable Hydrocarbons: The matrix spike recovery was outside acceptance limits. The associated laboratory control sample (LCS) recovery was acceptable, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

Volatile Organic Compounds: The dibromofluoromethane surrogate recoveries for the matrix spikes were outside acceptance limits due to matrix interference.

The matrix spike duplicate recovery for trichloroethene was outside acceptance limits. The associated LCS recoveries were acceptable for all target compounds, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

Semi-Volatile Organic Compounds: No analytical problems were encountered.

PCBs: The decachlorobiphenyl surrogate recoveries for the matrix spikes were outside acceptance limits. The associated TCMX surrogate recoveries were acceptable, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

Metals: The matrix spike recoveries for nickel were not meaningful. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The matrix spike recoveries for chromium, as well as the matrix duplicate relative percent difference (RPD) for nickel, were outside acceptance limits. The associated blank spike recoveries and blank spike duplicate RPDs were acceptable for all target elements, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

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MFG, Inc.

159714

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CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 44931

Arcata Office
 1165 G Street, Suite E
 Arcata, CA 95521-5817
 Tel: (707) 826-8430
 Fax: (707) 826-8437

Boulder Office
 4900 Pearl East Circle
 Suite 300W
 Boulder, CO 80301-6118
 Tel: (303) 447-1823
 Fax: (303) 447-1836

Irvine Office
 17770 Cartwright Road
 Suite 500
 Irvine, CA 92614-5850
 Tel: (949) 253-2951
 Fax: (949) 253-2954

Osburn Office
 P.O. Box 30
 Wallace, ID
 83873-0030
 Tel: (208) 556-6811
 Fax: (208) 556-7271

San Francisco Office
 180 Howard Street, Suite 200
 San Francisco, CA 94105-1617
 Phone (415) 495-7110 - Fax (415) 495-7107

Seattle Office
 19203 36th Avenue W.
 Suite 101
 Lynnwood, WA 98036-5707
 Tel: (425) 921-4000
 Fax: (425) 921-4040

PROJECT NO: 030013 PROJECT NAME: Aris-Oakland PAGE: 1 OF: 1
 SAMPLER (Signature): [Signature] PROJECT MANAGER: Ken Johnson DATE: 7/17/02
 METHOD OF SHIPMENT: MFG Delivered CARRIER/WAYBILL NO: NA DESTINATION: Curtis & Tompkins

Field Sample Identification	SAMPLES										ANALYSIS REQUEST								
	Sample			Preservation				FILTRATION*	Containers			Constituents/Method				Handling			Remarks
	DATE	TIME	Matrix*	HCl	HNO ₃	H ₂ SO ₄	COLD		VOLUME (ml/oz)	TYPE*	NO.	TERM method	VOL 8160	S VOL 8170	PCB	Metal (UFS)	HOLD	PUSH	
WO 1 - BOTTOM	7/14/02	2:30	SO				X		5g	0	3		X					X	
WO 1 - BOTTOM	7/16/02	2:30	SO				X		6" S	SS	1	X		X	X	X		X	
WO 1 - EAST	7/14/02	3:00	SO				X		5g	0	3		X					X	
WO 1 - EAST	7/16/02	3:00	SO				X		6" S	SS	1	X		X	X	X		X	

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

TOTAL NUMBER OF CONTAINERS: 8 LABORATORY COMMENTS/CONDITION OF SAMPLES: Cooler Temp:

RELINQUISHED BY:					RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	SIGNATURE	PRINTED NAME	COMPANY
<u>[Signature]</u>	<u>Christopher Gill</u>	<u>MFG SF</u>	<u>7/17/02</u>		<u>[Signature]</u>	<u>A. Alvarez</u>	<u>C&T</u>

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LABORATORY

*KEY: Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

AUG 12 2002

Total Extractable Hydrocarbons			
Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	SHAKER TABLE
Project#:	030013	Analysis:	EPA 8015B(M)
Matrix:	Soil	Sampled:	07/16/02
Units:	mg/Kg	Received:	07/17/02
Basis:	as received	Prepared:	07/17/02
Diln Fac:	1.000	Analyzed:	07/18/02
Batch#:	73828		

Field ID: W01-BOTTOM Lab ID: 159714-001
 Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	1.2 Y	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	101	48-137

Field ID: W01-EAST Lab ID: 159714-002
 Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	27 H Y	0.99
Motor Oil C24-C36	36 L	5.0

Surrogate	%REC	Limits
Hexacosane	106	48-137

Type: BLANK Cleanup Method: EPA 3630C
 Lab ID: QC184405

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	122	48-137

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits fuel pattern which does not resemble standard

ND= Not Detected
 RL= Reporting Limit

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Chromatogram

Sample Name : 159714-001,73828

Sample #: 73828

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FileName : G:\GC13\CHB\198B038.RAW

Date : 7/19/02 09:21 AM

Method : BTEH190.MPH

Time of Injection: 7/18/02 04:58 PM

Start Time : 0.01 min

End Time : 31.91 min

Low Point : 22.58 mV

High Point : 345.17 mV

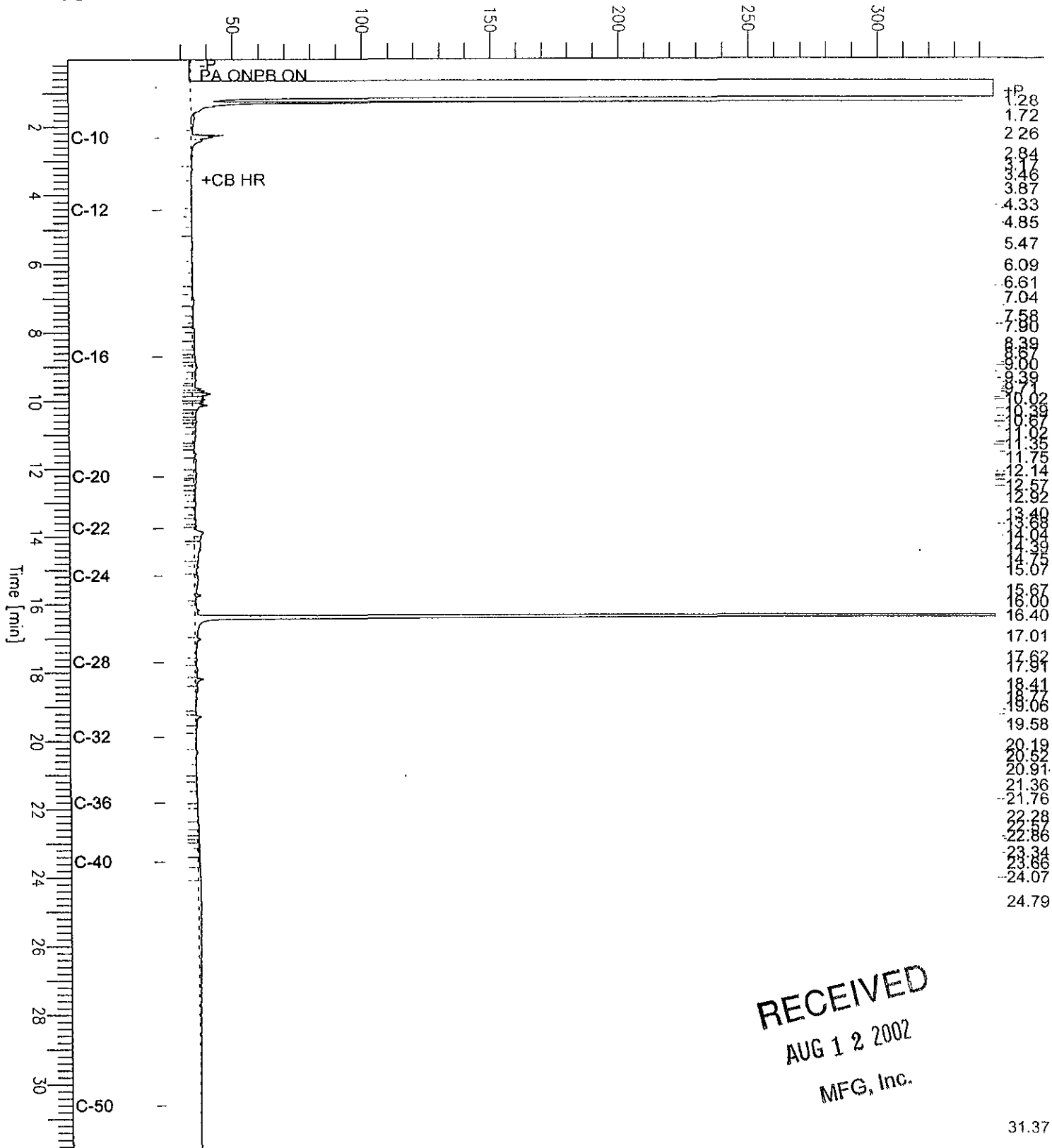
Scale Factor: 0.0

Plot Offset: 23 mV

Plot Scale: 322.6 mV

W01 - BOTTOM

Response [mV]



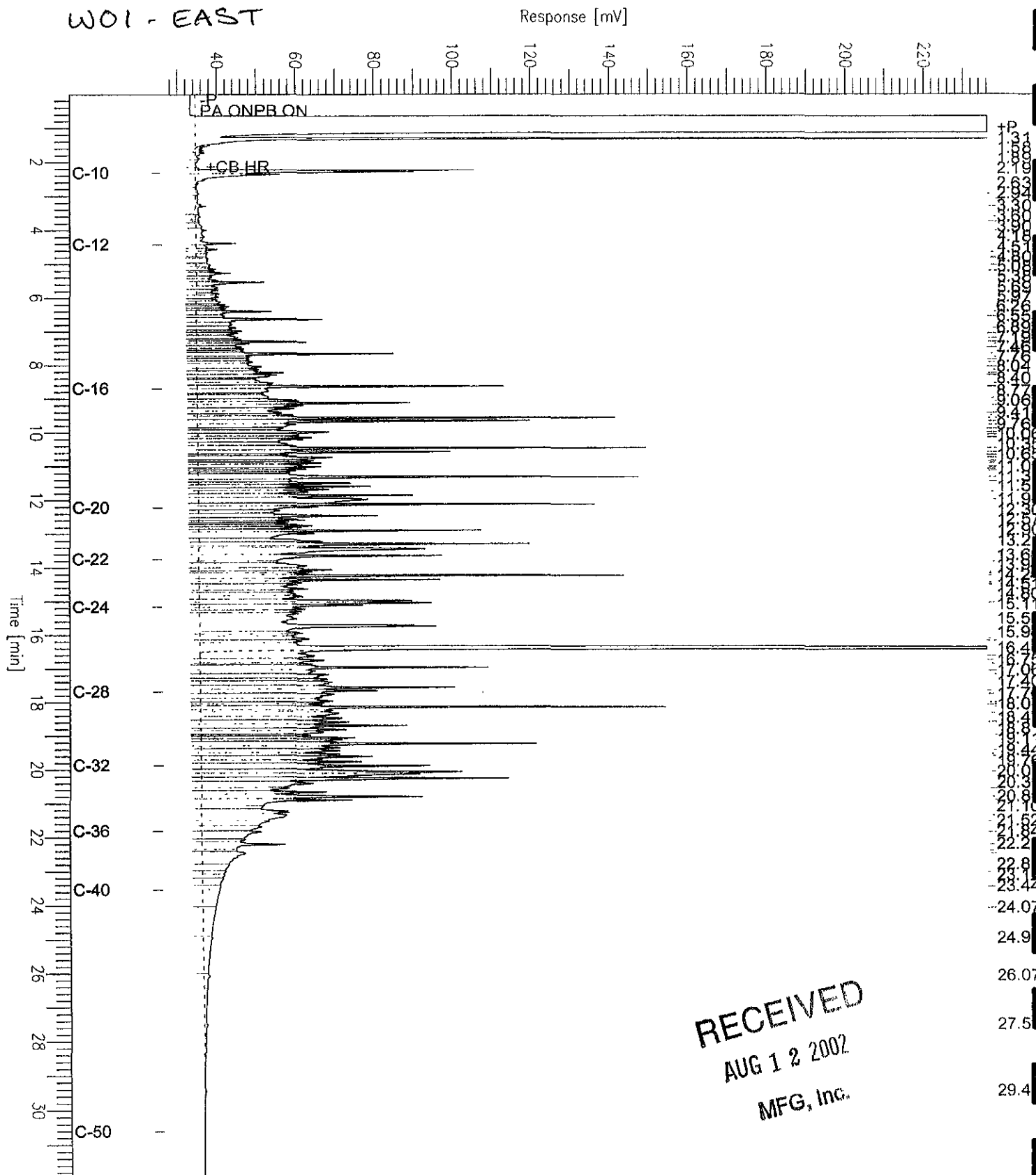
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Chromatogram

Sample Name : 159714-002,73828
FileName : G:\GC13\CHB\198B039.RAW
Method : BTEH190.MTH
Start Time : 0.01 min
Scale Factor: 0.0

Sample #: 73828
Date : 7/19/02 09:22 AM
Time of Injection: 7/18/02 05:37 PM
Low Point : 26.15 mV
High Point : 236.27 mV
Plot Scale: 210.1 mV

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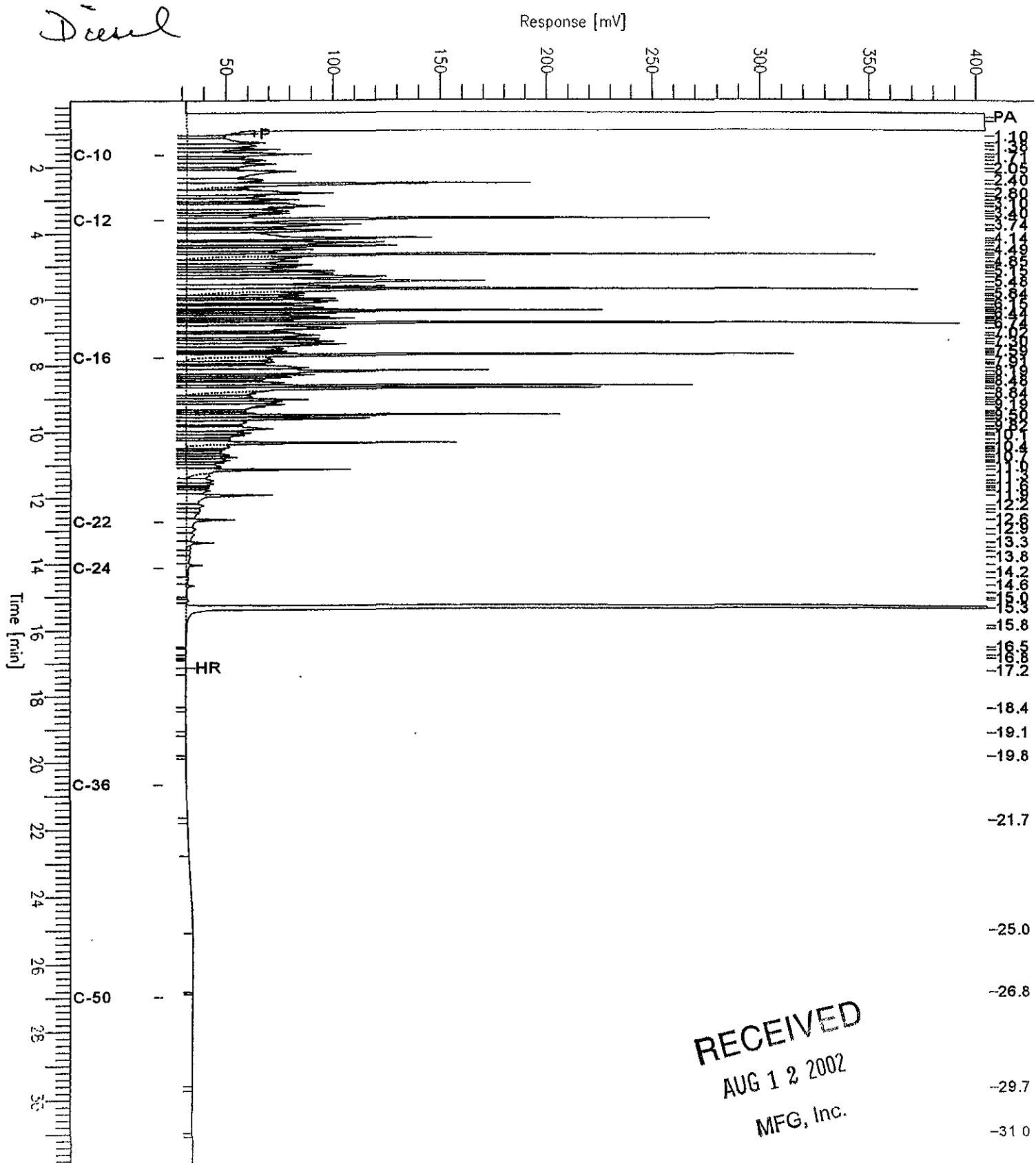
Chromatogram

Sample Name : ccv,02ws0995,dsl
FileName : G:\GC17\CHA\197A002.RAW
Method : ATEH189.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 31.91 min
Plot Offset: 21 mV

Sample #: 500mg/L
Date : 07/16/2002 10:39 AM
Time of Injection: 07/16/2002 09:21 AM
Low Point : 21.47 mV
High Point : 404.13 mV
Plot Scale: 382.7 mV

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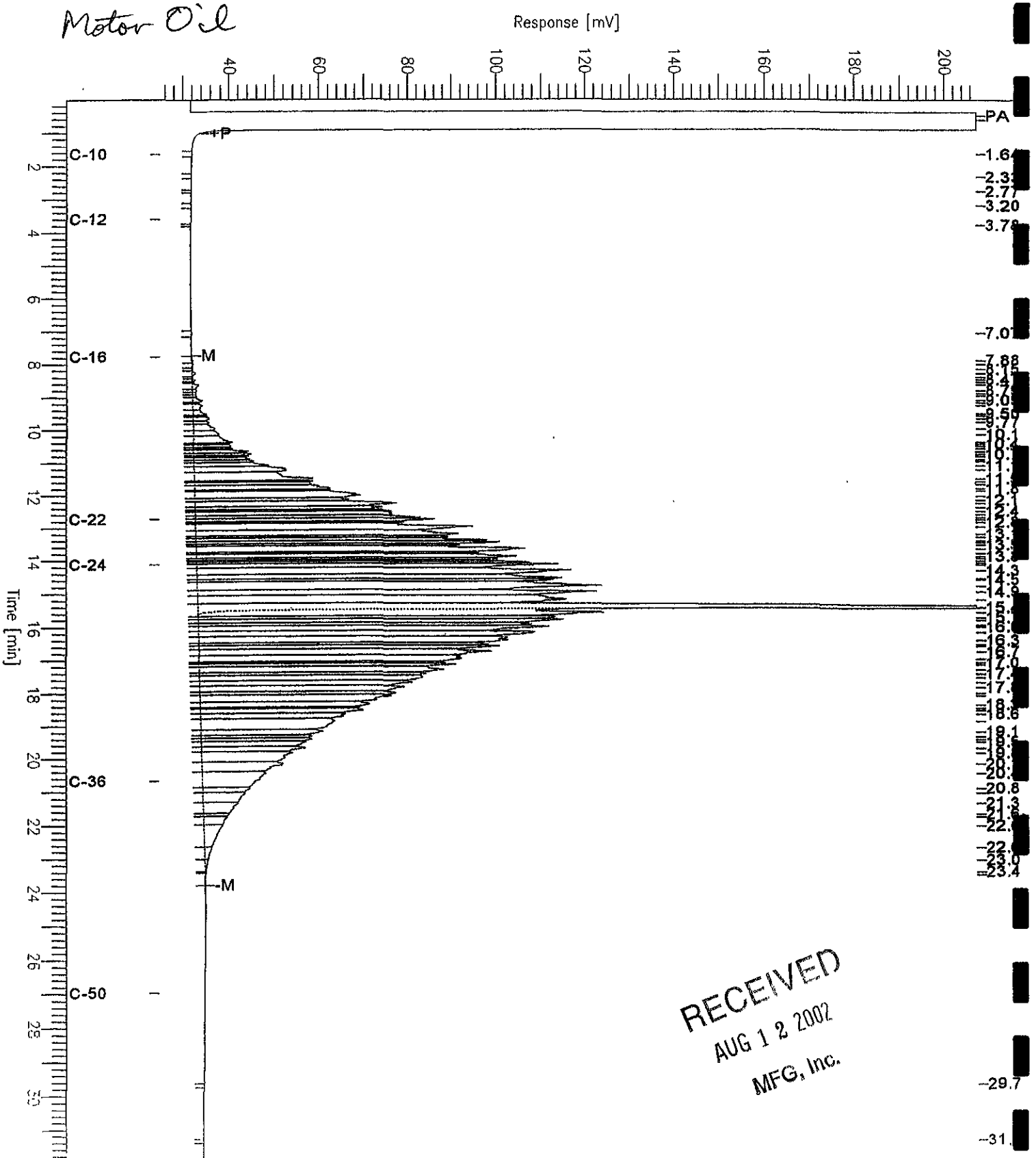


Chromatogram

Sample Name : ccv,02ws1044,mo
FileName : G:\GC17\CHA\197A003.RAW
Method : ATEH189.MTH
Start Time : 0.01 min
Scale Factor: 0.0

Sample #: 500mg/L
Date : 07/16/2002 10:40 AM
Time of Injection: 07/16/2002 10:02 AM
Low Point : 24.82 mV
Plot Scale: 182.4 mV

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Total Extractable Hydrocarbons			
Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	SHAKER TABLE
Project#:	030013	Analysis:	EPA 8015B (M)
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC184406	Batch#:	73828
Matrix:	Soil	Prepared:	07/17/02
Units:	mg/Kg	Analyzed:	07/18/02
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	REEC	Limits
Diesel C10-C24	49.50	55.73	113	67-121

Surrogate	REEC	Limits
Hexacosane	101	48-137

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Purgeable Organics by GC/MS

Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	W01-BOTTOM	Diln Fac:	100.0
Lab ID:	159714-001	Batch#:	73839
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/19/02

Analyte	Result	RL
Freon 12	ND	1,000
Chloromethane	ND	1,000
Vinyl Chloride	ND	1,000
Bromomethane	ND	1,000
Chloroethane	ND	1,000
Trichlorofluoromethane	ND	500
Acetone	ND	2,000
Freon 113	ND	500
1,1-Dichloroethene	ND	500
Methylene Chloride	ND	2,000
Carbon Disulfide	ND	500
MTBE	ND	500
trans-1,2-Dichloroethene	ND	500
Vinyl Acetate	ND	5,000
1,1-Dichloroethane	ND	500
2-Butanone	ND	1,000
cis-1,2-Dichloroethene	ND	500
2,2-Dichloropropane	ND	500
Chloroform	ND	500
Bromochloromethane	ND	500
1,1,1-Trichloroethane	ND	500
1,1-Dichloropropene	ND	500
Carbon Tetrachloride	ND	500
1,2-Dichloroethane	ND	500
Benzene	ND	500
Trichloroethene	ND	500
1,2-Dichloropropane	ND	500
Bromodichloromethane	ND	500
Dibromomethane	ND	500
4-Methyl-2-Pentanone	ND	1,000
cis-1,3-Dichloropropene	ND	500
Toluene	ND	500
trans-1,3-Dichloropropene	ND	500
1,1,2-Trichloroethane	ND	500
2-Hexanone	ND	1,000
1,3-Dichloropropane	ND	500
Tetrachloroethene	ND	500

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	W01-BOTTOM	Diln Fac:	100.0
Lab ID:	159714-001	Batch#:	73839
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/19/02

Analyte	Result	RL
Dibromochloromethane	ND	500
1,2-Dibromoethane	ND	500
Chlorobenzene	ND	500
1,1,1,2-Tetrachloroethane	ND	500
Ethylbenzene	ND	500
m,p-Xylenes	ND	500
o-Xylene	ND	500
Styrene	ND	500
Bromoform	ND	500
Isopropylbenzene	ND	500
1,1,2,2-Tetrachloroethane	ND	500
1,2,3-Trichloropropane	ND	500
Propylbenzene	ND	500
Bromobenzene	ND	500
1,3,5-Trimethylbenzene	ND	500
2-Chlorotoluene	ND	500
4-Chlorotoluene	ND	500
tert-Butylbenzene	ND	500
1,2,4-Trimethylbenzene	ND	500
sec-Butylbenzene	ND	500
para-Isopropyl Toluene	ND	500
1,3-Dichlorobenzene	ND	500
1,4-Dichlorobenzene	ND	500
n-Butylbenzene	ND	500
1,2-Dichlorobenzene	ND	500
1,2-Dibromo-3-Chloropropane	ND	500
1,2,4-Trichlorobenzene	ND	500
Hexachlorobutadiene	ND	500
Naphthalene	ND	500
1,2,3-Trichlorobenzene	ND	500

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

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 159714	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5035
Project#: 030013	Analysis: EPA 8260B
Field ID: W01-EAST	Diln Fac: 0.9259
Lab ID: 159714-002	Batch#: 73807
Matrix: Soil	Sampled: 07/16/02
Units: ug/Kg	Received: 07/17/02
Basis: as received	Analyzed: 07/17/02

Analyte	Result	RL
Freon 12	ND	9.3
Chloromethane	ND	9.3
Vinyl Chloride	ND	9.3
Bromomethane	ND	9.3
Chloroethane	ND	9.3
Trichlorofluoromethane	ND	4.6
Acetone	ND	19
Freon 113	ND	4.6
1,1-Dichloroethene	ND	4.6
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.6
MTBE	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
Vinyl Acetate	ND	46
1,1-Dichloroethane	ND	4.6
2-Butanone	ND	9.3
cis-1,2-Dichloroethene	ND	4.6
2,2-Dichloropropane	ND	4.6
Chloroform	ND	4.6
Bromochloromethane	ND	4.6
1,1,1-Trichloroethane	ND	4.6
1,1-Dichloropropene	ND	4.6
Carbon Tetrachloride	ND	4.6
1,2-Dichloroethane	ND	4.6
Benzene	ND	4.6
Trichloroethene	ND	4.6
1,2-Dichloropropane	ND	4.6
Bromodichloromethane	ND	4.6
Dibromomethane	ND	4.6
4-Methyl-2-Pentanone	ND	9.3
cis-1,3-Dichloropropene	ND	4.6
Toluene	ND	4.6
trans-1,3-Dichloropropene	ND	4.6
1,1,2-Trichloroethane	ND	4.6
2-Hexanone	ND	9.3
1,3-Dichloropropane	ND	4.6
Tetrachloroethene	ND	4.6

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	W01-EAST	Diin Fac:	0.9259
Lab ID:	159714-002	Batch#:	73807
Matrix:	Soil	Sampled:	07/16/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/17/02

Analyte	Result	RL
Dibromochloromethane	ND	4.6
1,2-Dibromoethane	ND	4.6
Chlorobenzene	ND	4.6
1,1,1,2-Tetrachloroethane	ND	4.6
Ethylbenzene	ND	4.6
m,p-Xylenes	ND	4.6
o-Xylene	ND	4.6
Styrene	ND	4.6
Bromoform	ND	4.6
Isopropylbenzene	ND	4.6
1,1,2,2-Tetrachloroethane	ND	4.6
1,2,3-Trichloropropane	ND	4.6
Propylbenzene	ND	4.6
Bromobenzene	ND	4.6
1,3,5-Trimethylbenzene	ND	4.6
2-Chlorotoluene	ND	4.6
4-Chlorotoluene	ND	4.6
tert-Butylbenzene	ND	4.6
1,2,4-Trimethylbenzene	ND	4.6
sec-Butylbenzene	ND	4.6
para-Isopropyl Toluene	ND	4.6
1,3-Dichlorobenzene	ND	4.6
1,4-Dichlorobenzene	ND	4.6
n-Butylbenzene	ND	4.6
1,2-Dichlorobenzene	ND	4.6
1,2-Dibromo-3-Chloropropane	ND	4.6
1,2,4-Trichlorobenzene	ND	4.6
Hexachlorobutadiene	ND	4.6
Naphthalene	ND	4.6
1,2,3-Trichlorobenzene	ND	4.6

Surrogate	%REC	Limits
Dibromofluoromethane	104	74-124
1,2-Dichloroethane-d4	102	75-128
Toluene-d8	103	80-111
Bromofluorobenzene	100	75-127

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC184319	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73807
Units:	ug/Kg	Analyzed:	07/17/02

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

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC184319	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73807
Units:	ug/Kg	Analyzed:	07/17/02

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

Surrogate	REC	Limit
Dibromofluoromethane	93	74-124
1,2-Dichloroethane-d4	94	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	98	75-127

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 159714	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5035
Project#: 030013	Analysis: EPA 8260B
Type: BLANK	Diln Fac: 1.000
Lab ID: QC184457	Batch#: 73839
Matrix: Water	Analyzed: 07/18/02
Units: ug/L	

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

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184457	Batch#:	73839
Matrix:	Water	Analyzed:	07/18/02
Units:	ug/L		

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

Surrogate	#REC	Limite
Dibromofluoromethane	90	74-124
1,2-Dichloroethane-d4	87	75-128
Toluene-d8	96	80-111
Bromofluorobenzene	93	75-127

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #: 159714	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5035
Project#: 030013	Analysis: EPA 8260B
Type: BLANK	Diln Fac: 1.000
Lab ID: QC184458	Batch#: 73839
Matrix: Water	Analyzed: 07/18/02
Units: ug/L	

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

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184458	Batch#:	73839
Matrix:	Water	Analyzed:	07/18/02
Units:	ug/L		

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

Surrogate	REC	Limits
Dibromofluoromethane	88	74-124
1,2-Dichloroethane-d4	83	75-128
Toluene-d8	95	80-111
Bromofluorobenzene	92	75-127

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ND= Not Detected
RL= Reporting Limit
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Surgeable Organics by GC/MS

Lab #: 159714	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5035
Project#: 030013	Analysis: EPA 8260B
Type: LCS	Basis: as received
Lab ID: QC184318	Diln Fac: 1.000
Matrix: Soil	Batch#: 73807
Units: ug/Kg	Analyzed: 07/17/02

Analyte	Spiked	Result	*REC	Limits
1,1-Dichloroethene	50.00	49.72	99	70-131
Benzene	50.00	48.94	98	77-120
Trichloroethene	50.00	55.14	110	79-120
Toluene	50.00	48.84	98	80-120
Chlorobenzene	50.00	47.63	95	80-120

Surrogate	*REC	Limits
Dibromofluoromethane	95	74-124
1,2-Dichloroethane-d4	96	75-128
Toluene-d8	98	80-111
Bromofluorobenzene	97	75-127

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Purgeable Organics by GC/MS			
Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC184456	Batch#:	73839
Matrix:	Water	Analyzed:	07/18/02
Units:	ug/L		

Analyte	Spiked	Result	*REC	Limits
1,1-Dichloroethene	50.00	54.40	109	70-131
Benzene	50.00	50.32	101	77-120
Trichloroethene	50.00	57.79	116	79-120
Toluene	50.00	50.72	101	80-120
Chlorobenzene	50.00	49.23	98	80-120

Surrogate	*REC	Limits
Dibromofluoromethane	92	74-124
1,2-Dichloroethane-d4	87	75-128
Toluene-d8	98	80-111
Bromofluorobenzene	93	75-127

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Purgeable Organics by GC/MS			
Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.020
MSS Lab ID:	159725-005	Batch#:	73807
Matrix:	Soil	Sampled:	07/17/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/19/02

Type: MS Lab ID: QC184340

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.6700	51.02	64.04	126	57-134
Benzene	1.268	51.02	41.09	78	55-125
Trichloroethene	0.4586	51.02	68.18	133	37-133
Toluene	0.8651	51.02	35.69	68	48-131
Chlorobenzene	<0.1500	51.02	24.65	48	42-128

Surrogate	%REC	Limits
Dibromofluoromethane	46 *	74-124
1,2-Dichloroethane-d4	86	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	93	75-127

Type: MSD Lab ID: QC184341

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	51.02	62.42	122	57-134	3	20
Benzene	51.02	40.80	77	55-125	1	20
Trichloroethene	51.02	74.24	145 *	37-133	9	21
Toluene	51.02	35.31	68	48-131	1	20
Chlorobenzene	51.02	24.25	48	42-128	2	23

Surrogate	%REC	Limits
Dibromofluoromethane	49 *	74-124
1,2-Dichloroethane-d4	86	75-128
Toluene-d8	96	80-111
Bromofluorobenzene	94	75-127

*= Value outside of QC limits; see narrative
 RPD= Relative Percent Difference
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Purgeable Organics by GC/MS			
Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	25.00
MSS Lab ID:	159677-006	Batch#:	73839
Matrix:	Soil	Sampled:	07/09/02
Units:	ug/Kg	Received:	07/12/02
Basis:	as received	Analyzed:	07/18/02

Type: MS Lab ID: QC184502

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<17.00	1,250	1,149	92	57-134
Benzene	291.1	1,250	1,375	87	55-125
Trichloroethene	<5.500	1,250	1,271	102	37-133
Toluene	236.8	1,250	1,362	90	48-131
Chlorobenzene	<3.800	1,250	1,171	94	42-128

Surrogate	%REC	Limits
Dibromofluoromethane	89	74-124
1,2-Dichloroethane-d4	83	75-128
Toluene-d8	95	80-111
Bromofluorobenzene	89	75-127

Type: MSD Lab ID: QC184503

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	1,250	1,140	91	57-134	1	20
Benzene	1,250	1,402	89	55-125	2	20
Trichloroethene	1,250	1,276	102	37-133	0	21
Toluene	1,250	1,361	90	48-131	0	20
Chlorobenzene	1,250	1,166	93	42-128	1	23

Surrogate	%REC	Limits
Dibromofluoromethane	89	74-124
1,2-Dichloroethane-d4	82	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	90	75-127

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Semivolatile Organics by GC/MS

Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8270C
Field ID:	W01-BOTTOM	Batch#:	73972
Lab ID:	159714-001	Sampled:	07/16/02
Matrix:	Soil	Received:	07/17/02
Units:	ug/Kg	Prepared:	07/24/02
Basis:	as received	Analyzed:	08/01/02
Diln Fac:	1.000		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl) ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	670
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy) methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	1,700
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	670
Acenaphthene	ND	330
2,4-Dinitrophenol	ND	1,700
4-Nitrophenol	ND	670
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	330
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	670
4,6-Dinitro-2-methylphenol	ND	1,700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	670
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330

ND= Not Detected
 RL= Reporting Limit
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Semivolatile Organics by GC/MS

Lab #: 159714	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 3520C
Project#: 030013	Analysis: EPA 8270C
Field ID: W01-BOTTOM	Batch#: 73972
Lab ID: 159714-001	Sampled: 07/16/02
Matrix: Soil	Received: 07/17/02
Units: ug/Kg	Prepared: 07/24/02
Basis: as received	Analyzed: 08/01/02
Diln Fac: 1.000	

Analyte	Result	RL
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo (a) anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo (b) fluoranthene	ND	330
Benzo (k) fluoranthene	ND	330
Benzo (a) pyrene	ND	330
Indeno (1,2,3-cd) pyrene	ND	330
Dibenz (a,h) anthracene	ND	330
Benzo (g,h,i) perylene	ND	330

Surrogate	REC	Limit
2-Fluorophenol	66	34-120
Phenol-d5	60	37-120
2,4,6-Tribromophenol	57	24-120
Nitrobenzene-d5	61	35-120
2-Fluorobiphenyl	66	38-121
Terphenyl-d14	57	32-127

ND= Not Detected
 RL= Reporting Limit
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Semivolatile Organics by GC/MS			
Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8270C
Field ID:	W01-EAST	Batch#:	73972
Lab ID:	159714-002	Sampled:	07/16/02
Matrix:	Soil	Received:	07/17/02
Units:	ug/Kg	Prepared:	07/24/02
Basis:	as received	Analyzed:	08/01/02
Diln Fac:	1.000		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	340
Phenol	ND	340
bis(2-Chloroethyl) ether	ND	340
2-Chlorophenol	ND	340
1,3-Dichlorobenzene	ND	340
1,4-Dichlorobenzene	ND	340
Benzyl alcohol	ND	340
1,2-Dichlorobenzene	ND	340
2-Methylphenol	ND	340
bis(2-Chloroisopropyl) ether	ND	340
4-Methylphenol	ND	340
N-Nitroso-di-n-propylamine	ND	340
Hexachloroethane	ND	340
Nitrobenzene	ND	340
Isophorone	ND	340
2-Nitrophenol	ND	670
2,4-Dimethylphenol	ND	340
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	340
2,4-Dichlorophenol	ND	340
1,2,4-Trichlorobenzene	ND	340
Naphthalene	ND	340
4-Chloroaniline	ND	340
Hexachlorobutadiene	ND	340
4-Chloro-3-methylphenol	ND	340
2-Methylnaphthalene	ND	340
Hexachlorocyclopentadiene	ND	1,700
2,4,6-Trichlorophenol	ND	340
2,4,5-Trichlorophenol	ND	340
2-Chloronaphthalene	ND	340
2-Nitroaniline	ND	670
Dimethylphthalate	ND	340
Acenaphthylene	ND	340
2,6-Dinitrotoluene	ND	340
3-Nitroaniline	ND	670
Acenaphthene	ND	340
2,4-Dinitrophenol	ND	1,700
4-Nitrophenol	ND	670
Dibenzofuran	ND	340
2,4-Dinitrotoluene	ND	340
Diethylphthalate	ND	340
Fluorene	ND	340
4-Chlorophenyl-phenylether	ND	340
4-Nitroaniline	ND	670
4,6-Dinitro-2-methylphenol	ND	1,700
N-Nitrosodiphenylamine	ND	340
Azobenzene	ND	340
4-Bromophenyl-phenylether	ND	340
Hexachlorobenzene	ND	340
Pentachlorophenol	ND	670
Phenanthrene	ND	340
Anthracene	ND	340
Di-n-butylphthalate	ND	340
Fluoranthene	ND	340

ND= Not Detected
 RL= Reporting Limit
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Semivolatile Organics by GC/MS

Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8270C
Field ID:	W01-EAST	Batch#:	73972
Lab ID:	159714-002	Sampled:	07/16/02
Matrix:	Soil	Received:	07/17/02
Units:	ug/Kg	Prepared:	07/24/02
Basis:	as received	Analyzed:	08/01/02
Diln Fac:	1.000		

Analyte	Result	RL
Pyrene	ND	340
Butylbenzylphthalate	ND	340
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	340
Chrysene	ND	340
bis(2-Ethylhexyl)phthalate	ND	340
Di-n-octylphthalate	ND	340
Benzo(b)fluoranthene	ND	340
Benzo(k)fluoranthene	ND	340
Benzo(a)pyrene	ND	340
Indeno(1,2,3-cd)pyrene	ND	340
Dibenz(a,h)anthracene	ND	340
Benzo(a,h,i)perylene	ND	340

Surrogate	REC	Limit
2-Fluorophenol	62	34-120
Phenol-d5	57	37-120
2,4,6-Tribromophenol	58	24-120
Nitrobenzene-d5	62	35-120
2-Fluorobiphenyl	66	38-121
Terphenyl-d14	59	32-127

ND= Not Detected
 RL= Reporting Limit
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Semi-volatile Organics by GC/MS		
Lab #: 159714	Location:	Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#: 030013	Analysis:	EPA 8270C
Type: BLANK	Diln Fac:	1.000
Lab ID: QC184963	Batch#:	73972
Matrix: Soil	Prepared:	07/24/02
Units: ug/Kg	Analyzed:	08/01/02
Basis: as received		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl) ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	670
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	1,700
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	670
Acenaphthene	ND	330
2,4-Dinitrophenol	ND	1,700
4-Nitrophenol	ND	670
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	330
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	670
4,6-Dinitro-2-methylphenol	ND	1,700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	670
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330

ND= Not Detected
 RL= Reporting Limit
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Semi-volatile Organics by GC/MS

Lab #: 159714	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 3520C
Project#: 030013	Analysis: EPA 8270C
Type: BLANK	Diln Fac: 1.000
Lab ID: QC184963	Batch#: 73972
Matrix: Soil	Prepared: 07/24/02
Units: ug/Kg	Analyzed: 08/01/02
Basis: as received	

Analyte	Result	RL
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo (a) anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo (b) fluoranthene	ND	330
Benzo (k) fluoranthene	ND	330
Benzo (a) pyrene	ND	330
Indeno (1,2,3-cd) pyrene	ND	330
Dibenz (a,h) anthracene	ND	330
Benzo (g,h,i) perylene	ND	330

Surrogate	% REC	Limit
2-Fluorophenol	66	34-120
Phenol-d5	61	37-120
2,4,6-Tribromophenol	64	24-120
Nitrobenzene-d5	63	35-120
2-Fluorobiphenyl	71	38-121
Terphenyl-d14	65	32-127

ND= Not Detected
 RL= Reporting Limit
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Semivolatile Organics by GC/MS

Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC184964	Batch#:	73972
Matrix:	Soil	Prepared:	07/24/02
Units:	ug/Kg	Analyzed:	08/01/02
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Phenol	3,365	2,087	62	35-120
2-Chlorophenol	3,365	2,182	65	35-120
1,4-Dichlorobenzene	1,682	1,038	62	34-120
N-Nitroso-di-n-propylamine	1,682	899.4	53	27-120
1,2,4-Trichlorobenzene	1,682	1,057	63	34-122
4-Chloro-3-methylphenol	3,365	2,407	72	38-120
Acenaphthene	1,682	907.9	54	40-120
4-Nitrophenol	3,365	1,700	51	24-120
2,4-Dinitrotoluene	1,682	903.9	54	36-120
Pentachlorophenol	3,365	2,073	62	24-120
Pyrene	1,682	950.7	57	34-120

Surrogate	%REC	Limits
2-Fluorophenol	66	34-120
Phenol-d5	65	37-120
2,4,6-Tribromophenol	62	24-120
Nitrobenzene-d5	66	35-120
2-Fluorobiphenyl	66	38-121
Terphenyl-d14	63	32-127

Semi-volatile Organics by GC/MS			
Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8270C
Field ID:	ZZZZZZZZZZ	Batch#:	73972
MSS Lab ID:	159770-002	Sampled:	07/18/02
Matrix:	Soil	Received:	07/18/02
Units:	ug/Kg	Prepared:	07/24/02
Basis:	as received	Analyzed:	07/30/02
Diln Fac:	1.000		

Type: MS Lab ID: QC184965

Analyte	MSS Result	Spiked	Result	REC	Limit
Phenol	<46.00	3,321	1,790	54	37-120
2-Chlorophenol	<41.00	3,321	2,002	60	40-120
1,4-Dichlorobenzene	<26.00	1,661	904.7	54	35-120
N-Nitroso-di-n-propylamine	<30.00	1,661	883.7	53	31-120
1,2,4-Trichlorobenzene	<34.00	1,661	922.3	56	36-125
4-Chloro-3-methylphenol	<52.00	3,321	2,031	61	41-120
Acenaphthene	<26.00	1,661	824.9	50	42-120
4-Nitrophenol	<23.00	3,321	1,983	60	20-120
2,4-Dinitrotoluene	<27.00	1,661	921.7	56	38-120
Pentachlorophenol	<36.00	3,321	1,924	58	17-120
Pyrene	<42.00	1,661	896.0	54	22-140

Surrogate	REC	Limit
2-Fluorophenol	61	34-120
Phenol-d5	60	37-120
2,4,6-Tribromophenol	61	24-120
Nitrobenzene-d5	65	35-120
2-Fluorobiphenyl	67	38-121
Terphenyl-d14	63	32-127

Type: MSD Lab ID: QC184966

Analyte	Spiked	Result	REC	Limit	RPD	Lim
Phenol	3,323	1,773	53	37-120	1	24
2-Chlorophenol	3,323	1,867	56	40-120	7	25
1,4-Dichlorobenzene	1,662	847.7	51	35-120	7	41
N-Nitroso-di-n-propylamine	1,662	780.7	47	31-120	12	26
1,2,4-Trichlorobenzene	1,662	826.9	50	36-125	11	26
4-Chloro-3-methylphenol	3,323	1,913	58	41-120	6	24
Acenaphthene	1,662	806.4	49	42-120	2	32
4-Nitrophenol	3,323	1,836	55	20-120	8	31
2,4-Dinitrotoluene	1,662	845.9	51	38-120	9	28
Pentachlorophenol	3,323	1,743	52	17-120	10	47
Pyrene	1,662	876.9	53	22-140	2	34

Surrogate	REC	Limit
2-Fluorophenol	58	34-120
Phenol-d5	57	37-120
2,4,6-Tribromophenol	56	24-120
Nitrobenzene-d5	60	35-120
2-Fluorobiphenyl	65	38-121
Terphenyl-d14	58	32-127

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Polychlorinated Biphenyls (PCBs)			
Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3550
Project#:	030013	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	73913
Units:	ug/Kg	Sampled:	07/16/02
Basis:	as received	Received:	07/17/02
Diln Fac:	1.000	Prepared:	07/22/02

Field ID: W01-BOTTOM Analyzed: 07/30/02
 Type: SAMPLE Cleanup Method: EPA 3665A
 Lab ID: 159714-001

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	91	55-150
Decachlorobiphenyl	95	37-150

Field ID: W01-EAST Analyzed: 07/29/02
 Type: SAMPLE Cleanup Method: EPA 3665A
 Lab ID: 159714-002

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	67	55-150
Decachlorobiphenyl	73	37-150

Type: BLANK Analyzed: 07/22/02
 Lab ID: QC184738 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	78	55-150
Decachlorobiphenyl	91	37-150

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

REC
 AUG 12 2002
 MFG, Inc.

Polychlorinated Biphenyls (PCBs)

Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3550
Project#:	030013	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC184739	Batch#:	73913
Matrix:	Soil	Prepared:	07/22/02
Units:	ug/Kg	Analyzed:	07/22/02
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	UREC	Limits
Aroclor-1254	168.6	164.8	98	58-124

Surrogate	UREC	Limits
TCMX	86	55-150
Decachlorobiphenyl	84	37-150

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Polychlorinated Biphenyls (PCBs)			
Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3550
Project#:	030013	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	73913
MSS Lab ID:	159732-014	Sampled:	07/17/02
Matrix:	Soil	Received:	07/17/02
Units:	ug/Kg	Prepared:	07/22/02
Basis:	as received	Analyzed:	07/24/02
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A
 Lab ID: QC184740

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1254	15.96	165.4	122.1	64	26-133

Surrogate	%REC	Limits
TCMX	76	55-150
Decachlorobiphenyl	31 *	37-150

Type: MSD Cleanup Method: EPA 3665A
 Lab ID: QC184741

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1254	166.7	132.8	70	26-133	8	40

Surrogate	%REC	Limits
TCMX	76	55-150
Decachlorobiphenyl	33 *	37-150

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California LUFT Metals

Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3050
Project#:	030013	Analysis:	EPA 6010B
Matrix:	Soil	Sampled:	07/16/02
Units:	mg/Kg	Received:	07/17/02
Basis:	as received	Prepared:	07/23/02
Diln Fac:	1.000	Analyzed:	07/25/02
Batch#:	73950		

Field ID: W01-BOTTOM Lab ID: 159714-001
 Type: SAMPLE

Analyte	Result	RL
Cadmium	0.25	0.25
Chromium	14	0.50
Lead	0.79	0.15
Nickel	15	1.0
Zinc	8.7	1.0

Field ID: W01-EAST Lab ID: 159714-002
 Type: SAMPLE

Analyte	Result	RL
Cadmium	1.2	0.23
Chromium	25	0.46
Lead	4.9	0.14
Nickel	40	0.91
Zinc	37	0.91

Type: BLANK Lab ID: QC184876

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.50
Lead	ND	0.15
Nickel	ND	1.0
Zinc	ND	1.0

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California LUFT Metals			
Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3050
Project#:	030013	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	73950
Units:	mg/Kg	Prepared:	07/23/02
Basis:	as received	Analyzed:	07/25/02
Diln Fac:	1.000		

Type: BS Lab ID: QC184877

Analyte	Spiked	Result	%REC	Limit
Cadmium	10.00	8.650	87	69-120
Chromium	100.0	90.50	91	72-120
Lead	100.0	86.50	87	70-120
Nickel	25.00	22.25	89	72-120
Zinc	25.00	20.95	84	65-120

Type: BSD Lab ID: QC184878

Analyte	Spiked	Result	%REC	Limit	RPD	Lim
Cadmium	10.00	8.650	87	69-120	0	20
Chromium	100.0	90.50	91	72-120	0	20
Lead	100.0	87.00	87	70-120	1	20
Nickel	25.00	22.35	89	72-120	0	20
Zinc	25.00	20.95	84	65-120	0	20

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California LUFT Metals			
Lab #:	159714	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3050
Project#:	030013	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	73950
MSS Lab ID:	159770-002	Sampled:	07/18/02
Matrix:	Soil	Received:	07/18/02
Units:	mg/Kg	Prepared:	07/23/02
Basis:	as received	Analyzed:	07/25/02
Diln Fac:	1.000		

Type: MS Lab ID: QC184879

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	1.108	8.511	7.362	73	43-120
Chromium	112.1	85.11	190.2	92	62-145
Lead	6.009	85.11	65.53	70	46-128
Nickel	148.4	21.28	200.0	242 NM	62-141
Zinc	41.66	21.28	50.21	40 *	55-150

Type: MSD Lab ID: QC184880

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	8.130	7.480	78	43-120	6	26
Chromium	81.30	140.7	35 *	62-145	28	33
Lead	81.30	67.48	76	46-128	7	39
Nickel	20.33	130.1	-90 NM	62-141	42 *	37
Zinc	20.33	62.60	103	55-150	23	38

*= Value outside of QC limits; see narrative
 NM= Not Meaningful
 RPD= Relative Percent Difference
 Page 1 of 1

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ANALYTICAL REPORT


Prepared for:

McCulley, Frick & Gilman, Inc.
180 Howard
Suite 200
San Francisco, CA 94105

Date: 07-AUG-02
Lab Job Number: 159785
Project ID: 030013
Location: Avis-Oakland

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

Reviewed by: 
Project Manager

Reviewed by: 
Operations Manager

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Total Extractable Hydrocarbons			
Lab #:	159785	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	SHAKER TABLE
Project#:	030013	Analysis:	EPA 8015B (M)
Field ID:	HL-1	Sampled:	07/19/02
Matrix:	Soil	Received:	07/19/02
Units:	mg/Kg	Prepared:	07/22/02
Basis:	as received	Analyzed:	07/24/02
Batch#:	73930		

Type: SAMPLE Diln Fac: 5.000
 Lab ID: 159785-001

Analyte	Result	RL
Diesel C10-C24	2,500 H Y	5.0
Hydraulic Fluid, C12-50	3,600	25

Surrogate	SRRC	Limits
Hexacosane	76	48-137

Type: BLANK Diln Fac: 1.000
 Lab ID: QC184804

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Hydraulic Fluid, C12-50	ND	5.0

Surrogate	SRRC	Limits
Hexacosane	104	48-137

H= Heavier hydrocarbons contributed to the quantitation
 Y= Sample exhibits fuel pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

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Chromatogram

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Sample Name : 159785-001,73930
FileName : G:\GC15\CHB\204B023.RAW
Method : BTEH205.MTH
Start Time : 0.00 min
Scale Factor: 0.0

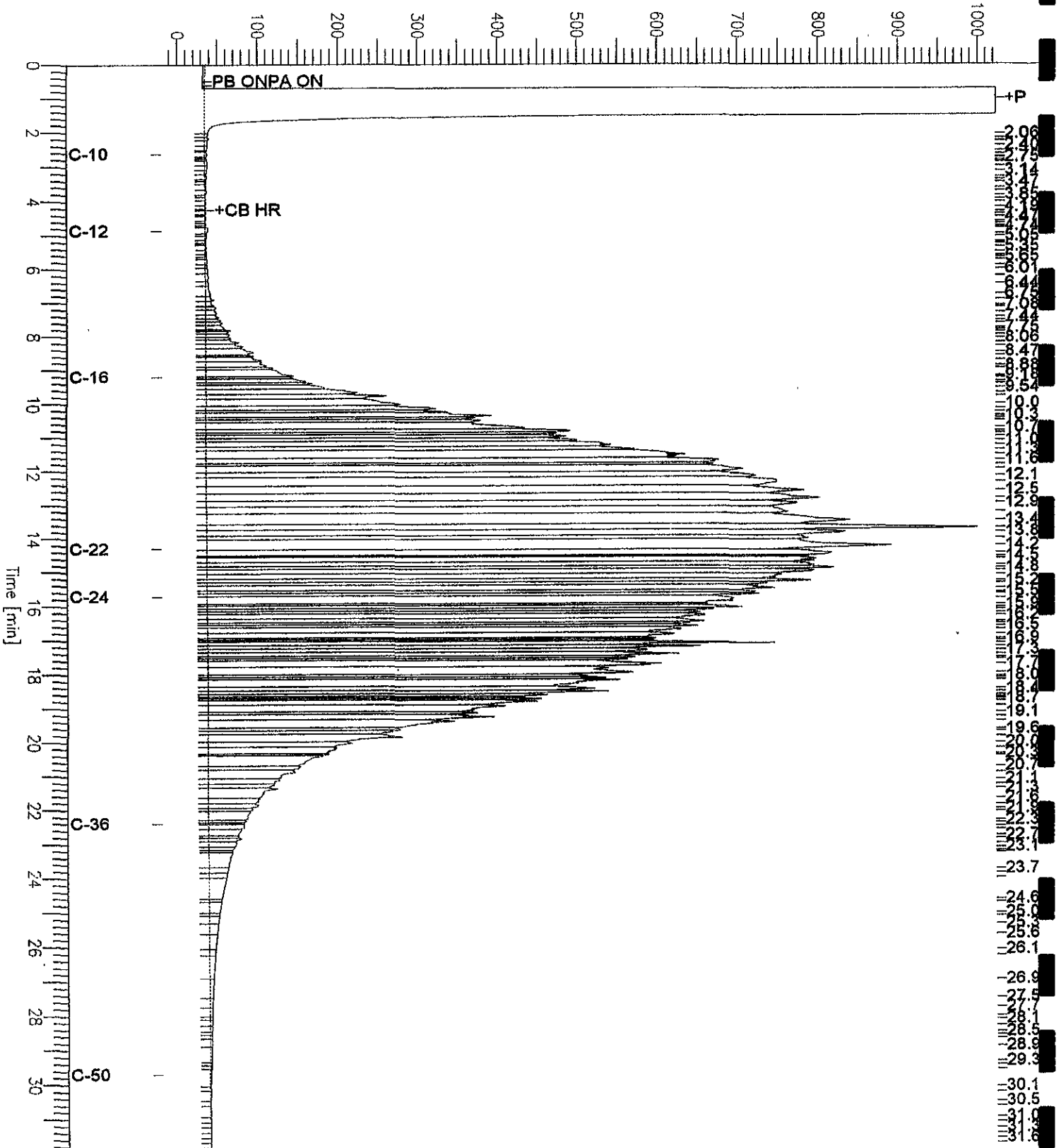
End Time : 31.90 min
Plot Offset: -19 mV

Sample #: 73930
Date : 07/24/2002 11:52 AM
Time of Injection: 07/24/2002 01:27 AM
Low Point : -19.25 mV
Plot Scale: 1043.3 mV
High Point : 1024.00 mV

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HL-1

Response [mV]



Chromatogram

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Sample Name : ccv_02ws0995.dsl
FileName : G:\GC15\CHB\204B002.RAW
Method : BTEH196.MTH
Start Time : 0.01 min
Scale Factor: 0.0

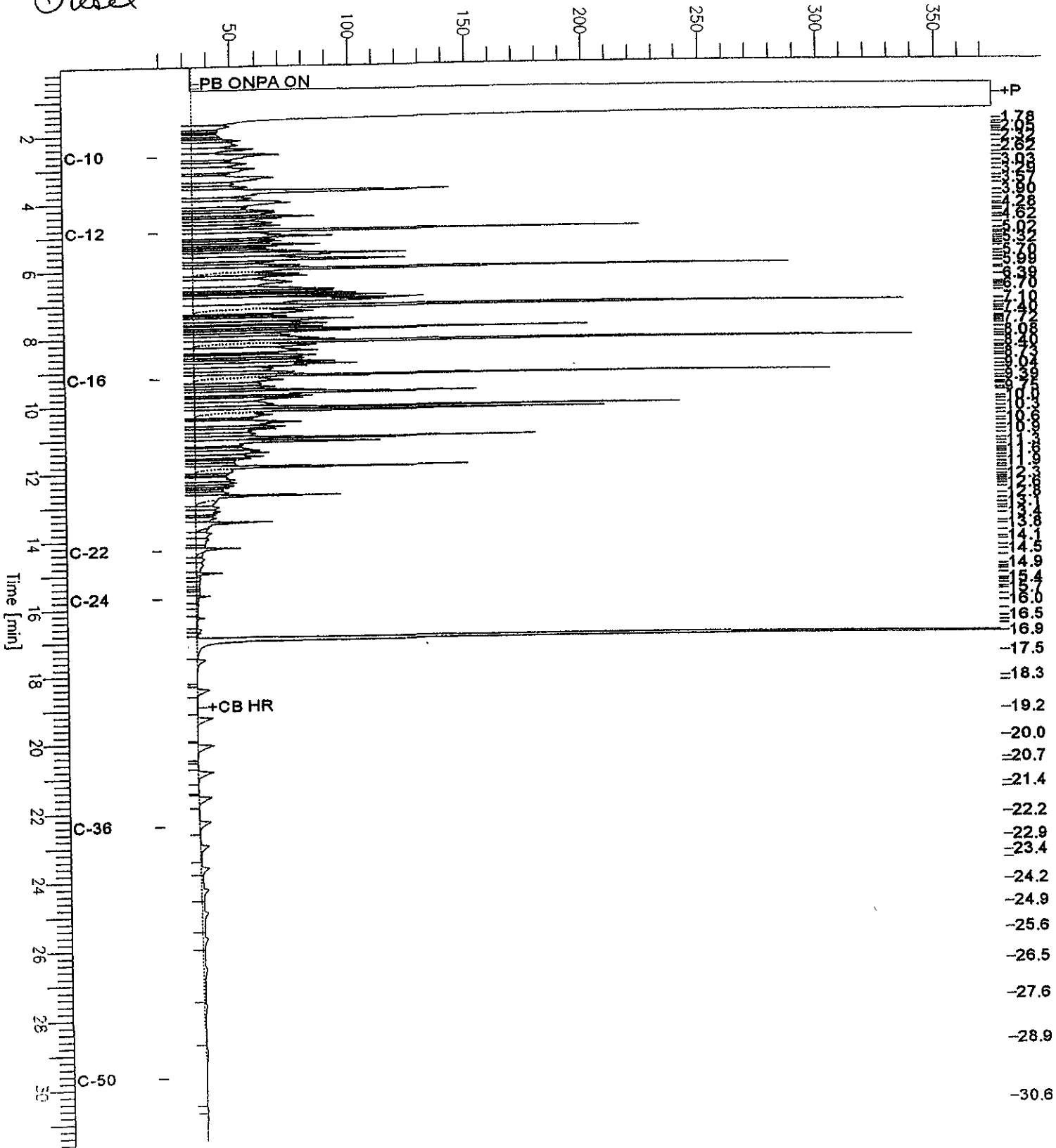
End Time : 31.91 min
Plot Offset: 19 mV

Sample #: 500mg/L
Date : 07/23/2002 11:02 AM
Time of Injection: 07/23/2002 09:51 AM
Low Point : 19.33 mV
Plot Scale: 355.2 mV

Page 1 of 1 MFG, Inc.

Diesel

Response [mV]



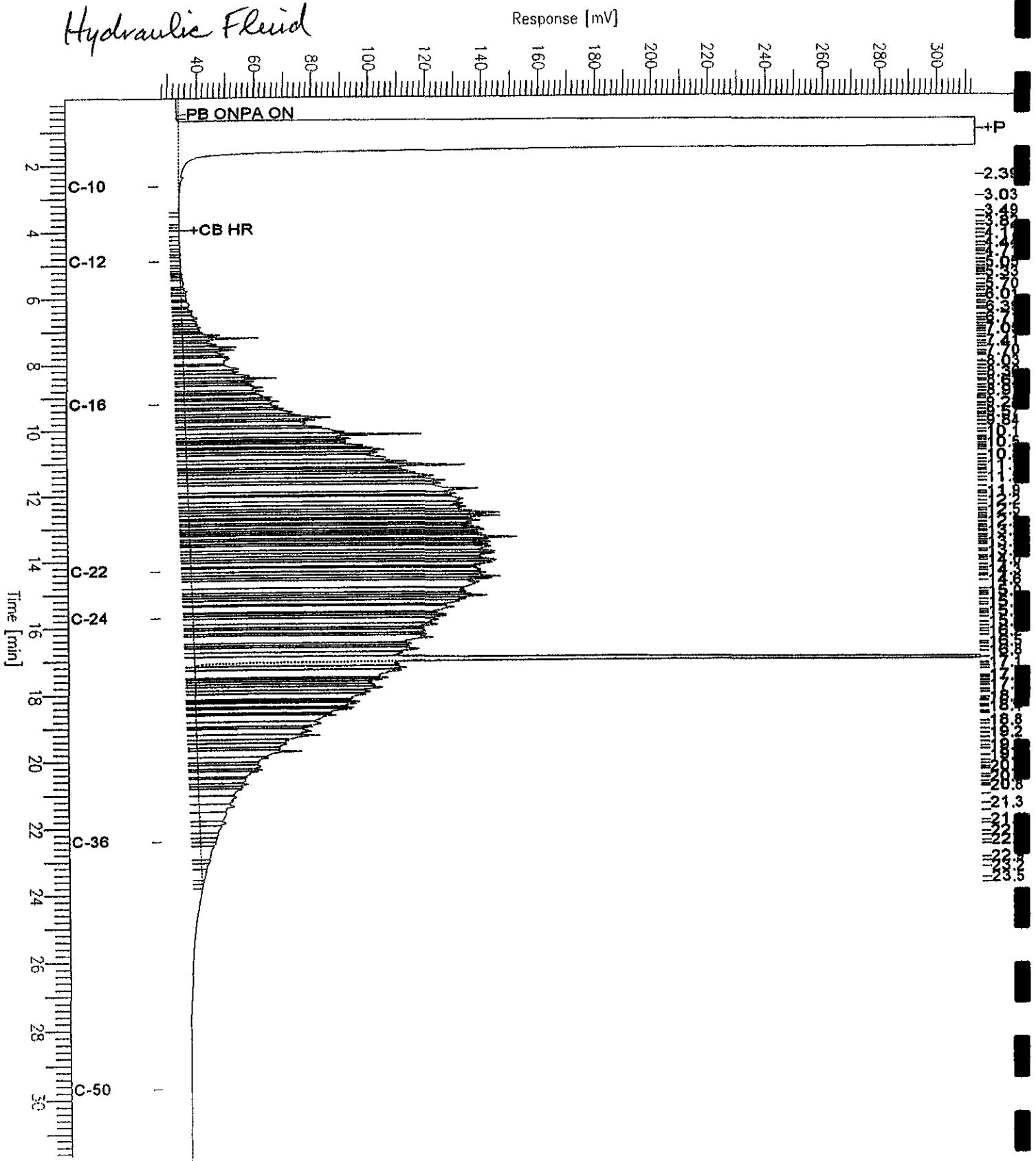
Chromatogram

AUG 9 2002

Sample Name : ccv,02ws1200,ho
 FileName : G:\GC15\CHB\204B020.RAW
 Method : BTEH196.MTH
 Start Time : 0.01 min
 Scale Factor: 0.0

Sample #: 1000mg/L
 Date : 07/24/2002 11:07 AM
 Time of Injection: 07/23/2002 11:25 PM
 Low Point : 26.64 mV
 Plot Scale: 286.5 mV

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Total Extractable Hydrocarbons			
Lab #:	159785	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	SHAKER TABLE
Project#:	030013	Analysis:	EPA 8015B (M)
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC184805	Batch#:	73930
Matrix:	Soil	Prepared:	07/22/02
Units:	mg/Kg	Analyzed:	07/23/02
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.74	50.44	101	67-121

Surrogate	%REC	Limits
Hexacosane	94	48-137

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Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

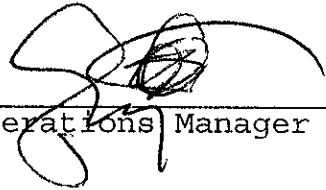
Prepared for:

McCulley, Frick & Gilman, Inc.
180 Howard
Suite 200
San Francisco, CA 94105

Date: 02-OCT-02
Lab Job Number: 160891
Project ID: 030013
Location: Avis-Oakland

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

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Project Manager

Reviewed by: 
Operations Manager

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CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. **44950**

Arcata Office
1165 G Street, Suite E
Arcata, CA 95521-5817
Tel: (707) 826-8430
Fax: (707) 826-8437

Boulder Office
4900 Pearl East Circle
Suite 300W
Boulder, CO 80301-6118
Tel: (303) 447-1823
Fax: (303) 447-1836

Irvine Office
17770 Cartwright Road
Suite 500
Irvine, CA 92614-5850
Tel: (949) 253-2951
Fax: (949) 253-2954

Osburn Office
P.O. Box 30
Wallace, ID
83873-0030
Tel: (208) 556-6811
Fax: (208) 556-7271

San Francisco Office
180 Howard Street, Suite 200
San Francisco, CA 94105-1617
Phone (415) 495-7110 - Fax (415) 495-7107

Seattle Office
19203 35th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: 030013

PROJECT NAME: Avis Oakland

PAGE: 1 OF: 1

SAMPLER (Signature): JT

PROJECT MANAGER: K. Johnson

DATE: 9-23-02

METHOD OF SHIPMENT: Drop off

CARRIER/WAYBILL NO: NA

DESTINATION: Curtis + Tompkins

SAMPLES											ANALYSIS REQUEST						
Field Sample Identification	Sample		Preservation				FILTRATION*	Containers			Constituents/Method			Handling			Remarks
	DATE	TIME	Matrix*	HCl	HNO ₃	H ₂ SO ₄		COLD	VOLUME (ml/oz)	TYPE*	NO.	Oxygens	Trace Metals	TEPH Hy-Fluid	HOLD	RUSH	
PL-1 (6.5-7.0)	9-23-02	1:32	SO				X	Sg	0	6	X	X			X		Encore, 24 hr turn around
DP-3 (7.5-8.0)	9-23-02	3:00	SO				X	Sg	0	6	X	X			X		Encore, 24 hr turn around
HL-2 (7.5-8.0)	9-23-02	3:40	SO				X	6"	1	35	2		X		X		24 hr turn around
TOTAL NUMBER OF CONTAINERS											LABORATORY COMMENTS/CONDITION OF SAMPLES						Cooler Temp:

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RELINQUISHED BY:					RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	SIGNATURE	PRINTED NAME	COMPANY
<i>J. Tompkins</i>	J. Tompkins	MFG - SF	9/23/02	1630	<i>Anna Pajarillo</i>	Anna Pajarillo	CTT
							LABORATORY

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

Gasoline by GC/FID (5035 Prep)

Lab #:	160891	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	8015B (M)
Matrix:	Soil	Batch#:	75420
Units:	mg/Kg	Sampled:	09/23/02
Basis:	as received	Received:	09/23/02
Diln Fac:	1.000		

Field ID:	PL-1 (6.5-7.0)	Lab ID:	160891-001
Type:	SAMPLE	Analyzed:	09/24/02

Analyte	Result	RL
Gasoline C7-C12	ND	0.23
Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	104	60-146

Field ID:	DP-3 (7.5-8.0)	Lab ID:	160891-002
Type:	SAMPLE	Analyzed:	09/24/02

Analyte	Result	RL
Gasoline C7-C12	ND	0.24
Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	58-144
Bromofluorobenzene (FID)	96	60-146

Type:	BLANK	Analyzed:	09/23/02
Lab ID:	QC190492		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0
Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	58-144
Bromofluorobenzene (FID)	107	60-146

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Gasoline by GC/FID (5035 Prep)

Lab #:	160891	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	8015B (M)
Type:	LCS	Basis:	as received
Lab ID:	QC190493	Diln Fac:	1.000
Matrix:	Soil	Batch#:	75420
Units:	mg/Kg	Analyzed:	09/23/02

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.921	99	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	128	58-144
Bromofluorobenzene (FID)	114	60-146

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Gasoline by GC/FID (5035 Prep)

Lab #:	160891	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5035
Project#:	030013	Analysis:	8015B (M)
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	160867-001	Batch#:	75420
Matrix:	Soil	Sampled:	09/17/02
Units:	mg/Kg	Received:	09/20/02
Basis:	as received	Analyzed:	09/23/02

Type: MS Lab ID: QC190494

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1305	10.20	9.456	91	44-133
Surrogate	%REC	Limits			
Trifluorotoluene (FID)	129	58-144			
Bromofluorobenzene (FID)	112	60-146			

Type: MSD Lab ID: QC190495

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.10	9.348	91	44-133	0	31
Surrogate	%REC	Limits				
Trifluorotoluene (FID)	128	58-144				
Bromofluorobenzene (FID)	113	60-146				

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Total Extractable Hydrocarbons

Lab #:	160891	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3550
Project#:	030013	Analysis:	EPA 8015B (M)
Field ID:	HL-1 (7.5-8.0)	Batch#:	75463
Matrix:	Soil	Sampled:	09/23/02
Units:	mg/Kg	Received:	09/23/02
Basis:	as received	Prepared:	09/23/02
Diln Fac:	1.000	Analyzed:	09/24/02

Type: SAMPLE Lab ID: 160891-003

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Hydraulic Fluid, C12-50	ND	5.0

Surrogate	%REC	Limits
Hexacosane	89	48-137

Type: BLANK Lab ID: QC190662

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Hydraulic Fluid, C12-50	ND	5.0

Surrogate	%REC	Limits
Hexacosane	91	48-137

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Total Extractable Hydrocarbons

Lab #:	160891	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3550
Project#:	030013	Analysis:	EPA 8015B (M)
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC190663	Batch#:	75463
Matrix:	Soil	Prepared:	09/23/02
Units:	mg/Kg	Analyzed:	09/24/02
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.97	47.06	94	67-121

Surrogate	%REC	Limits
Hexacosane	94	48-137

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Total Extractable Hydrocarbons

Lab #:	160891	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3550
Project#:	030013	Analysis:	EPA 8015B (M)
Field ID:	HL-1 (7.5-8.0)	Batch#:	75463
MSS Lab ID:	160891-003	Sampled:	09/23/02
Matrix:	Soil	Received:	09/23/02
Units:	mg/Kg	Prepared:	09/23/02
Basis:	as received	Analyzed:	09/24/02
Diln Fac:	1.000		

Type: MS Lab ID: QC190664

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	0.8812	49.89	42.75	84	35-146

Surrogate	%REC	Limits
Hexacosane	86	48-137

Type: MSD Lab ID: QC190665

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.66	32.32	63	35-146	27	48

Surrogate	%REC	Limits
Hexacosane	67	48-137

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Gasoline Oxygenates by GC/MS

Lab #:	160891	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Soil	Sampled:	09/23/02
Units:	ug/Kg	Received:	09/23/02
Basis:	as received	Analyzed:	09/23/02
Batch#:	75441		

Field ID:	PL-1 (6.5-7.0)	Lab ID:	160891-001
Type:	SAMPLE	Diln Fac:	1.087

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	110
MTBE	ND	5.4
Isopropyl Ether (DIPE)	ND	5.4
Ethyl tert-Butyl Ether (ETBE)	ND	5.4
Methyl tert-Amyl Ether (TAME)	ND	5.4

Surrogate	%REC	Limits
Dibromofluoromethane	109	74-124
1,2-Dichloroethane-d4	107	75-128
Toluene-d8	103	80-111
Bromofluorobenzene	103	75-127

Field ID:	DP-3 (7.5-8.0)	Lab ID:	160891-002
Type:	SAMPLE	Diln Fac:	1.087

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	110
MTBE	ND	5.4
Isopropyl Ether (DIPE)	ND	5.4
Ethyl tert-Butyl Ether (ETBE)	ND	5.4
Methyl tert-Amyl Ether (TAME)	ND	5.4

Surrogate	%REC	Limits
Dibromofluoromethane	109	74-124
1,2-Dichloroethane-d4	104	75-128
Toluene-d8	105	80-111
Bromofluorobenzene	99	75-127

NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
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Gasoline Oxygenates by GC/MS

Lab #:	160891	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Soil	Sampled:	09/23/02
Units:	ug/Kg	Received:	09/23/02
Basis:	as received	Analyzed:	09/23/02
Batch#:	75441		

Type: BLANK Diln Fac: 1.000
 Lab ID: QC190580

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	NA	
MTBE	ND	5.0
Isopropyl Ether (DIPE)	NA	
Ethyl tert-Butyl Ether (ETBE)	NA	
Methyl tert-Amyl Ether (TAME)	NA	

Surrogate	%REC	Limits
Dibromofluoromethane	112	74-124
1,2-Dichloroethane-d4	106	75-128
Toluene-d8	103	80-111
Bromofluorobenzene	104	75-127

Type: BLANK Diln Fac: 1.000
 Lab ID: QC190581

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	112	74-124
1,2-Dichloroethane-d4	109	75-128
Toluene-d8	105	80-111
Bromofluorobenzene	103	75-127

NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
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Gasoline Oxygenates by GC/MS

Lab #:	160891	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC190579	Diln Fac:	1.000
Matrix:	Soil	Batch#:	75441
Units:	ug/Kg	Analyzed:	09/23/02

Analyte	Spiked	Result	%REC	Limits
MTBE	50.00	52.49	105	63-121

Surrogate	%REC	Limits
Dibromofluoromethane	100	74-124
1,2-Dichloroethane-d4	97	75-128
Toluene-d8	107	80-111
Bromofluorobenzene	100	75-127

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Gasoline Oxygenates by GC/MS

Lab #:	160891	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	160808-001	Batch#:	75441
Matrix:	Soil	Sampled:	09/16/02
Units:	ug/Kg	Received:	09/17/02
Basis:	as received	Analyzed:	09/24/02

Type: MS Lab ID: QC190641

Analyte	MSS Result	Spiked	Result	%REC	Limits
MTBE	<0.5200	50.00	46.77	94	53-131

Surrogate	%REC	Limits
Dibromofluoromethane	114	74-124
1,2-Dichloroethane-d4	107	75-128
Toluene-d8	102	80-111
Bromofluorobenzene	98	75-127

Type: MSD Lab ID: QC190642

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	50.00	44.29	89	53-131	5	30

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

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APPENDIX F

**Laboratory Reports and Chain-of-Custody Records
for Confirmation Groundwater Samples**



A N A L Y T I C A L R E P O R T

Prepared for:

McCulley, Frick & Gilman, Inc.
180 Howard
Suite 200
San Francisco, CA 94105

Date: 05-AUG-02
Lab Job Number: 159712
Project ID: 030013
Location: Avis-Oakland

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

Reviewed by:


Project Manager

Reviewed by:


Operations Manager

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NELAP # 01107CA

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159712

MFG, Inc.
CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 44933

- Arcata Office
1165 G Street, Suite E
Arcata, CA 95521-5817
Tel: (707) 826-8430
Fax: (707) 826-8437
- Boulder Office
4900 Pearl East Circle
Suite 300W
Boulder, CO 80301-6118
Tel: (303) 447-1823
Fax: (303) 447-1836
- Irvine Office
17770 Cartwright Road
Suite 500
Irvine, CA 92614-5850
Tel: (949) 253-2951
Fax: (949) 253-2954
- Osburn Office
P.O. Box 30
Wallace, ID
83873-0030
Tel: (208) 556-6811
Fax: (208) 556-7271
- San Francisco Office**
180 Howard Street, Suite 200
San Francisco, CA 94105-1617
Phone (415) 495-7110 - Fax (415) 495-7107
- Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: 030013 PROJECT NAME: Avis-Oakland PAGE: 1 OF: 1
 SAMPLER (Signature): [Signature] PROJECT MANAGER: Ken Johnson DATE: 7/17/02
 METHOD OF SHIPMENT: MFG Delivered CARRIER/WAYBILL NO: NA DESTINATION: Curtis & Tompkins

SAMPLES											ANALYSIS REQUEST							
Field Sample Identification	Sample		Preservation					FILTRATION*	Containers			Constituents/Method			Handling			Remarks
	DATE	TIME	Matrix*	HCl	HNO ₃	H ₂ SO ₄	COLD		VOLUME (ml/oz)	TYPE*	NO.	TPH/gps	VOL 6240	Oxyganes	HOLD	RUSH	STANDARD	
UST 1-6W u	7/16/02	8:00	AQ	X			X	U	40ml	G	5	X	X	X			X	
TOTAL NUMBER OF CONTAINERS											LABORATORY COMMENTS/CONDITION OF SAMPLES							Cooler Temp:

Received: On Ice
 Cold Ambient Datac
 Preservation Correct?
 Yes No N/A

RELINQUISHED BY:					RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	SIGNATURE	PRINTED NAME	COMPANY
<u>[Signature]</u>	Christopher Spin	MFG-SF	7/17/02		<u>[Signature]</u>	A. Alvarez	C&T 7.17.02 8:20am

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*KEY Matrix AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air UT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

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Total Volatile Hydrocarbons

Lab #:	159712	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	8015B (M)
Field ID:	UST1-GW	Batch#:	73862
Matrix:	Water	Sampled:	07/16/02
Units:	ug/L	Received:	07/17/02
Diln Fac:	1.000	Analyzed:	07/19/02

Type: SAMPLE Lab ID: 159712-001

Analyte	Result	RL
Gasoline C7-C12	510	50

Surrogate	#REC	Limits
Trifluorotoluene (FID)	105	68-145
Bromofluorobenzene (FID)	115	66-143

Type: BLANK Lab ID: QC184550

Analyte	Result	RL
Gasoline C7-C12	ND	50

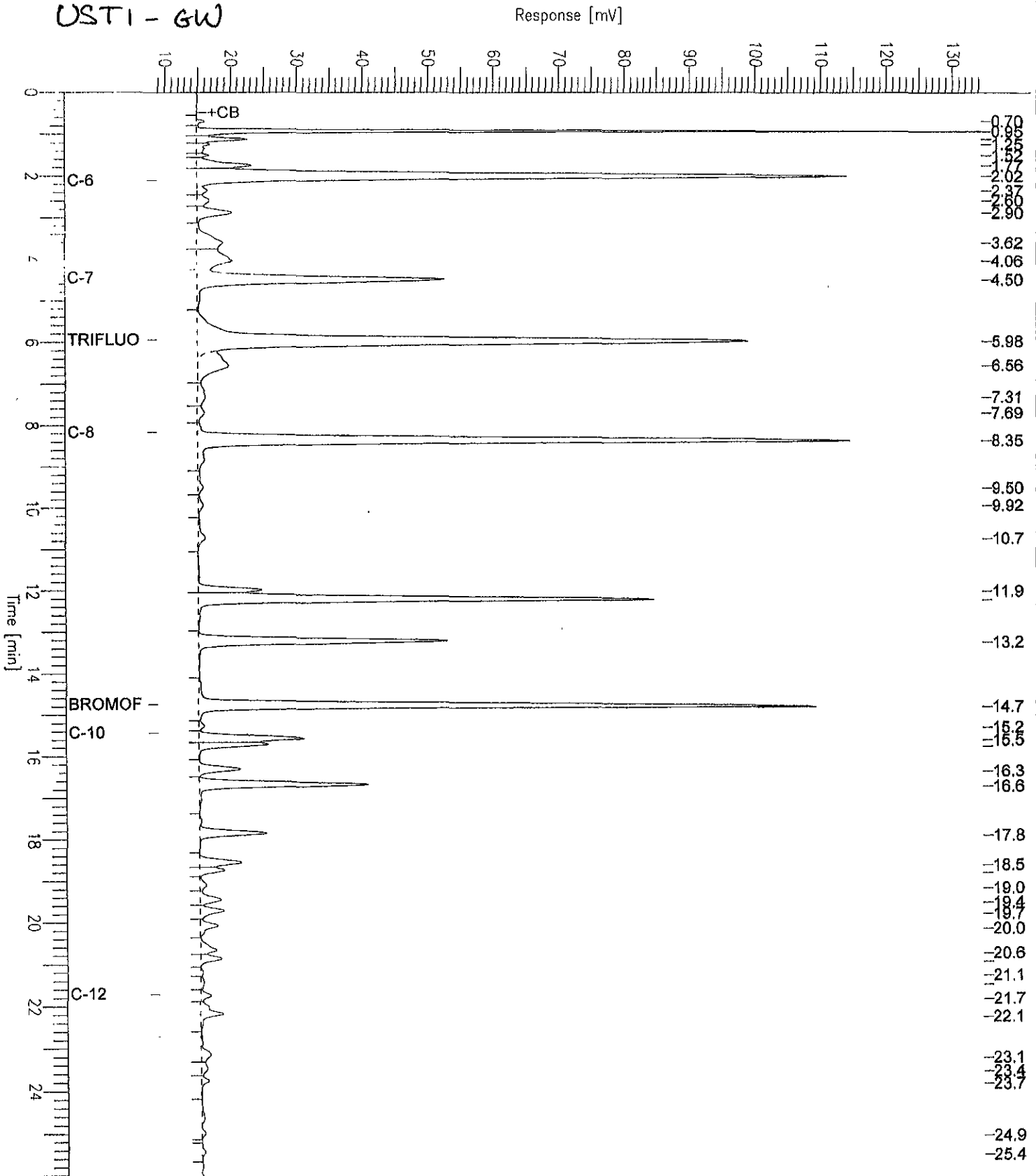
Surrogate	#REC	Limits
Trifluorotoluene (FID)	92	68-145
Bromofluorobenzene (FID)	106	66-143

Sample Name : 159712-001,73862
FileName : G:\GC07\DATA\200A016.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0

End Time : 26.00 min
Plot Offset: 9 mV

Sample #: A1
Date : 7/19/02 07:41 PM
Time of Injection: 7/19/02 07:15 PM
Low Point : 8.84 mV
Plot Scale: 125.6 mV

Page 1 of 1 MFG, Inc.

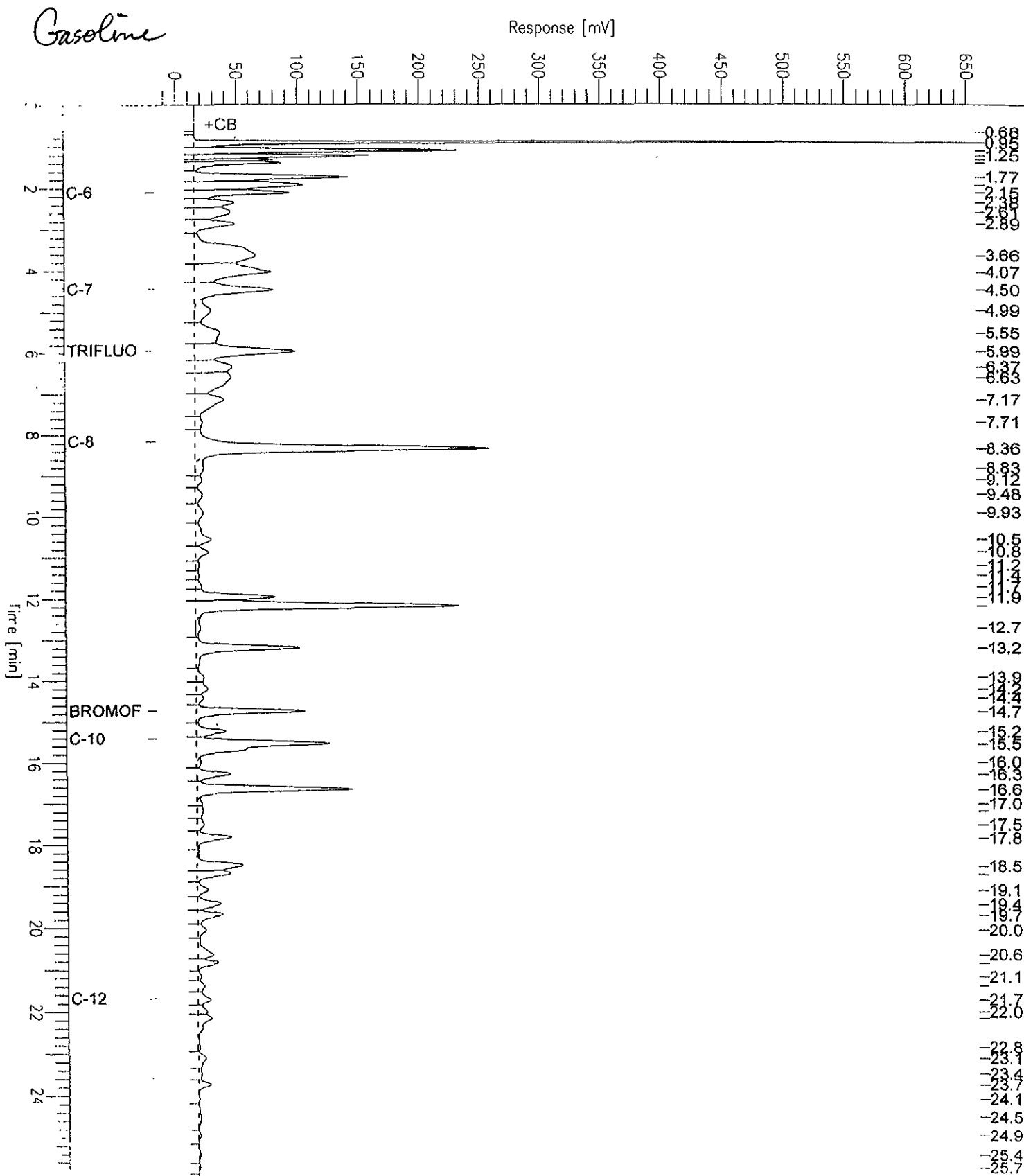


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Sample Name : ccv/lcs,qc184551,73862,02ws1033,5/5000
FileName : G:\GC07\DATA\200A001.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 1.0 Plot Offset: -17 mV

Sample #: Page 1 of 1
Date : 7/19/02 09:53 AM
Time of Injection: 7/19/02 09:27 AM
Low Point : -16.53 mV High Point : 657.30 mV
Plot Scale: 673.8 mV

MFG, Inc.





Total Volatile Hydrocarbons

Lab #:	159712	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	8015B (M)
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC184551	Batch#:	73862
Matrix:	Water	Analyzed:	07/19/02
Units:	ug/L		

Analyte	Spiked	Result	#REC	Limits
Gasoline C7-C12	2,000	2,261	113	79-120

Surrogate	#REC	Limits
Trifluorotoluene (FID)	108	68-145
Bromofluorobenzene (FID)	111	66-143

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Total Volatile Hydrocarbons			
Lab #:	159712	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	8015B (M)
Field ID:	ZZZZZZZZZZ	Batch#:	73862
MSS Lab ID:	159748-001	Sampled:	07/18/02
Matrix:	Water	Received:	07/18/02
Units:	ug/L	Analyzed:	07/19/02
Diln Fac:	1.000		

Type: MS Lab ID: QC184552

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	20.89	2,000	2,192	109	67-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	68-145
Bromofluorobenzene (FID)	117	66-143

Type: MSD Lab ID: QC184553

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,147	106	67-120	2	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	68-145
Bromofluorobenzene (FID)	118	66-143

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Purgeable Organics by GC/MS

Lab #:	159712	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	UST1-GW	Batch#:	73956
Lab ID:	159712-001	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/23/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	130	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	28	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	75	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159712	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	UST1-GW	Batch#:	73956
Lab ID:	159712-001	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/23/02
Diln Fac:	1.000		

Analysis	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	6.0	0.5
m,p-Xylenes	47	0.5
o-Xylene	25	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	7.1	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	16	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	0.6	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-121
1,2-Dichloroethane-d4	120	77-130
Toluene-d8	102	80-120
Bromofluorobenzene	93	80-120

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159712	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184898	Batch#:	73956
Matrix:	Water	Analyzed:	07/23/02
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

ND= Not Detected
RL= Reporting Limit
Page 1 of 2

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Purgeable Organics by GC/MS

Lab #:	159712	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184898	Batch#:	73956
Matrix:	Water	Analyzed:	07/23/02
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	111	77-130
Toluene-d8	95	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

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Purgeable Organics by GC/MS			
Lab #:	159712	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	73956
Units:	ug/L	Analyzed:	07/23/02
Diln Fac:	1.000		

Type: BS Lab ID: QC184896

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	45.38	91	71-131
Benzene	50.00	44.45	89	76-120
Trichloroethene	50.00	47.44	95	78-120
Toluene	50.00	46.03	92	79-120
Chlorobenzene	50.00	49.16	98	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-121
1,2-Dichloroethane-d4	106	77-130
Toluene-d8	91	80-120
Bromofluorobenzene	98	80-120

Type: BSD Lab ID: QC184897

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	40.84	82	71-131	11	20
Benzene	50.00	44.83	90	76-120	1	20
Trichloroethene	50.00	48.13	96	78-120	1	20
Toluene	50.00	45.54	91	79-120	1	20
Chlorobenzene	50.00	48.43	97	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-121
1,2-Dichloroethane-d4	109	77-130
Toluene-d8	103	80-120
Bromofluorobenzene	92	80-120

Gasoline Oxygenates by GC/MS

Lab #:	159712	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	UST1-GW	Batch#:	73956
Matrix:	Water	Sampled:	07/16/02
Units:	ug/L	Received:	07/17/02
Diln Fac:	1.000	Analyzed:	07/23/02

Type: SAMPLE Lab ID: 159712-001

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	30	20
MTBE	130	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-121
1,2-Dichloroethane-d4	120	77-130
Toluene-d8	102	80-120
Bromofluorobenzene	93	80-120

Type: BLANK Lab ID: QC184898

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	20
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	111	77-130
Toluene-d8	95	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

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MFG, Inc.

Gasoline Oxygenates by GC/MS			
Lab #:	159712	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	73956
Units:	ug/L	Analyzed:	07/23/02
Diln Fac:	1.000		

Type: BS Lab ID: QC184896

Analyte	Spiked	Result	*REC	Limits
MTBE	50.00	43.91	88	49-144

Surrogate	*REC	Limits
Dibromofluoromethane	97	80-121
1,2-Dichloroethane-d4	106	77-130
Toluene-d8	91	80-120
Bromofluorobenzene	98	80-120

Type: BSD Lab ID: QC184897

Analyte	Spiked	Result	*REC	Limits	RPD	Lim
MTBE	50.00	42.08	84	49-144	4	21

Surrogate	*REC	Limits
Dibromofluoromethane	94	80-121
1,2-Dichloroethane-d4	109	77-130
Toluene-d8	103	80-120
Bromofluorobenzene	92	80-120



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

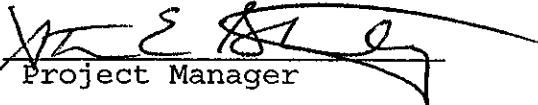
Prepared for:

McCulley, Frick & Gilman, Inc.
180 Howard
Suite 200
San Francisco, CA 94105

Date: 14-AUG-02
Lab Job Number: 159737
Project ID: 030013
Location: Avis-Oakland

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

Reviewed by:


Project Manager

Reviewed by:


Operations Manager

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NELAP # 01107CA

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MFG, Inc.

Laboratory Number: **159737**
Client: **MFG, Inc.**
Project Name: **Avis-Oakland**

Receipt Date: **07/17/02**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for one water sample received from the above referenced project. The sample was received cold and intact.

Volatile Organic Compounds: No analytical problems were encountered.

Semi-Volatile Organic Compounds: The 2-fluorobiphenyl and terphenyl-d14 surrogate recoveries for sample W01-GW (159737-001) were outside acceptance limits. No target compounds were detected in the sample.

The blank spike duplicate recovery for acenaphthene was outside acceptance limits. The associated blank spike recovery was acceptable. No other analytical problems were encountered.

PCBs: The surrogate recoveries for sample W01-GW (159737-001) were outside acceptance limits. No target compounds were detected in the sample. No other analytical problems were encountered.

Metals: No analytical problems were encountered.

General Chemistry: No analytical problems were encountered.

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159737

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MFG, Inc.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 44932

MFG, Inc.

Arcata Office
1185 G Street, Suite E
Arcata, CA 95521-5817
Tel: (707) 826-8430
Fax: (707) 826-8437

Boulder Office
4900 Pearl East Circle
Suite 300W
Boulder, CO 80301-6118
Tel: (303) 447-1823
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Tel: (208) 556-6811
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San Francisco Office
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Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: 030013 PROJECT NAME: Avis - Oakland PAGE: 1 OF: 1
SAMPLER (Signature): [Signature] PROJECT MANAGER: Ken Johnson DATE: 7/17/02
METHOD OF SHIPMENT: MEL Delivered CARRIER/WAYBILL NO: NA DESTINATION: Curtis & Tompkins

Table with columns: SAMPLES (Field Sample Identification, DATE, TIME, Matrix, HCl, HNO3, H2SO4, COLD, FILTRATION*, VOLUME, TYPE, NO.) and ANALYSIS REQUEST (Constituents/Method: TPH d, mail, VOCs/svocs, PCBs, LVPF5 Metals; Handling: HOLD, RUSH, STANDARD; Remarks). Includes summary row: TOTAL NUMBER OF CONTAINERS 6, LABORATORY COMMENTS/CONDITION OF SAMPLES, Cooler Temp.

Signature and Date section. RELINQUISHED BY: SIGNATURE [Signature], PRINTED NAME Christopher Spill, COMPANY MFG-SF, DATE 7/17/02, TIME 1735. RECEIVED BY: SIGNATURE [Signature], PRINTED NAME Anna Paparella, COMPANY CAT Labs.

*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

Per the Co. w/lec.

Purgeable Organics by GC/MS

Lab #: 159737	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5030B
Project#: 030013	Analysis: EPA 8260B
Field ID: W01-GW	Batch#: 74012
Lab ID: 159737-001	Sampled: 07/17/02
Matrix: Water	Received: 07/17/02
Units: ug/L	Analyzed: 07/25/02
Diln Fac: 5.000	

Analyte	Result	RL
Freon 12	ND	5.0
Chloromethane	ND	5.0
Vinyl Chloride	ND	2.5
Bromomethane	ND	5.0
Chloroethane	ND	5.0
Trichlorofluoromethane	ND	5.0
Acetone	51	50
Freon 113	ND	25
1,1-Dichloroethene	ND	2.5
Methylene Chloride	ND	50
Carbon Disulfide	ND	2.5
MTBE	ND	2.5
trans-1,2-Dichloroethene	ND	2.5
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	2.5
2-Butanone	ND	50
cis-1,2-Dichloroethene	ND	2.5
2,2-Dichloropropane	ND	2.5
Chloroform	ND	2.5
Bromochloromethane	ND	2.5
1,1,1-Trichloroethane	ND	2.5
1,1-Dichloropropene	ND	2.5
Carbon Tetrachloride	ND	2.5
1,2-Dichloroethane	ND	2.5
Benzene	ND	2.5
Trichloroethene	ND	2.5
1,2-Dichloropropane	ND	2.5
Bromodichloromethane	ND	2.5
Dibromomethane	ND	2.5
4-Methyl-2-Pentanone	ND	50
cis-1,3-Dichloropropene	ND	2.5
Toluene	ND	2.5
trans-1,3-Dichloropropene	ND	2.5
1,1,2-Trichloroethane	ND	2.5
2-Hexanone	ND	50
1,3-Dichloropropane	ND	2.5
Tetrachloroethene	ND	2.5

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS

Lab #: 159737	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5030B
Project#: 030013	Analysis: EPA 8260B
Field ID: W01-GW	Batch#: 74012
Lab ID: 159737-001	Sampled: 07/17/02
Matrix: Water	Received: 07/17/02
Units: ug/L	Analyzed: 07/25/02
Diln Fac: 5.000	

Analyte	Result	RL
Dibromochloromethane	ND	2.5
1,2-Dibromoethane	ND	2.5
Chlorobenzene	ND	2.5
1,1,1,2-Tetrachloroethane	ND	2.5
Ethylbenzene	ND	2.5
m,p-Xylenes	ND	2.5
o-Xylene	ND	2.5
Styrene	ND	2.5
Bromoform	ND	5.0
Isopropylbenzene	ND	2.5
1,1,2,2-Tetrachloroethane	ND	2.5
1,2,3-Trichloropropane	ND	2.5
Propylbenzene	ND	2.5
Bromobenzene	ND	2.5
1,3,5-Trimethylbenzene	ND	2.5
2-Chlorotoluene	ND	2.5
4-Chlorotoluene	ND	2.5
tert-Butylbenzene	ND	2.5
1,2,4-Trimethylbenzene	ND	2.5
sec-Butylbenzene	ND	2.5
para-Isopropyl Toluene	ND	2.5
1,3-Dichlorobenzene	ND	2.5
1,4-Dichlorobenzene	ND	2.5
n-Butylbenzene	ND	2.5
1,2-Dichlorobenzene	ND	2.5
1,2-Dibromo-3-Chloropropane	ND	2.5
1,2,4-Trichlorobenzene	ND	2.5
Hexachlorobutadiene	ND	2.5
Naphthalene	ND	2.5
1,2,3-Trichlorobenzene	ND	2.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-121
1,2-Dichloroethane-d4	112	77-130
Toluene-d8	103	80-120
Bromofluorobenzene	98	80-120

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 ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC185117	Batch#:	74012
Matrix:	Water	Analyzed:	07/25/02
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

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ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC185117	Batch#:	74012
Matrix:	Water	Analyzed:	07/25/02
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	100	77-130
Toluene-d8	92	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	74012
Units:	ug/L	Analyzed:	07/25/02
Diln Fac:	1.000		

Type: BS Lab ID: QC185115

Analyte	Spiked	Result	#REC	Limite
1,1-Dichloroethene	50.00	47.49	95	71-131
Benzene	50.00	47.85	96	76-120
Trichloroethene	50.00	51.73	103	78-120
Toluene	50.00	51.85	104	79-120
Chlorobenzene	50.00	51.39	103	80-120

Surrogate	#REC	Limite
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	105	77-130
Toluene-d8	97	80-120
Bromofluorobenzene	90	80-120

Type: BSD Lab ID: QC185116

Analyte	Spiked	Result	#REC	Limite	RPD	Lim
1,1-Dichloroethene	50.00	42.60	85	71-131	11	20
Benzene	50.00	46.22	92	76-120	3	20
Trichloroethene	50.00	48.61	97	78-120	6	20
Toluene	50.00	47.52	95	79-120	9	20
Chlorobenzene	50.00	48.61	97	80-120	6	20

Surrogate	#REC	Limite
Dibromofluoromethane	91	80-121
1,2-Dichloroethane-d4	100	77-130
Toluene-d8	94	80-120
Bromofluorobenzene	95	80-120

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Semivolatile Organics by GC/MS			
Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8270C
Field ID:	W01-GW	Batch#:	73963
Lab ID:	159737-001	Sampled:	07/17/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Prepared:	07/23/02
Diln Fac:	1.000	Analyzed:	08/01/02

Analyte	Result	RL
N-Nitrosodimethylamine	ND	9.9
Phenol	ND	9.9
bis(2-Chloroethyl) ether	ND	9.9
2-Chlorophenol	ND	9.9
1,3-Dichlorobenzene	ND	9.9
1,4-Dichlorobenzene	ND	9.9
Benzyl alcohol	ND	9.9
1,2-Dichlorobenzene	ND	9.9
2-Methylphenol	ND	9.9
bis(2-Chloroisopropyl) ether	ND	9.9
4-Methylphenol	ND	9.9
N-Nitroso-di-n-propylamine	ND	9.9
Hexachloroethane	ND	9.9
Nitrobenzene	ND	9.9
Isophorone	ND	9.9
2-Nitrophenol	ND	20
2,4-Dimethylphenol	ND	9.9
Benzoic acid	ND	50
bis(2-Chloroethoxy) methane	ND	9.9
2,4-Dichlorophenol	ND	9.9
1,2,4-Trichlorobenzene	ND	9.9
Naphthalene	ND	9.9
4-Chloroaniline	ND	9.9
Hexachlorobutadiene	ND	9.9
4-Chloro-3-methylphenol	ND	9.9
2-Methylnaphthalene	ND	9.9
Hexachlorocyclopentadiene	ND	50
2,4,6-Trichlorophenol	ND	9.9
2,4,5-Trichlorophenol	ND	9.9
2-Chloronaphthalene	ND	9.9
2-Nitroaniline	ND	20
Dimethylphthalate	ND	9.9
Acenaphthylene	ND	9.9
2,6-Dinitrotoluene	ND	9.9
3-Nitroaniline	ND	20
Acenaphthene	ND	9.9
2,4-Dinitrophenol	ND	50
4-Nitrophenol	ND	20
Dibenzofuran	ND	9.9
2,4-Dinitrotoluene	ND	9.9
Diethylphthalate	ND	9.9
Fluorene	ND	9.9
4-Chlorophenyl-phenylether	ND	9.9
4-Nitroaniline	ND	20
4,6-Dinitro-2-methylphenol	ND	50
N-Nitrosodiphenylamine	ND	9.9
Azobenzene	ND	9.9
4-Bromophenyl-phenylether	ND	9.9
Hexachlorobenzene	ND	9.9
Pentachlorophenol	ND	20
Phenanthrene	ND	9.9
Anthracene	ND	9.9
Di-n-butylphthalate	ND	9.9
Fluoranthene	ND	9.9

*= Value outside of QC limits; see narrative
 ND= Not Detected
 RL= Reporting Limit
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12.0

MFG, Inc.

Semi-volatile Organics by GC/MS			
Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8270C
Field ID:	W01-GW	Batch#:	73963
Lab ID:	159737-001	Sampled:	07/17/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Prepared:	07/23/02
Diln Fac:	1.000	Analyzed:	08/01/02

Analyte	Result	RL
Pyrene	ND	9.9
Butylbenzylphthalate	ND	9.9
3,3'-Dichlorobenzidine	ND	20
Benzo (a) anthracene	ND	9.9
Chrysene	ND	9.9
bis (2-Ethylhexyl) phthalate	ND	9.9
Di-n-octylphthalate	ND	9.9
Benzo (b) fluoranthene	ND	9.9
Benzo (k) fluoranthene	ND	9.9
Benzo (a) pyrene	ND	9.9
Indeno (1,2,3-cd) pyrene	ND	9.9
Dibenz (a,h) anthracene	ND	9.9
Benzo (g,h,i) perylene	ND	9.9

Substrate	SRG	Limit
2-Fluorophenol	69	28-128
Phenol-d5	52	34-120
2,4,6-Tribromophenol	34	32-123
Nitrobenzene-d5	57	38-120
2-Fluorobiphenyl	29 *	40-120
Terphenyl-d14	7 *	29-132

*= Value outside of QC limits; see narrative
 ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

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12.0

MFG, Inc.

Semivolatile Organics by GC/MS

Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184930	Batch#:	73963
Matrix:	Water	Prepared:	07/23/02
Units:	ug/L	Analyzed:	07/30/02

Analyte	Result	RL
N-Nitrosodimethylamine	ND	10
Phenol	ND	10
bis(2-Chloroethyl) ether	ND	10
2-Chlorophenol	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
Benzyl alcohol	ND	10
1,2-Dichlorobenzene	ND	10
2-Methylphenol	ND	10
bis(2-Chloroisopropyl) ether	ND	10
4-Methylphenol	ND	10
N-Nitroso-di-n-propylamine	ND	10
Hexachloroethane	ND	10
Nitrobenzene	ND	10
Isophorone	ND	10
2-Nitrophenol	ND	20
2,4-Dimethylphenol	ND	10
Benzoic acid	ND	50
bis(2-Chloroethoxy) methane	ND	10
2,4-Dichlorophenol	ND	10
1,2,4-Trichlorobenzene	ND	10
Naphthalene	ND	10
4-Chloroaniline	ND	10
Hexachlorobutadiene	ND	10
4-Chloro-3-methylphenol	ND	10
2-Methylnaphthalene	ND	10
Hexachlorocyclopentadiene	ND	50
2,4,6-Trichlorophenol	ND	10
2,4,5-Trichlorophenol	ND	10
2-Chloronaphthalene	ND	10
2-Nitroaniline	ND	20
Dimethylphthalate	ND	10
Acenaphthylene	ND	10
2,6-Dinitrotoluene	ND	10
3-Nitroaniline	ND	20
Acenaphthene	ND	10
2,4-Dinitrophenol	ND	50
4-Nitrophenol	ND	20

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

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AUG 16 2002 13.0

MFG, Inc.

Semivolatile Organics by GC/MS

Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184930	Batch#:	73963
Matrix:	Water	Prepared:	07/23/02
Units:	ug/L	Analyzed:	07/30/02

Analyte	Result	RL
Dibenzofuran	ND	10
2,4-Dinitrotoluene	ND	10
Diethylphthalate	ND	10
Fluorene	ND	10
4-Chlorophenyl-phenylether	ND	10
4-Nitroaniline	ND	20
4,6-Dinitro-2-methylphenol	ND	50
N-Nitrosodiphenylamine	ND	10
Azobenzene	ND	10
4-Bromophenyl-phenylether	ND	10
Hexachlorobenzene	ND	10
Pentachlorophenol	ND	20
Phenanthrene	ND	10
Anthracene	ND	10
Di-n-butylphthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Butylbenzylphthalate	ND	10
3,3'-Dichlorobenzidine	ND	20
Benzo (a) anthracene	ND	10
Chrysene	ND	10
bis(2-Ethylhexyl)phthalate	ND	10
Di-n-octylphthalate	ND	10
Benzo (b) fluoranthene	ND	10
Benzo (k) fluoranthene	ND	10
Benzo (a) pyrene	ND	10
Indeno (1,2,3-cd) pyrene	ND	10
Dibenz (a,h) anthracene	ND	10
Benzo (g,h,i) perylene	ND	10

Surrogate	%REC	Limits
2-Fluorophenol	72	28-128
Phenol-d5	63	34-120
2,4,6-Tribromophenol	65	32-123
Nitrobenzene-d5	71	38-120
2-Fluorobiphenyl	73	40-120
Terphenyl-d14	66	29-132

ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

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MFG, Inc.

Semivolatile Organics by GC/MS			
Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8270C
Matrix:	Water	Batch#:	73963
Units:	ug/L	Prepared:	07/23/02
Diln Fac:	1.000	Analyzed:	07/31/02

Type: BS Lab ID: QC184931

Analyte	Spiked	Result	%REC	Limits
Phenol	100.0	59.29	59	36-120
2-Chlorophenol	100.0	64.13	64	40-120
1,4-Dichlorobenzene	50.00	26.48	53	38-120
N-Nitroso-di-n-propylamine	50.00	26.01	52	32-120
1,2,4-Trichlorobenzene	50.00	26.39	53	40-120
4-Chloro-3-methylphenol	100.0	66.20	66	42-120
Acenaphthene	50.00	26.47	53	50-120
4-Nitrophenol	100.0	58.14	58	38-120
2,4-Dinitrotoluene	50.00	28.57	57	49-120
Pentachlorophenol	100.0	63.40	63	22-120
Pyrene	50.00	29.11	58	41-120

Surrogate	%REC	Limits
2-Fluorophenol	64	28-128
Phenol-d5	58	34-120
2,4,6-Tribromophenol	64	32-123
Nitrobenzene-d5	68	38-120
2-Fluorobiphenyl	69	40-120
Terphenyl-d14	67	29-132

Type: BSD Lab ID: QC184932

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	100.0	49.68	50	36-120	18	22
2-Chlorophenol	100.0	53.87	54	40-120	17	23
1,4-Dichlorobenzene	50.00	21.57	43	38-120	20	26
N-Nitroso-di-n-propylamine	50.00	21.77	44	32-120	18	20
1,2,4-Trichlorobenzene	50.00	21.77	44	40-120	19	23
4-Chloro-3-methylphenol	100.0	57.33	57	42-120	14	20
Acenaphthene	50.00	22.63	45 *	50-120	16	20
4-Nitrophenol	100.0	51.06	51	38-120	13	20
2,4-Dinitrotoluene	50.00	25.66	51	49-120	11	20
Pentachlorophenol	100.0	52.65	53	22-120	19	20
Pyrene	50.00	24.60	49	41-120	17	20

Surrogate	%REC	Limits
2-Fluorophenol	51	28-128
Phenol-d5	51	34-120
2,4,6-Tribromophenol	55	32-123
Nitrobenzene-d5	56	38-120
2-Fluorobiphenyl	58	40-120
Terphenyl-d14	59	29-132

*= Value outside of QC limits; see narrative
 RPD= Relative Percent Difference
 Page 1 of 1

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Polychlorinated Biphenyls (PCBs)

Lab #: 159737	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 3520C
Project#: 030013	Analysis: EPA 8082
Field ID: W01-GW	Batch#: 73964
Matrix: Water	Sampled: 07/17/02
Units: ug/L	Received: 07/17/02
Diln Fac: 1.000	Prepared: 07/23/02

Type: SAMPLE Analyzed: 07/29/02
 Lab ID: 159737-001 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.49
Aroclor-1221	ND	0.98
Aroclor-1232	ND	0.49
Aroclor-1242	ND	0.49
Aroclor-1248	ND	0.49
Aroclor-1254	ND	0.49
Aroclor-1260	ND	0.49

Surrogate	%REC	Limits
TCMX	26 *	37-140
Decachlorobiphenyl	11 *	17-150

Type: BLANK Analyzed: 07/27/02
 Lab ID: QC184933 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.40
Aroclor-1221	ND	0.80
Aroclor-1232	ND	0.40
Aroclor-1242	ND	0.40
Aroclor-1248	ND	0.40
Aroclor-1254	ND	0.40
Aroclor-1260	ND	0.40

Surrogate	%REC	Limits
TCMX	82	37-140
Decachlorobiphenyl	48	17-150

*= Value outside of QC limits; see narrative
 ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

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Polychlorinated Biphenyls (PCBs)			
Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC184934	Batch#:	73964
Matrix:	Water	Prepared:	07/23/02
Units:	ug/L	Analyzed:	07/26/02

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1254	5.000	4.327	87	60-123

Surrogate	%REC	Limits
TCMX	80	37-140
Decachlorobiphenyl	31	17-150

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Polychlorinated Biphenyls (PCBs)			
Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	73964
MSS Lab ID:	159719-002	Sampled:	07/16/02
Matrix:	Water	Received:	07/16/02
Units:	ug/L	Prepared:	07/23/02
Diln Fac:	1.000		

Type: MS Analyzed: 07/26/02
 Lab ID: QC184935 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1254	<0.04900	4.717	4.557	97	50-133

Surrogate	%REC	Limits
TCMX	91	37-140
Decachlorobiphenyl	55	17-150

Type: MSD Analyzed: 07/27/02
 Lab ID: QC184936 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1254	4.717	4.920	104	50-133	8	35

Surrogate	%REC	Limits
TCMX	87	37-140
Decachlorobiphenyl	80	17-150

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California LUFT Metals			
Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3010
Project#:	030013	Analysis:	EPA 6010B
Field ID:	W01-GW	Sampled:	07/17/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Prepared:	07/19/02
Diln Fac:	1.000	Analyzed:	07/23/02
Batch#:	73883		

Type: SAMPLE Lab ID: 159737-001

Analyte	Result	RL
Cadmium	ND	5.0
Chromium	ND	10
Lead	ND	3.0
Nickel	ND	20
Zinc	ND	20

Type: BLANK Lab ID: QC184613

Analyte	Result	RL
Cadmium	ND	5.0
Chromium	ND	10
Lead	ND	3.0
Nickel	ND	20
Zinc	ND	20

ND= Not Detected
 RL= Reporting Limit
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California LUFF Metals

Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3010
Project#:	030013	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	73883
Units:	ug/L	Prepared:	07/19/02
Diln Fac:	1.000	Analyzed:	07/23/02

Type: BS Lab ID: QC184614

Analyte	Spiked	Result	PREC	Limite
Cadmium	50.00	44.40	89	80-120
Chromium	200.0	184.0	92	79-120
Lead	100.0	86.20	86	78-120
Nickel	500.0	439.0	88	78-120
Zinc	500.0	422.0	84	78-120

Type: BSD Lab ID: QC184615

Analyte	Spiked	Result	PREC	Limite	RPD	Lim
Cadmium	50.00	44.20	88	80-120	0	20
Chromium	200.0	187.0	94	79-120	2	20
Lead	100.0	96.00	96	78-120	11	20
Nickel	500.0	443.0	89	78-120	1	20
Zinc	500.0	440.0	88	78-120	4	20

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MFG, Inc.

California LUFT Metals			
Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3010
Project#:	030013	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	73883
MSS Lab ID:	159726-001	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Prepared:	07/19/02
Diln Fac:	1.000	Analyzed:	07/23/02

Type: MS Lab ID: QC184616

Analyte	MSS Result	Spiked	Result	%REC	Limite
Cadmium	0.4690	50.00	42.60	84	61-124
Chromium	16.00	200.0	181.0	83	64-123
Lead	<1.700	100.0	83.70	84	58-129
Nickel	11.50	500.0	429.0	84	60-126
Zinc	130.0	500.0	540.0	82	49-139

Type: MSD Lab ID: QC184617

Analyte	Spiked	Result	%REC	Limite	RPD	Lim
Cadmium	50.00	44.40	88	61-124	4	20
Chromium	200.0	188.0	86	64-123	4	20
Lead	100.0	86.00	86	58-129	3	28
Nickel	500.0	444.0	87	60-126	3	20
Zinc	500.0	562.0	86	49-139	4	31

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8.0

MFG, Inc.

Total Oil & Grease (HEM)

Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 1664A
Project#:	030013		
Analyte:	Oil & Grease (HEM)	Batch#:	73971
Field ID:	W01-GW	Sampled:	07/17/02
Matrix:	Water	Received:	07/17/02
Units:	mg/L	Analyzed:	07/22/02

Type	Lab ID	Result	RL	Diln Fac
SAMPLE	159737-001	ND	8.3	1.660
BLANK	QC184960	ND	5.6	1.120

ND= Not Detected
 RL= Reporting Limit
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Total Oil & Grease (HEM)			
Lab #:	159737	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 1664A
Project#:	030013		
Analyte:	Oil & Grease (HEM)	Diln Fac:	1.120
Matrix:	Water	Batch#:	73971
Units:	mg/L	Analyzed:	07/22/02

Type	Lab ID	Spiked	Result	IREC	Limits	RPD	Lim
BS	QC184961	44.44	42.60	96	78-114		
BSD	QC184962	44.44	45.40	102	78-114	7	20



ANALYTICAL REPORT

Prepared for:

McCulley, Frick & Gilman, Inc.
180 Howard
Suite 200
San Francisco, CA 94105

Date: 26-AUG-02
Lab Job Number: 160075
Project ID: 030013
Location: Avis-Oakland

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

Reviewed by: 
Project Manager

Reviewed by: 
Operations Manager

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AUG 30 2002

MFG, Inc.

160075

MFG, Inc.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 43351

Arcata Office
1165 G Street, Suite E
Arcata, CA 95521-5817
Tel: (707) 826-8430
Fax: (707) 826-8437

Boulder Office
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Boulder, CO 80301-6118
Tel: (303) 447-1823
Fax: (303) 447-1836

Irvine Office
17770 Cartwright Road
Suite 500
Irvine, CA 92614-5850
Tel: (949) 253-2951
Fax: (949) 253-2954

Osburn Office
P.O. Box 30
Wallace, ID
83873-0030
Tel: (208) 556-6811
Fax: (208) 556-7271

San Francisco Office
180 Howard Street, Suite 200
San Francisco, CA 94105-1617
Phone (415) 495-7110 - Fax (415) 495-7107

Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: 030013 PROJECT NAME: Avis Oakland PAGE: 1 OF: 1
 SAMPLER (Signature): JT. PROJECT MANAGER: K. Johnson DATE: _____
 METHOD OF SHIPMENT: _____ CARRIER/WAYBILL NO: _____ DESTINATION: _____

SAMPLES											ANALYSIS REQUEST								
Field Sample Identification	Sample			Preservation					Containers			Constituents/Method			Handling		Remarks		
	DATE	TIME	Matrix*	HCl	HNO ₃	H ₂ SO ₄	COLD	none	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	TEKH + M.O.I.	PCBs	SVOCs	HOLD		RUSH	STANDARD
W.O. 2-G.W.	8/7/02		AQ					X				1	X						
W.O. 2-G.W.	8/7/02		AQ					X				1		X					
W.O. 2-G.W.	8/7/02		AQ					X				1			X				
W.O. 2-G.W.	8/7/02		AQ					X				1			X				

Preservation Correct?
 Yes No N/A

Received Ice Cold Ambient Intact

RELINQUISHED BY:					RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	SIGNATURE	PRINTED NAME	COMPANY
<u>JT. Triolo</u>	<u>J. Triolo</u>	<u>MFG</u>	<u>8/7/02</u>	<u>11:15</u>	<u>[Signature]</u>	<u>Arcata Co.</u>	<u>T. Wilson</u>

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 AUG 30 2002

*KEY Matrix AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

Total Extractable Hydrocarbons			
Lab #:	160075	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8015B(M)
Field ID:	W.O.2-G.W.	Batch#:	74372
Matrix:	Water	Sampled:	08/07/02
Units:	ug/L	Received:	08/07/02
Diln Fac:	1.000	Prepared:	08/09/02

Type: SAMPLE Analyzed: 08/13/02
 Lab ID: 160075-001

Analyte	Result	RL
Diesel C10-C24	1,000 H L Y	50
Motor Oil C24-C36	1,300	300

Surrogate	%REC	Limits
Hexacosane	66	39-137

Type: BLANK Analyzed: 08/09/02
 Lab ID: QC186450

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	123	39-137

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits fuel pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

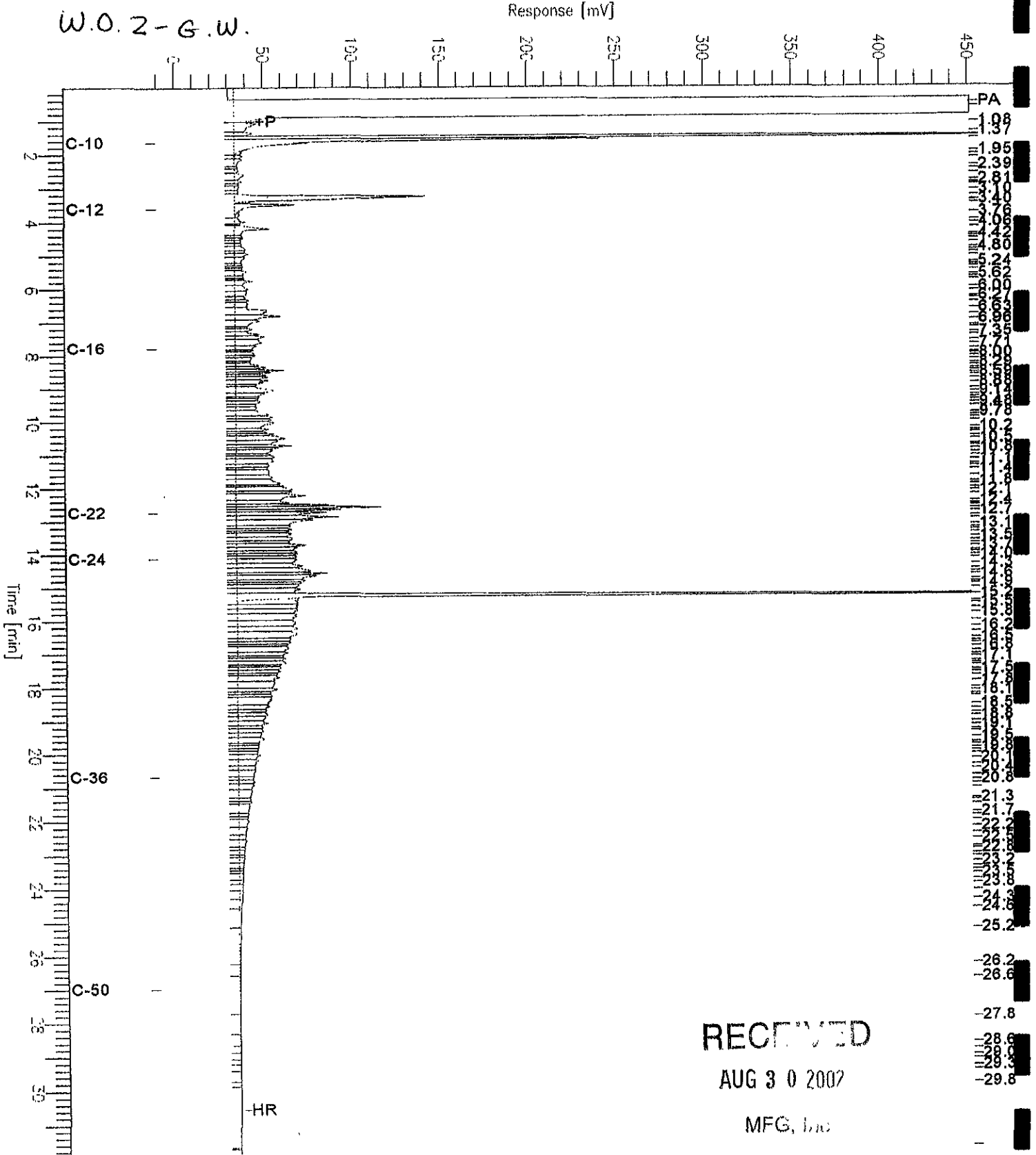
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Chromatogram

372 5/27 8/14/02

Sample Name : 160075-001,74098
FileName : G:\GC17\CHA\225A004.RAW
Method : ATEH206.MTH
Start Time : 0.01 min
Scale Factor: 0.0
End Time : 31.91 min
Plot Offset: -10 mV

Sample #: 74298
Date : 08/13/2002 03:54 PM
Time of Injection: 08/13/2002 03:21 PM
Low Point : -10.31 mV
Plot Scale: 461.5 mV
Page 1 of 1
High Point : 451.18 mV

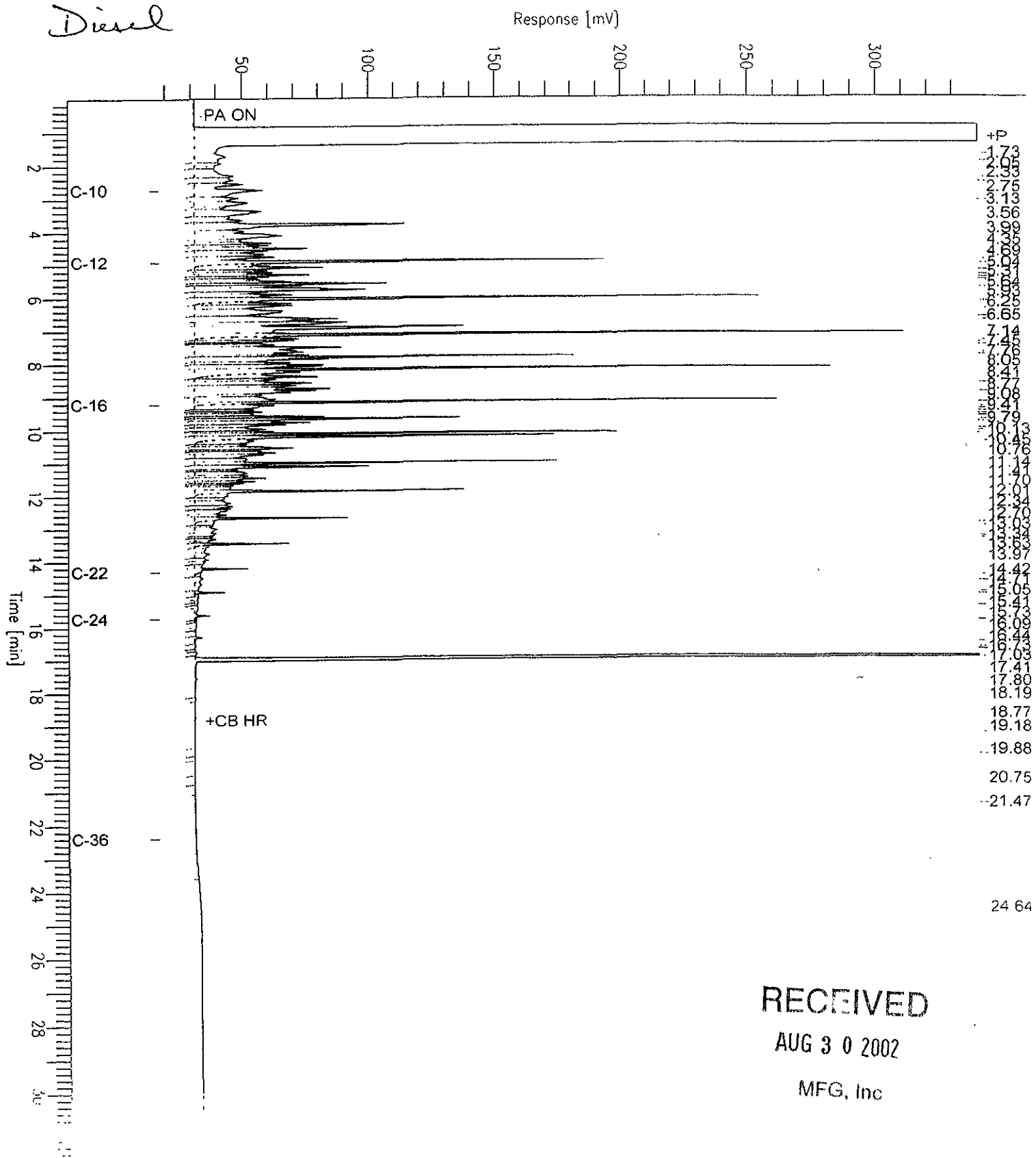


Chromatogram

Sample Name : ccv,02ws1228,ds1
FileName : G:\GC11\CHA\221A002.RAW
Method : ATEH202.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 31.91 min
Plot Offset: 18 mV

Sample #: 500mg/L
Date : 8/9/02 02:24 PM
Time of Injection: 8/9/02 11:10 AM
Low Point : 18.15 mV
High Point : 339.99 mV
Plot Scale: 321.8 mV



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Chromatogram

Sample Name : ccv,02ws1229,mo
FileName : G:\GC11\CHA\221A004.RAW
Method : ATEH202.MTH
Start Time : 0.01 min
Scale Factor: 0.0

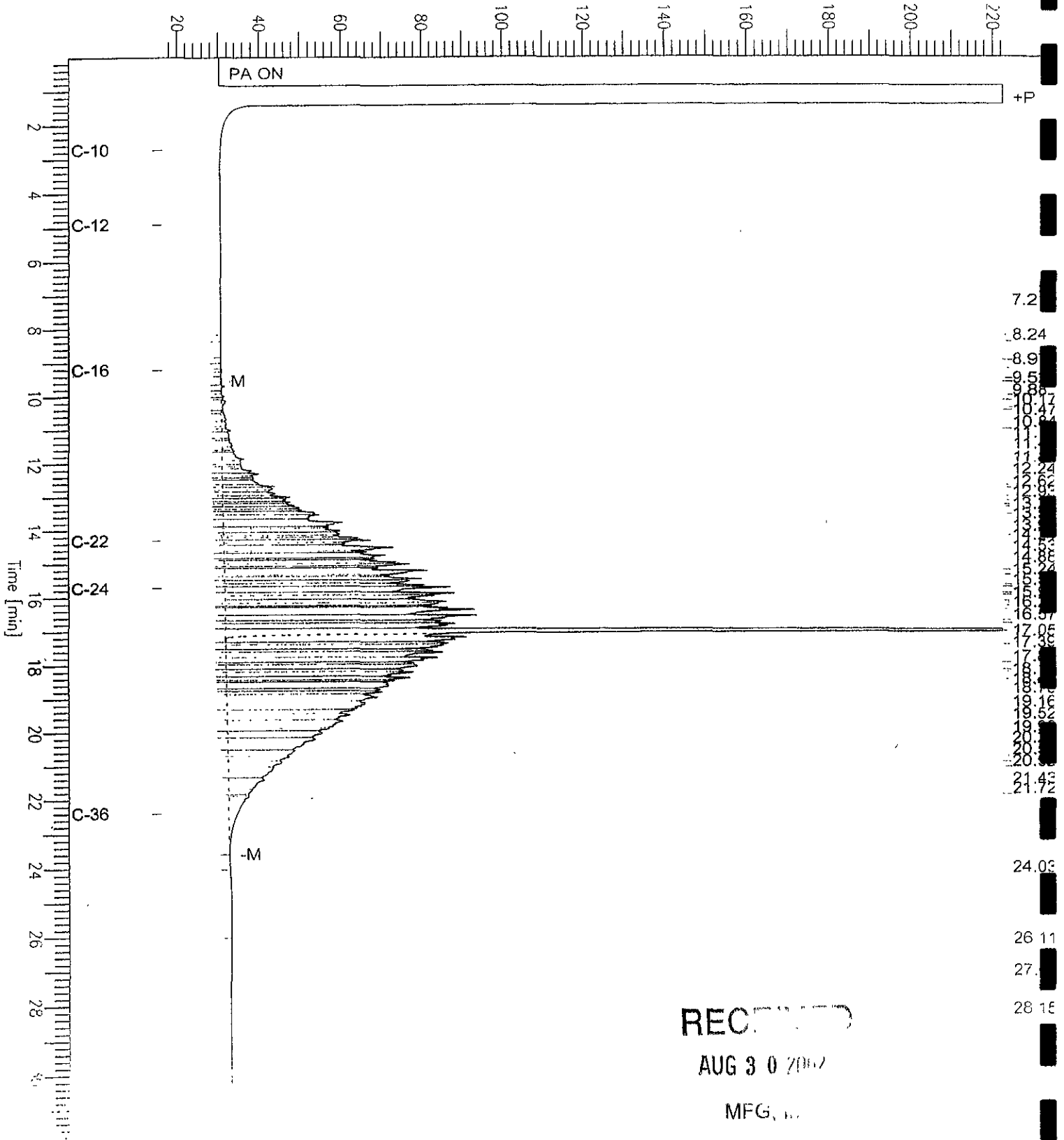
End Time : 31.91 min
Plot Offset: 17 mV

Sample #: 500mg/L
Date : 8/9/02 02:25 PM
Time of Injection: 8/9/02 01:25 PM
Low Point : 16.61 mV
High Point : 222.47 mV
Plot Scale: 205.9 mV

Page 1 of 1

Motor Oil

Response [mV]



Total Extractable Hydrocarbons

Lab #:	160075	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8015B(M)
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC186451	Batch#:	74372
Matrix:	Water	Prepared:	08/09/02
Units:	ug/L	Analyzed:	08/09/02

Analyte	Spiked	Result	REC	Limits
Diesel C10-C24	2,500	2,422	97	37-120

Surrogate	REC	Limits
Hexacosane	109	39-137

REC-11117
 AUG 30 2002
 MFG, Inc.

Total Extractable Hydrocarbons			
Lab #:	160075	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8015B(M)
Field ID:	ZZZZZZZZZZ	Batch#:	74372
MSS Lab ID:	160071-002	Sampled:	08/06/02
Matrix:	Water	Received:	08/06/02
Units:	ug/L	Prepared:	08/09/02
Diln Fac:	1.000	Analyzed:	08/09/02

Type: MS Lab ID: QC186452

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<21.00	2,500	2,376	95	44-131
Surrogate	%REC		Limits		
Hexacosane	113	39-137			

Type: MSD Lab ID: QC186453

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,395	96	44-131	1	26
Surrogate	%REC		Limits			
Hexacosane	111	39-137				

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MFG, Inc.

Polychlorinated Biphenyls (PCBs)			
Lab #:	160075	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8082
Field ID:	W.O.2-G.W.	Batch#:	74370
Matrix:	Water	Sampled:	08/07/02
Units:	ug/L	Received:	08/07/02
Diln Fac:	1.000	Prepared:	08/09/02

Type: SAMPLE Analyzed: 08/17/02
 Lab ID: 160075-001 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.49
Aroclor-1221	ND	0.98
Aroclor-1232	ND	0.49
Aroclor-1242	ND	0.49
Aroclor-1248	ND	0.49
Aroclor-1254	ND	0.49
Aroclor-1260	ND	0.49

Surrogate	%REC	Limits
TCMX	56	37-140
Decachlorobiphenyl	40	17-150

Type: BLANK Analyzed: 08/12/02
 Lab ID: QC186444 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.40
Aroclor-1221	ND	0.80
Aroclor-1232	ND	0.40
Aroclor-1242	ND	0.40
Aroclor-1248	ND	0.40
Aroclor-1254	ND	0.40
Aroclor-1260	ND	0.40

Surrogate	%REC	Limits
TCMX	94	37-140
Decachlorobiphenyl	84	17-150

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

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MFG, Inc.

Polychlorinated Biphenyls (PCBs)			
Lab #:	160075	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3520C
Project#:	030013	Analysis:	EPA 8082
Matrix:	Water	Batch#:	74370
Units:	ug/L	Prepared:	08/09/02
Diln Fac:	1.000	Analyzed:	08/12/02

Type: BS Cleanup Method: EPA 3665A
 Lab ID: QC186445

Analyte	Spiked	Result	REC	Limits
Aroclor-1254	5.000	5.519	110	60-123

Surrogate	REC	Limits
TCMX	86	37-140
Decachlorobiphenyl	93	17-150

Type: BSD Cleanup Method: EPA 3665A
 Lab ID: QC186446

Analyte	Spiked	Result	REC	Limits	RPD	Lim
Aroclor-1254	5.000	5.838	117	60-123	6	25

Surrogate	REC	Limits
TCMX	94	37-140
Decachlorobiphenyl	86	17-150

REC-1110

AUG 30 2002

MFG, Inc.

APPENDIX G

**Laboratory Reports and Chain-of-Custody Records
for Stockpile Characterization Soil Samples**



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

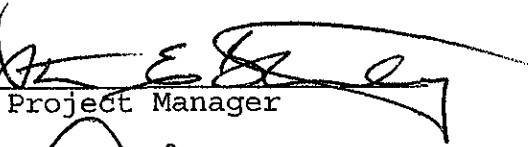
Prepared for:

McCulley, Frick & Gilman, Inc.
180 Howard
Suite 200
San Francisco, CA 94105

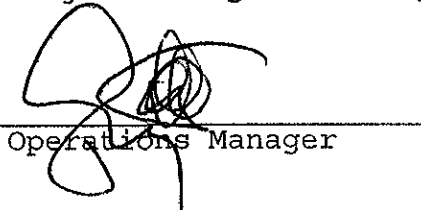
Date: 13-AUG-02
Lab Job Number: 159736
Project ID: 030013
Location: N/A

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

Reviewed by:


Project Manager

Reviewed by:


Operations Manager

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NELAP # 01107CA

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AUG 15 2002

MFG, Inc.

WS



Curtis & Tompkins, Ltd.

Laboratory Number: 159736
Client: MFG, Inc.
Project Name: Avis-Oakland

Receipt Date: 07/17/02

CASE NARRATIVE

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

Total Volatile Hydrocarbons: No analytical problems were encountered.

Total Extractable Hydrocarbons: The concentration of diesel range organics in the spiked sample rendered the spike amount insignificant. The matrix spike samples were therefore not analyzed. The associated laboratory control sample (LCS) recovery was acceptable, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

Volatile Organic Compounds: No analytical problems were encountered.

Semi-Volatile Organic Compounds: No analytical problems were encountered.

PCBs: The decachlorobiphenyl surrogate recoveries for the matrix spikes were outside acceptance limits. The associated TCMX surrogate recoveries were acceptable, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

Metals: The matrix spike recoveries for nickel were not meaningful. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The matrix spike recoveries for zinc and chromium were outside acceptance limits. The associated blank spike recoveries were acceptable for all target elements, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

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MFG, Inc.

AUG 15 2002

139730

MFG, Inc.

MFG, Inc.

CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. 44910

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1165 G Street, Suite E
Arcata, CA 95521-5817
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Tel: (303) 447-1823
Fax: (303) 447-1836

Irvine Office
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Suite 500
Irvine, CA 92614-5850
Tel: (949) 253-2951
Fax: (949) 253-2954

Osburn Office
P.O. Box 30
Wallace, ID
83873-0030
Tel: (208) 556-6811
Fax: (208) 556-7271

San Francisco Office
180 Howard Street, Suite 200
San Francisco, CA 94105-1617
Phone: (415) 495-7110 - Fax: (415) 495-7107

Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040

PROJECT NO: 030013

PROJECT NAME: Avis - Oakland

PAGE: 1 OF 1

SAMPLER (Signature):

PROJECT MANAGER: Ken Johnson

DATE: 7/17/02

METHOD OF SHIPMENT: MFG Delivered

CARRIER/WAYBILL NO: NA

DESTINATION: Curtis & Tompkins

SAMPLES										ANALYSIS REQUEST										
Field Sample Identification	Sample			Preservation				Containers			Constituents/Method			Handling		Remarks				
	DATE	TIME	Matrix*	HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	Composite	THg/As/Vols	TH d, n, o, l	vols/SVOCs		PCBs/PAHs	HOLD	RUSH	STANDARD
SS-1 A, B, C, D	7/17/02	2:00	SO				X		6"	SS	4	X	X						X	Composite A, B, C, D
SS-1 E, F, G, H	7/17/02	2:30	SO				X		6"	SS	4	X	X						X	Composite E, F, G, H
SS-2 A, B, C, D	7/17/02	3:00	SO				X		6"	SS	4	X		X	X	X			X	Composite A, B, C, D
										TOTAL NUMBER OF CONTAINERS 12										
										LABORATORY COMMENTS/CONDITION OF SAMPLES Cooler Temp:										

RELINQUISHED BY:

RECEIVED BY:

SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	SIGNATURE	PRINTED NAME	COMPANY
	Christopher Spill	MFL-SF	7/17/02	1735		Anna Pajares	C+T Labs
							LABORATORY

*KEY Matrix: AQ - aqueous RA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

Rec'd in Cooler w/ice.



Total Volatile Hydrocarbons			
Lab #:	159736	Prep:	EPA 5030B
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	8015B(M)
Project#:	030013		
Matrix:	Soil	Batch#:	73854
Units:	mg/Kg	Sampled:	07/17/02
Basis:	as received	Received:	07/17/02
Diln Fac:	1.000	Analyzed:	07/18/02

Field ID: SS-1 A,B,C,D Lab ID: 159736-001
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	5.9 H Y	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	78	58-144
Bromofluorobenzene (FID)	101	60-146

Field ID: SS-1 E,F,G,H Lab ID: 159736-002
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	58-144
Bromofluorobenzene (FID)	100	60-146

Type: BLANK Lab ID: QC184519

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	58-144
Bromofluorobenzene (FID)	98	60-146

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits fuel pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
Page 1 of 1

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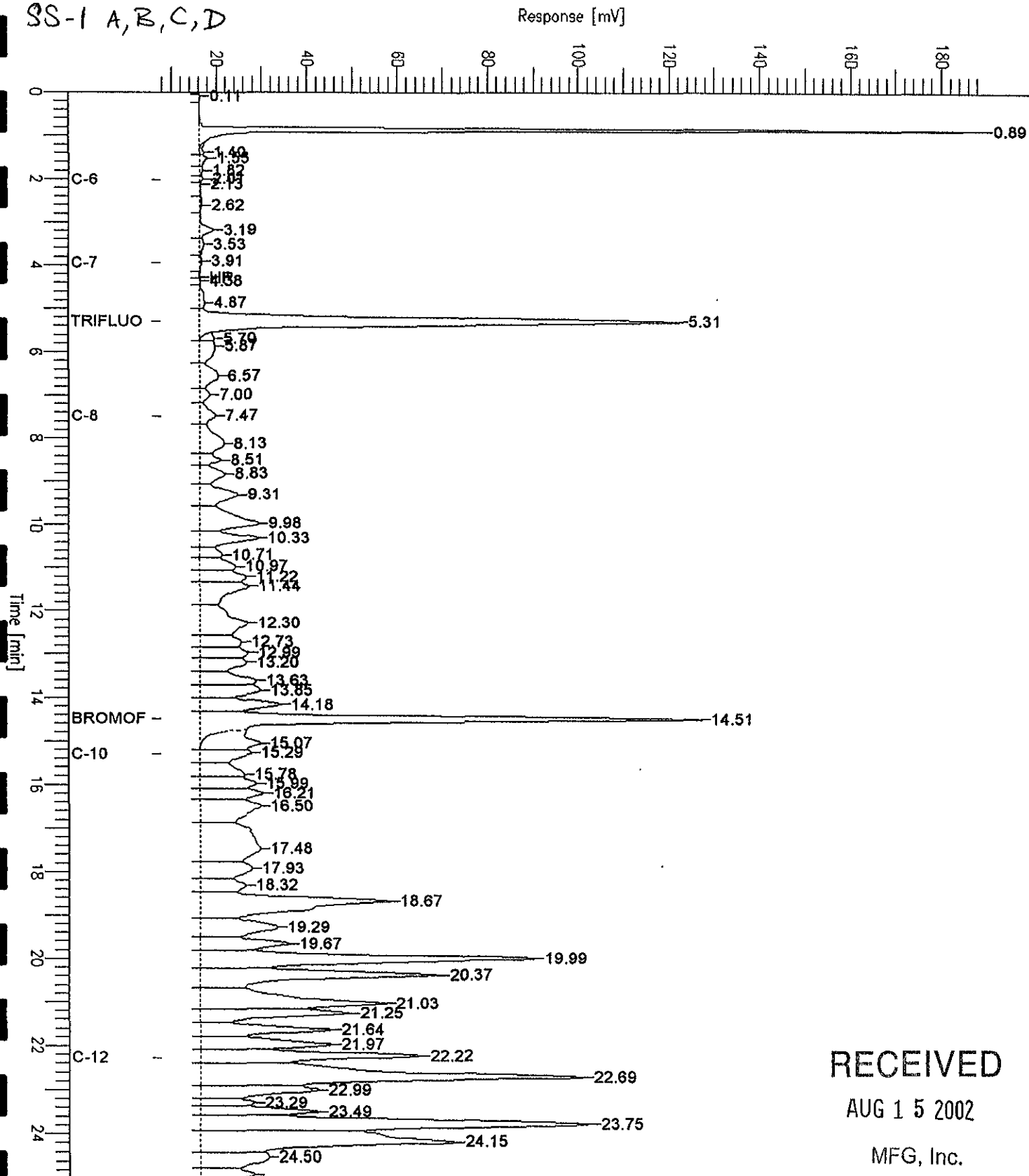
Chromatogram

Sample Name : 159736-001,73854
FileName : G:\GC05\DATA\199G010.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0

End Time : 25.00 min
Plot Offset: 8 mV

Sample #: comp
Date : 7/19/02 09:25 AM
Time of Injection: 7/18/02 09:27 PM
Low Point : 7.57 mV
Plot Scale: 181.9 mV
Page 1 of 1
High Point : 189.43 mV

SS-1 A,B,C,D



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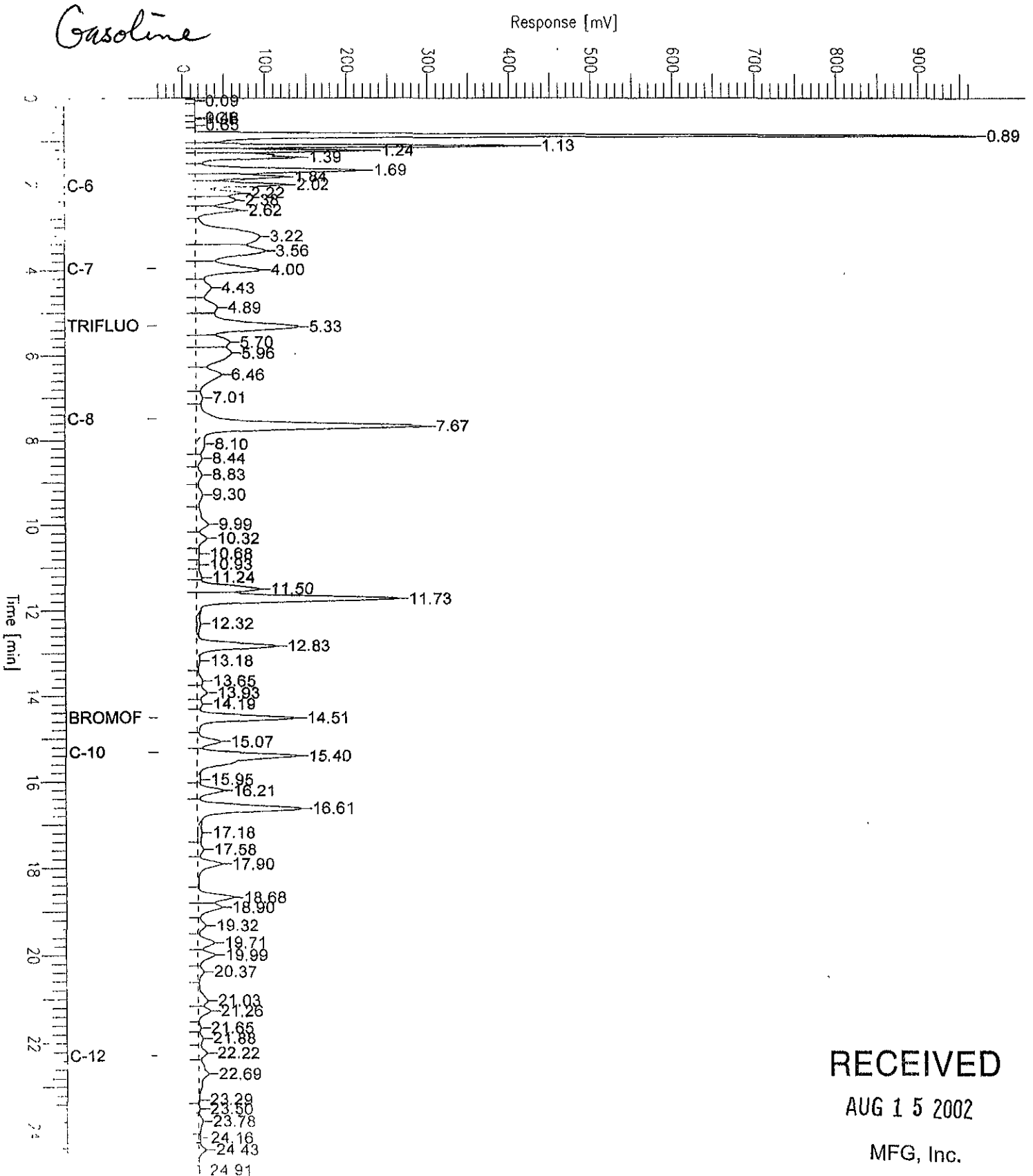
MFG, Inc.

Chromatogram

Sample Name : CCV/LCS, QC184520, 73854, 02WS1119, 5/5000
FileName : G:\GC05\DATA\199G003.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor : 1.0 Plot Offset : -32 mV

Sample # :
Date : 7/18/02 05:56 PM
Time of Injection : 7/18/02 05:31 PM
Low Point : -31.99 mV High Point : 969.25 mV
Plot Scale : 1001.2 mV

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Total Volatile Hydrocarbons

Lab #:	159736	Prep:	EPA 5030B
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	8015B (M)
Project#:	030013		
Type:	LCS	Basis:	as received
Lab ID:	QC184520	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73854
Units:	mg/Kg	Analyzed:	07/18/02

Analyte	Spiked	Result	%REC	Limite
Gasoline C7-C12	10.00	9.535	95	78-120

Surrogate	%REC	Limite
Trifluorotoluene (FID)	115	58-144
Bromofluorobenzene (FID)	96	60-146

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Total Volatile Hydrocarbons			
Lab #:	159736	Prep:	EPA 5030B
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	8015B (M)
Project#:	030013		
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	159730-002	Batch#:	73854
Matrix:	Soil	Sampled:	07/16/02
Units:	mg/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/18/02

Type: MS Lab ID: QC184521

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.09694	10.31	9.500	91	44-133

Surrogate	%REC	Limits
Trifluorotoluene (FID)	121	58-144
Bromofluorobenzene (FID)	105	60-146

Type: MSD Lab ID: QC184522

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.524	8.846	92	44-133	1	31

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	58-144
Bromofluorobenzene (FID)	93	60-146

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Total Extractable Hydrocarbons

Lab #:	159736	Prep:	SHAKER TABLE
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8015B(M)
Project#:	030013		
Field ID:	SS-2 A,B,C,D	Batch#:	73930
Matrix:	Soil	Sampled:	07/17/02
Units:	mg/Kg	Received:	07/17/02
Basis:	as received	Prepared:	07/22/02
Diln Fac:	1.000		

Type: SAMPLE Analyzed: 07/23/02
Lab ID: 159736-003

Analyte	Result	RI
Diesel C10-C24	78 H	1.0
Motor Oil C24-C36	87 L	5.0

Surrogate	SRRC	Limits
Hexacosane	81	48-137

Type: BLANK Analyzed: 07/24/02
Lab ID: QC184804

Analyte	Result	RI
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	SRRC	Limits
Hexacosane	104	48-137

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
ND= Not Detected
RL= Reporting Limit
Page 1 of 1

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Chromatogram

Sample Name : 159736-003,73930
File Name : G:\GC17\CHA\203A042.RAW
Method : ATEH204.MTH
Start Time : 0.01 min
Scale Factor : 0.0

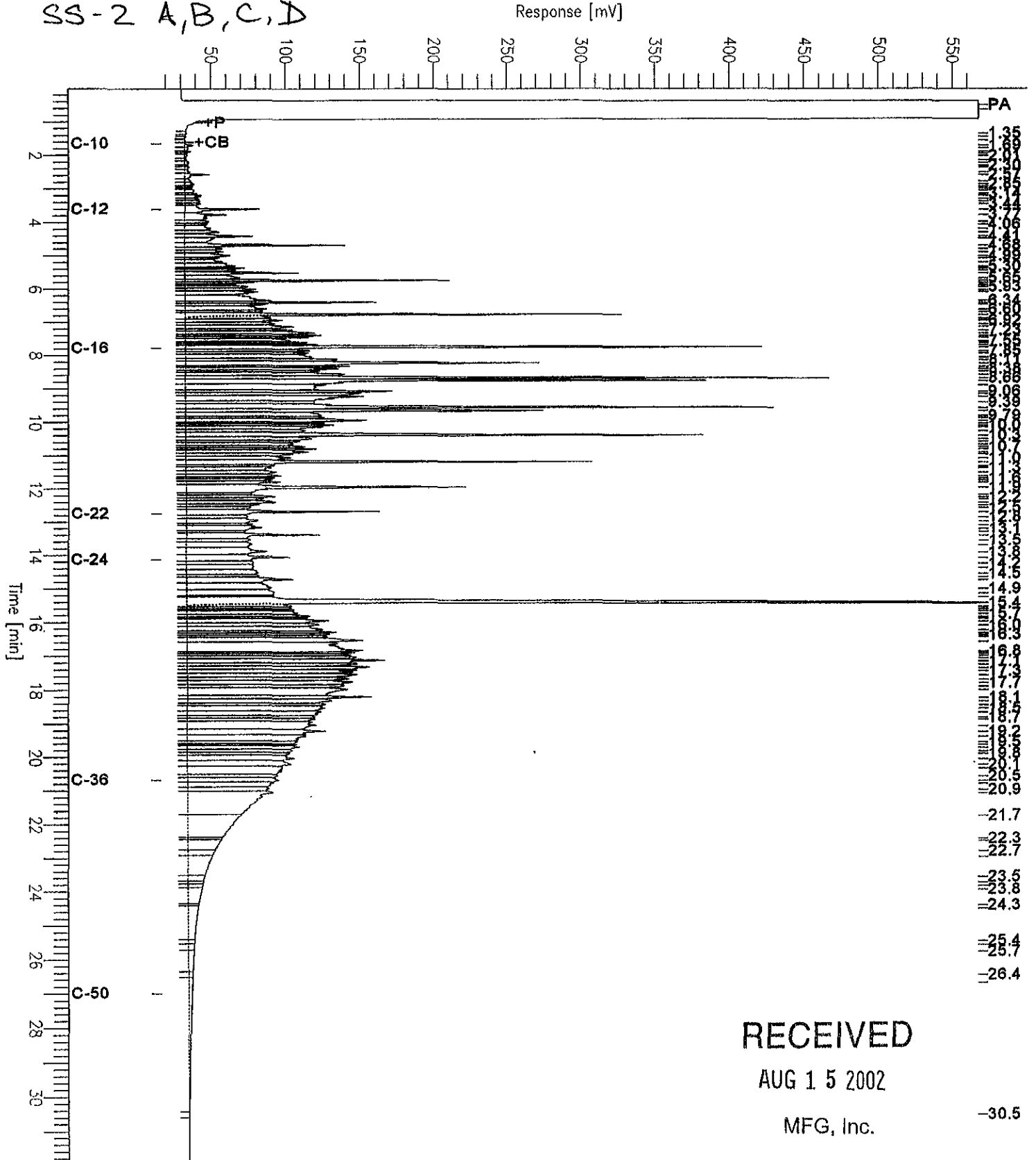
End Time : 31.91 min
Plot Offset : 16 mV

Sample #: 73930
Date : 07/24/2002 09:59 AM
Time of Injection: 07/23/2002 07:17 PM
Low Point : 16.42 mV
Plot Scale: 551.6 mV

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High Point : 568.04 mV

SS-2 A,B,C,D



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-30.5

Chromatogram

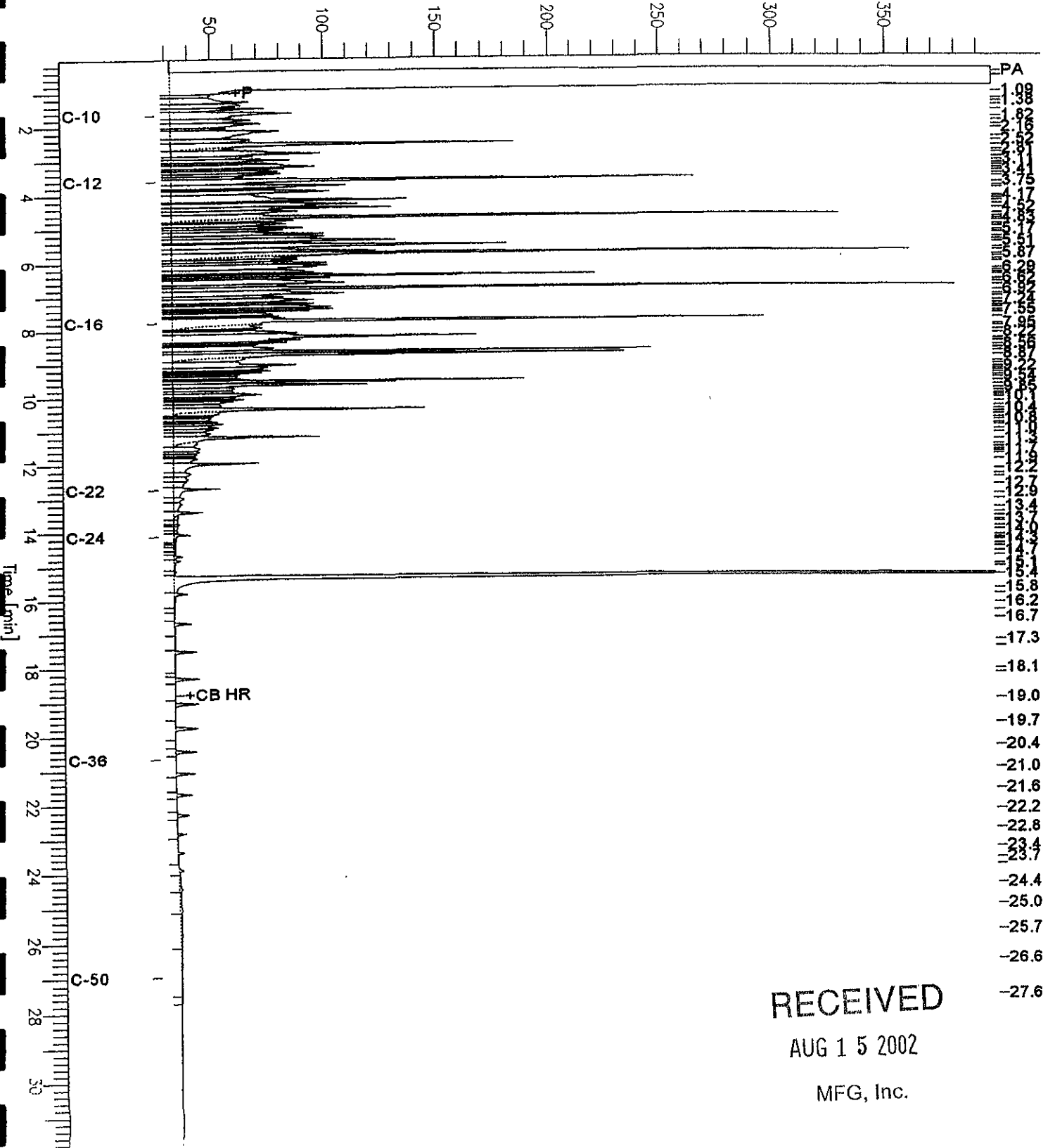
Sample Name : ccv,02ws0995,ds1
FileName : G:\GC17\CHA\203A002.RAW
Method : ATEH189.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 31.91 min
Plot Offset: 26 mV

Sample #: 500mg/L
Date : 07/22/2002 11:39 AM
Time of Injection: 07/22/2002 10:20 AM
Low Point : 25.88 mV
Plot Scale: 370.9 mV
High Point : 396.79 mV

Diesel

Response [mV]



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Chromatogram

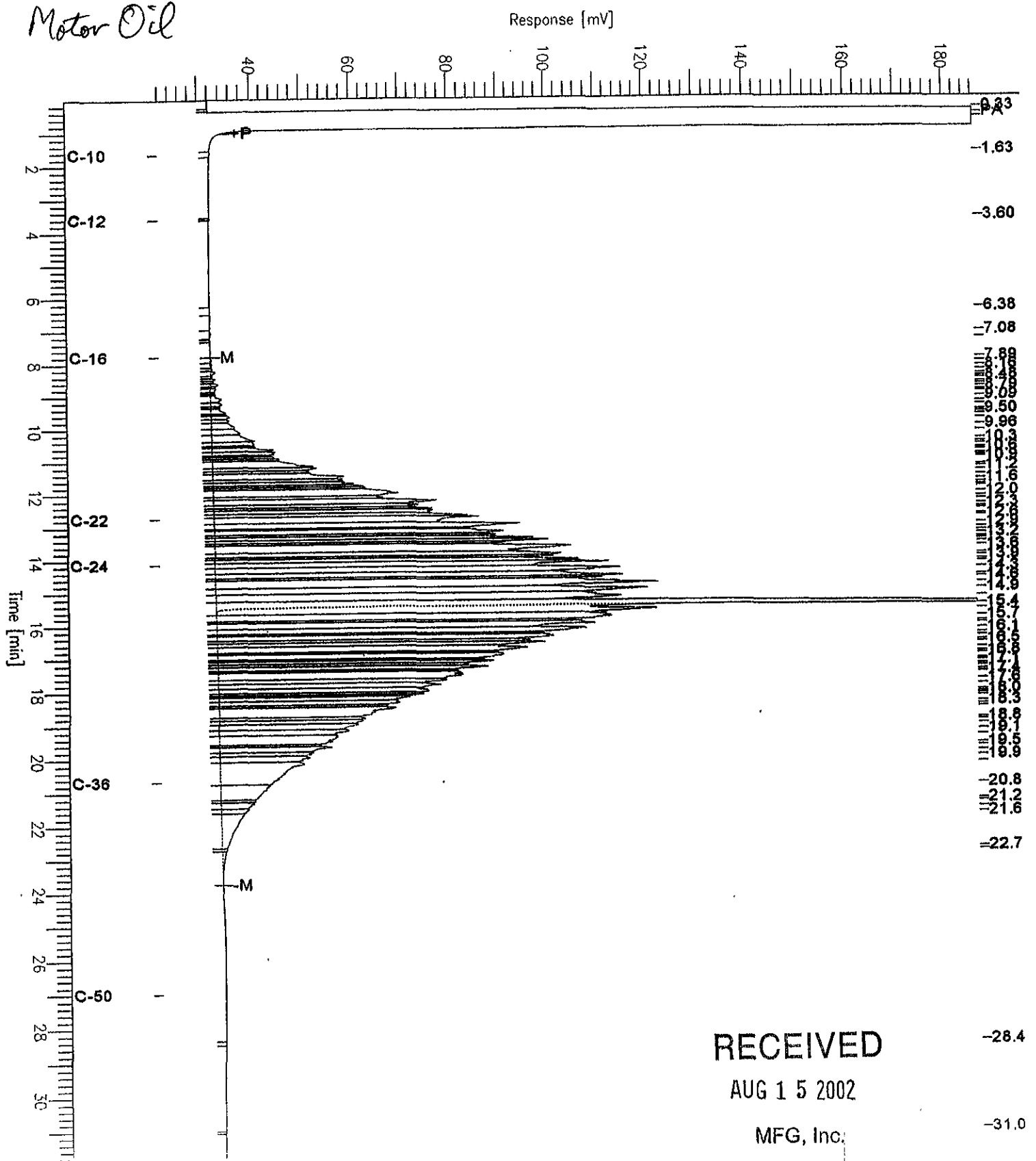
Page 1 of 1

Sample Name : ccv_02ws1044.mo
FileName : G:\GC17\CHA\203A003.RAW
Method : ATEH189.MTH
Start Time : 0.01 min
Scale Factor : 0.0

End Time : 31.91 min
Plot Offset: 22 mV

Sample #: 500mg/L
Date : 07/22/2002 11:37 AM
Time of Injection: 07/22/2002 11:01 AM
Low Point : 21.91 mV
Plot Scale: 164.4 mV
High Point : 186.31 mV

Motor Oil





Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	159736	Prep:	SHAKER TABLE
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8015B (M)
Project#:	030013		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC184805	Batch#:	73930
Matrix:	Soil	Prepared:	07/22/02
Units:	mg/Kg	Analyzed:	07/23/02
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.74	50.44	101	67-121

Surrogate	%REC	Limits
Hexacosane	94	48-137

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Purgeable Organics by GC/MS

Lab #:	159736	Prep:	EPA 5030B
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8260B
Project#:	030013		
Field ID:	SS-1 A,B,C,D	Diln Fac:	0.9259
Lab ID:	159736-001	Batch#:	73938
Matrix:	Soil	Sampled:	07/17/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/24/02

Analyte	Result	RL
Freon 12	ND	9.3
Chloromethane	ND	9.3
Vinyl Chloride	ND	9.3
Bromomethane	ND	9.3
Chloroethane	ND	9.3
Trichlorofluoromethane	ND	4.6
Acetone	ND	19
Freon 113	ND	4.6
1,1-Dichloroethene	ND	4.6
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.6
MTBE	9.9	4.6
trans-1,2-Dichloroethene	ND	4.6
Vinyl Acetate	ND	46
1,1-Dichloroethane	ND	4.6
2-Butanone	ND	9.3
cis-1,2-Dichloroethene	ND	4.6
2,2-Dichloropropane	ND	4.6
Chloroform	ND	4.6
Bromochloromethane	ND	4.6
1,1,1-Trichloroethane	ND	4.6
1,1-Dichloropropene	ND	4.6
Carbon Tetrachloride	ND	4.6
1,2-Dichloroethane	ND	4.6
Benzene	ND	4.6
Trichloroethene	ND	4.6
1,2-Dichloropropane	ND	4.6
Bromodichloromethane	ND	4.6
Dibromomethane	ND	4.6
4-Methyl-2-Pentanone	ND	9.3
cis-1,3-Dichloropropene	ND	4.6
Toluene	ND	4.6
trans-1,3-Dichloropropene	ND	4.6
1,1,2-Trichloroethane	ND	4.6
2-Hexanone	ND	9.3
1,3-Dichloropropane	ND	4.6
Tetrachloroethene	ND	4.6

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

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MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159736	Prep:	EPA 5030B
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8260B
Project#:	030013		
Field ID:	SS-1 A,B,C,D	Diln Fac:	0.9259
Lab ID:	159736-001	Batch#:	73938
Matrix:	Soil	Sampled:	07/17/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/24/02

Analyte	Result	RL
Dibromochloromethane	ND	4.6
1,2-Dibromoethane	ND	4.6
Chlorobenzene	ND	4.6
1,1,1,2-Tetrachloroethane	ND	4.6
Ethylbenzene	ND	4.6
m,p-Xylenes	ND	4.6
o-Xylene	ND	4.6
Styrene	ND	4.6
Bromoform	ND	4.6
Isopropylbenzene	ND	4.6
1,1,2,2-Tetrachloroethane	ND	4.6
1,2,3-Trichloropropane	ND	4.6
Propylbenzene	ND	4.6
Bromobenzene	ND	4.6
1,3,5-Trimethylbenzene	ND	4.6
2-Chlorotoluene	ND	4.6
4-Chlorotoluene	ND	4.6
tert-Butylbenzene	ND	4.6
1,2,4-Trimethylbenzene	ND	4.6
sec-Butylbenzene	ND	4.6
para-Isopropyl Toluene	ND	4.6
1,3-Dichlorobenzene	ND	4.6
1,4-Dichlorobenzene	ND	4.6
n-Butylbenzene	6.6	4.6
1,2-Dichlorobenzene	ND	4.6
1,2-Dibromo-3-Chloropropane	ND	4.6
1,2,4-Trichlorobenzene	ND	4.6
Hexachlorobutadiene	ND	4.6
Naphthalene	ND	4.6
1,2,3-Trichlorobenzene	ND	4.6

Surrogate	%RBC	Limits
Dibromofluoromethane	105	74-124
1,2-Dichloroethane-d4	103	75-128
Toluene-d8	101	80-120
Bromofluorobenzene	111	75-127

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159736	Prep:	EPA 5030B
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8260B
Project#:	030013		
Field ID:	SS-1 E,F,G,H	Diln Fac:	1.020
Lab ID:	159736-002	Batch#:	73938
Matrix:	Soil	Sampled:	07/17/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/24/02

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.1
Acetone	ND	20
Freon 113	ND	5.1
1,1-Dichloroethene	ND	5.1
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.1
MTBE	11	5.1
trans-1,2-Dichloroethene	ND	5.1
Vinyl Acetate	ND	51
1,1-Dichloroethane	ND	5.1
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.1
2,2-Dichloropropane	ND	5.1
Chloroform	ND	5.1
Bromochloromethane	ND	5.1
1,1,1-Trichloroethane	ND	5.1
1,1-Dichloropropene	ND	5.1
Carbon Tetrachloride	ND	5.1
1,2-Dichloroethane	ND	5.1
Benzene	ND	5.1
Trichloroethene	ND	5.1
1,2-Dichloropropane	ND	5.1
Bromodichloromethane	ND	5.1
Dibromomethane	ND	5.1
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.1
Toluene	ND	5.1
trans-1,3-Dichloropropene	ND	5.1
1,1,2-Trichloroethane	ND	5.1
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.1
Tetrachloroethene	ND	5.1

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159736	Prep:	EPA 5030B
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8260B
Project#:	030013		
Field ID:	SS-1 E,F,G,H	Diln Fac:	1.020
Lab ID:	159736-002	Batch#:	73938
Matrix:	Soil	Sampled:	07/17/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/24/02

Analyte	Result	RL
Dibromochloromethane	ND	5.1
1,2-Dibromoethane	ND	5.1
Chlorobenzene	ND	5.1
1,1,1,2-Tetrachloroethane	ND	5.1
Ethylbenzene	ND	5.1
m,p-Xylenes	ND	5.1
o-Xylene	ND	5.1
Styrene	ND	5.1
Bromoform	ND	5.1
Isopropylbenzene	ND	5.1
1,1,2,2-Tetrachloroethane	ND	5.1
1,2,3-Trichloropropane	ND	5.1
Propylbenzene	ND	5.1
Bromobenzene	ND	5.1
1,3,5-Trimethylbenzene	ND	5.1
2-Chlorotoluene	ND	5.1
4-Chlorotoluene	ND	5.1
tert-Butylbenzene	ND	5.1
1,2,4-Trimethylbenzene	ND	5.1
sec-Butylbenzene	ND	5.1
para-Isopropyl Toluene	ND	5.1
1,3-Dichlorobenzene	ND	5.1
1,4-Dichlorobenzene	ND	5.1
n-Butylbenzene	ND	5.1
1,2-Dichlorobenzene	ND	5.1
1,2-Dibromo-3-Chloropropane	ND	5.1
1,2,4-Trichlorobenzene	ND	5.1
Hexachlorobutadiene	ND	5.1
Naphthalene	ND	5.1
1,2,3-Trichlorobenzene	ND	5.1

Surrogate	%REC	Limit
Dibromofluoromethane	94	74-124
1,2-Dichloroethane-d4	92	75-128
Toluene-d8	97	80-120
Bromofluorobenzene	109	75-127

ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

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Purgeable Organics by GC/MS

Lab #:	159736	Prep:	EPA 5030B
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8260B
Project#:	030013		
Field ID:	SS-2 A,B,C,D	Diln Fac:	0.9804
Lab ID:	159736-003	Batch#:	73887
Matrix:	Soil	Sampled:	07/17/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/19/02

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

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

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Purgeable Organics by GC/MS

Lab #:	159736	Prep:	EPA 5030B
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8260B
Project#:	030013		
Field ID:	SS-2 A,B,C,D	Diln Fac:	0.9804
Lab ID:	159736-003	Batch#:	73887
Matrix:	Soil	Sampled:	07/17/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Analyzed:	07/19/02

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

Surrogate	%REC	Limits
Dibromofluoromethane	104	74-124
1,2-Dichloroethane-d4	99	75-128
Toluene-d8	100	80-120
Bromofluorobenzene	109	75-127

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.



Purgeable Organics by GC/MS

Lab #:	159736	Prep:	EPA 5030B
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8260B
Project#:	030013		
Type:	BLANK	Basis:	as received
Lab ID:	QC184632	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73887
Units:	ug/Kg	Analyzed:	07/19/02

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

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159736	Prep:	EPA 5030B
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8260B
Project#:	030013		
Type:	BLANK	Basis:	as received
Lab ID:	QC184632	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73887
Units:	ug/Kg	Analyzed:	07/19/02

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

Surrogate	#REC	Limits
Dibromofluoromethane	105	74-124
1,2-Dichloroethane-d4	98	75-128
Toluene-d8	96	80-120
Bromofluorobenzene	108	75-127

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.



Purgeable Organics by GC/MS

Lab #: 159736	Prep: EPA 5030B
Client: McCulley, Frick & Gilman, Inc.	Analysis: EPA 8260B
Project#: 030013	
Type: BLANK	Basis: as received
Lab ID: QC184834	Diln Fac: 1.000
Matrix: Soil	Batch#: 73938
Units: ug/Kg	Analyzed: 07/23/02

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

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.



Purgeable Organics by GC/MS

Lab #: 159736	Prep: EPA 5030B
Client: McCulley, Frick & Gilman, Inc.	Analysis: EPA 8260B
Project#: 030013	
Type: BLANK	Basis: as received
Lab ID: QC184834	Diln Fac: 1.000
Matrix: Soil	Batch#: 73938
Units: ug/Kg	Analyzed: 07/23/02

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

Surrogate	%REC	Limite
Dibromofluoromethane	105	74-124
1,2-Dichloroethane-d4	101	75-128
Toluene-d8	99	80-120
Bromofluorobenzene	111	75-127

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159736	Prep:	EPA 5030B
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8260B
Project#:	030013		
Type:	LCS	Basis:	as received
Lab ID:	QC184631	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73887
Units:	ug/Kg	Analyzed:	07/19/02

Analyte	Spiked	Result	REC	Limits
1,1-Dichloroethene	50.00	51.41	103	70-131
Benzene	50.00	45.68	91	77-120
Trichloroethene	50.00	51.94	104	79-120
Toluene	50.00	42.73	85	80-120
Chlorobenzene	50.00	44.51	89	80-120

Surrogate	REC	Limits
Dibromofluoromethane	106	74-124
1,2-Dichloroethane-d4	95	75-128
Toluene-d8	94	80-120
Bromofluorobenzene	104	75-127

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Purgeable Organics by GC/MS			
Lab #:	159736	Prep:	EPA 5030B
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8260B
Project#:	030013		
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9615
MSS Lab ID:	159770-002	Batch#:	73887
Matrix:	Soil	Sampled:	07/18/02
Units:	ug/Kg	Received:	07/18/02
Basis:	as received	Analyzed:	07/20/02

Type: MS Lab ID: QC184641

Analyte	MSS Result	Spiked	Result	%REC	Limit#
1,1-Dichloroethene	<0.6400	48.08	40.29	84	57-134
Benzene	<0.1200	48.08	34.05	71	55-125
Trichloroethene	0.6133	48.08	37.58	77	37-133
Toluene	<0.2800	48.08	32.46	68	48-131
Chlorobenzene	<0.1400	48.08	29.70	62	42-128

Surrogate	%REC	Limit#
Dibromofluoromethane	99	74-124
1,2-Dichloroethane-d4	87	75-128
Toluene-d8	96	80-120
Bromofluorobenzene	99	75-127

Type: MSD Lab ID: QC184642

Analyte	Spiked	Result	%REC	Limit#	RPD	Lim
1,1-Dichloroethene	48.08	40.45	84	57-134	0	20
Benzene	48.08	36.66	76	55-125	7	20
Trichloroethene	48.08	41.01	84	37-133	9	21
Toluene	48.08	35.83	75	48-131	10	20
Chlorobenzene	48.08	34.71	72	42-128	16	23

Surrogate	%REC	Limit#
Dibromofluoromethane	94	74-124
1,2-Dichloroethane-d4	82	75-128
Toluene-d8	94	80-120
Bromofluorobenzene	101	75-127

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MFG, Inc.



Purgeable Organics by GC/MS

Lab #:	159736	Prep:	EPA 5030B
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8260B
Project#:	030013		
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9615
MSS Lab ID:	159780-004	Batch#:	73938
Matrix:	Soil	Sampled:	07/18/02
Units:	ug/Kg	Received:	07/19/02
Basis:	as received	Analyzed:	07/24/02

Type: MS Lab ID: QC184910

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.6400	48.08	39.31	82	57-134
Benzene	<0.1200	48.08	38.49	80	55-125
Trichloroethene	<0.2100	48.08	43.31	90	37-133
Toluene	<0.2800	48.08	38.64	80	48-131
Chlorobenzene	<0.1400	48.08	35.86	75	42-128

Surrogate	%REC	Limits
Dibromofluoromethane	95	74-124
1,2-Dichloroethane-d4	89	75-128
Toluene-d8	98	80-120
Bromofluorobenzene	105	75-127

Type: MSD Lab ID: QC184911

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	48.08	38.96	81	57-134	1	20
Benzene	48.08	37.31	78	55-125	3	20
Trichloroethene	48.08	41.16	86	37-133	5	21
Toluene	48.08	38.09	79	48-131	1	20
Chlorobenzene	48.08	35.41	74	42-128	1	23

Surrogate	%REC	Limits
Dibromofluoromethane	94	74-124
1,2-Dichloroethane-d4	87	75-128
Toluene-d8	97	80-120
Bromofluorobenzene	102	75-127

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MFG, Inc.



Semivolatile Organics by GC/MS

Lab #: 159736	Prep: EPA 3520C
Client: McCulley, Frick & Gilman, Inc.	Analysis: EPA 8270C
Project#: 030013	
Field ID: SS-2 A,B,C,D	Batch#: 73972
Lab ID: 159736-003	Sampled: 07/17/02
Matrix: Soil	Received: 07/17/02
Units: ug/Kg	Prepared: 07/24/02
Basis: as received	Analyzed: 08/06/02
Diln Fac: 1.000	

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl) ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	670
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy) methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	1,700
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	670
Acenaphthene	ND	330
2,4-Dinitrophenol	ND	1,700
4-Nitrophenol	ND	670
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	330
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	670
4,6-Dinitro-2-methylphenol	ND	1,700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	670
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330

ND= Not Detected
 RL= Reporting Limit
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Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #: 159736 Prep: EPA 3520C
Client: McCulley, Frick & Gilman, Inc. Analysis: EPA 8270C
Project#: 030013
Field ID: SS-2 A,B,C,D Batch#: 73972
Lab ID: 159736-003 Sampled: 07/17/02
Matrix: Soil Received: 07/17/02
Units: ug/Kg Prepared: 07/24/02
Basis: as received Analyzed: 08/06/02
Diln Fac: 1.000

Analyte	Result	RL
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo (a) anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo (b) fluoranthene	ND	330
Benzo (k) fluoranthene	ND	330
Benzo (a) pyrene	ND	330
Indeno (1,2,3-cd) pyrene	ND	330
Dibenz (a,h) anthracene	ND	330
Benzo (g,h,i) perylene	ND	330

Surrogate	%REC	Limit
2-Fluorophenol	60	34-120
Phenol-d5	53	37-120
2,4,6-Tribromophenol	55	24-120
Nitrobenzene-d5	59	35-120
2-Fluorobiphenyl	60	38-121
Terphenyl-d14	56	32-127

ND= Not Detected
RL= Reporting Limit
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MFG, Inc.



Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS			
Lab #:	159736	Prep:	EPA 3520C
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8270C
Project#:	030013		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184963	Batch#:	73972
Matrix:	Soil	Prepared:	07/24/02
Units:	ug/Kg	Analyzed:	08/01/02
Basis:	as received		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl) ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	670
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	1,700
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	670
Acenaphthene	ND	330
2,4-Dinitrophenol	ND	1,700
4-Nitrophenol	ND	670
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	330
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	670
4,6-Dinitro-2-methylphenol	ND	1,700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	670
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.



Semivolatile Organics by GC/MS

Lab #:	159736	Prep:	EPA 3520C
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8270C
Project#:	030013		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184963	Batch#:	73972
Matrix:	Soil	Prepared:	07/24/02
Units:	ug/Kg	Analyzed:	08/01/02
Basis:	as received		

Analyte	Result	RI
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo (a) anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo (b) fluoranthene	ND	330
Benzo (k) fluoranthene	ND	330
Benzo (a) pyrene	ND	330
Indeno (1,2,3-cd) pyrene	ND	330
Dibenz (a,h) anthracene	ND	330
Benzo (g,h,i) perylene	ND	330

Surrogate	RFC	Limit
2-Fluorophenol	66	34-120
Phenol-d5	61	37-120
2,4,6-Tribromophenol	64	24-120
Nitrobenzene-d5	63	35-120
2-Fluorobiphenyl	71	38-121
Terphenyl-d14	65	32-127

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Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #: 159736	Prep: EPA 3520C
Client: McCulley, Frick & Gilman, Inc.	Analysis: EPA 8270C
Project#: 030013	
Type: LCS	Diln Fac: 1.000
Lab ID: QC184964	Batch#: 73972
Matrix: Soil	Prepared: 07/24/02
Units: ug/Kg	Analyzed: 08/01/02
Basis: as received	

Analyte	Spiked	Result	EREC	Limits
Phenol	3,365	2,087	62	35-120
2-Chlorophenol	3,365	2,182	65	35-120
1,4-Dichlorobenzene	1,682	1,038	62	34-120
N-Nitroso-di-n-propylamine	1,682	899.4	53	27-120
1,2,4-Trichlorobenzene	1,682	1,057	63	34-122
4-Chloro-3-methylphenol	3,365	2,407	72	38-120
Acenaphthene	1,682	907.9	54	40-120
4-Nitrophenol	3,365	1,700	51	24-120
2,4-Dinitrotoluene	1,682	903.9	54	36-120
Pentachlorophenol	3,365	2,073	62	24-120
Pyrene	1,682	950.7	57	34-120

Surrogate	EREC	Limits
2-Fluorophenol	66	34-120
Phenol-d5	65	37-120
2,4,6-Tribromophenol	62	24-120
Nitrobenzene-d5	66	35-120
2-Fluorobiphenyl	66	38-121
Terphenyl-d14	63	32-127

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MFG, Inc.

Semivolatile Organics by GC/MS

Lab #:	159736	Prep:	EPA 3520C
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8270C
Project#:	030013		
Field ID:	ZZZZZZZZZZ	Batch#:	73972
MSS Lab ID:	159770-002	Sampled:	07/18/02
Matrix:	Soil	Received:	07/18/02
Units:	ug/Kg	Prepared:	07/24/02
Basis:	as received	Analyzed:	07/30/02
Diln Fac:	1.000		

Type: MS Lab ID: QC184965

Analyte	MSE Result	Spiked	Result	%REC	Limita
Phenol	<46.00	3,321	1,790	54	37-120
2-Chlorophenol	<41.00	3,321	2,002	60	40-120
1,4-Dichlorobenzene	<26.00	1,661	904.7	54	35-120
N-Nitroso-di-n-propylamine	<30.00	1,661	883.7	53	31-120
1,2,4-Trichlorobenzene	<34.00	1,661	922.3	56	36-125
4-Chloro-3-methylphenol	<52.00	3,321	2,031	61	41-120
Acenaphthene	<26.00	1,661	824.9	50	42-120
4-Nitrophenol	<23.00	3,321	1,983	60	20-120
2,4-Dinitrotoluene	<27.00	1,661	921.7	56	38-120
Pentachlorophenol	<36.00	3,321	1,924	58	17-120
Pyrene	<42.00	1,661	896.0	54	22-140

Surrogate	%REC	Limita
2-Fluorophenol	61	34-120
Phenol-d5	60	37-120
2,4,6-Tribromophenol	61	24-120
Nitrobenzene-d5	65	35-120
2-Fluorobiphenyl	67	38-121
Terphenyl-d14	63	32-127

Type: MSD Lab ID: QC184966

Analyte	Spiked	Result	%REC	Limita	RPD	Lim
Phenol	3,323	1,773	53	37-120	1	24
2-Chlorophenol	3,323	1,867	56	40-120	7	25
1,4-Dichlorobenzene	1,662	847.7	51	35-120	7	41
N-Nitroso-di-n-propylamine	1,662	780.7	47	31-120	12	26
1,2,4-Trichlorobenzene	1,662	826.9	50	36-125	11	26
4-Chloro-3-methylphenol	3,323	1,913	58	41-120	6	24
Acenaphthene	1,662	806.4	49	42-120	2	32
4-Nitrophenol	3,323	1,836	55	20-120	8	31
2,4-Dinitrotoluene	1,662	845.9	51	38-120	9	28
Pentachlorophenol	3,323	1,743	52	17-120	10	47
Pyrene	1,662	876.9	53	22-140	2	34

Surrogate	%REC	Limita
2-Fluorophenol	58	34-120
Phenol-d5	57	37-120
2,4,6-Tribromophenol	56	24-120
Nitrobenzene-d5	60	35-120
2-Fluorobiphenyl	65	38-121
Terphenyl-d14	58	32-127

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Polychlorinated Biphenyls (PCBs)

Lab #:	159736	Prep:	EPA 3550
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8082
Project#:	030013		
Field ID:	SS-2 A,B,C,D	Batch#:	73913
Matrix:	Soil	Sampled:	07/17/02
Units:	ug/Kg	Received:	07/17/02
Basis:	as received	Prepared:	07/22/02
Diln Fac:	1.000		

Type: SAMPLE Analyzed: 07/28/02
 Lab ID: 159736-003 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	78	55-150
Decachlorobiphenyl	88	37-150

Type: BLANK Analyzed: 07/22/02
 Lab ID: QC184738 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	78	55-150
Decachlorobiphenyl	91	37-150

ND= Not Detected
 RL= Reporting Limit
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Polychlorinated Biphenyls (PCBs)

Lab #:	159736	Prep:	EPA 3550
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 8082
Project#:	030013		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC184739	Batch#:	73913
Matrix:	Soil	Prepared:	07/22/02
Units:	ug/Kg	Analyzed:	07/22/02
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1254	168.6	164.8	98	58-124

Surrogate	%REC	Limits
TCMX	86	55-150
Decachlorobiphenyl	84	37-150

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California LUFT Metals

Lab #:	159736	Prep:	EPA 3050
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 6010B
Project#:	030013		
Field ID:	SS-2 A,B,C,D	Batch#:	73950
Matrix:	Soil	Sampled:	07/17/02
Units:	mg/Kg	Received:	07/17/02
Basis:	as received	Prepared:	07/23/02
Diln Fac:	1.000	Analyzed:	07/25/02

Type: SAMPLE Lab ID: 159736-003

Analyte	Result	RL
Cadmium	1.2	0.22
Chromium	25	0.43
Lead	4.5	0.13
Nickel	38	0.87
Zinc	35	0.87

Type: BLANK Lab ID: QC184876

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.50
Lead	ND	0.15
Nickel	ND	1.0
Zinc	ND	1.0

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California LUFT Metals			
Lab #:	159736	Prep:	EPA 3050
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 6010B
Project#:	030013		
Matrix:	Soil	Batch#:	73950
Units:	mg/Kg	Prepared:	07/23/02
Basis:	as received	Analyzed:	07/25/02
Diln Fac:	1.000		

Type: BS Lab ID: QC184877

Analyte	Spiked	Result	%REC	Limit
Cadmium	10.00	8.650	87	69-120
Chromium	100.0	90.50	91	72-120
Lead	100.0	86.50	87	70-120
Nickel	25.00	22.25	89	72-120
Zinc	25.00	20.95	84	65-120

Type: BSD Lab ID: QC184878

Analyte	Spiked	Result	%REC	Limit	RPD	Lim
Cadmium	10.00	8.650	87	69-120	0	20
Chromium	100.0	90.50	91	72-120	0	20
Lead	100.0	87.00	87	70-120	1	20
Nickel	25.00	22.35	89	72-120	0	20
Zinc	25.00	20.95	84	65-120	0	20

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California LUFT Metals

Lab #:	159736	Prep:	EPA 3050
Client:	McCulley, Frick & Gilman, Inc.	Analysis:	EPA 6010B
Project#:	030013		
Field ID:	ZZZZZZZZZZ	Batch#:	73950
MSS Lab ID:	159770-002	Sampled:	07/18/02
Matrix:	Soil	Received:	07/18/02
Units:	mg/Kg	Prepared:	07/23/02
Basis:	as received	Analyzed:	07/25/02
Diln Fac:	1.000		

Type: MS Lab ID: QC184879

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	1.108	8.511	7.362	73	43-120
Chromium	112.1	85.11	190.2	92	62-145
Lead	6.009	85.11	65.53	70	46-128
Nickel	148.4	21.28	200.0	242 NM	62-141
Zinc	41.66	21.28	50.21	40 *	55-150

Type: MSD Lab ID: QC184880

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	8.130	7.480	78	43-120	6	26
Chromium	81.30	140.7	35 *	62-145	28	33
Lead	81.30	67.48	76	46-128	7	39
Nickel	20.33	130.1	-90 NM	62-141	42 *	37
Zinc	20.33	62.60	103	55-150	23	38

*= Value outside of QC limits; see narrative
 NM= Not Meaningful
 RPD= Relative Percent Difference
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ANALYTICAL REPORT

Prepared for:

McCulley, Frick & Gilman, Inc.
180 Howard
Suite 200
San Francisco, CA 94105

Date: 08-AUG-02
Lab Job Number: 159786
Project ID: 030013
Location: Avis-Oakland

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

Reviewed by:

Project Manager

Reviewed by:

Operations Manager

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NELAP # 01107CA

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MFG, Inc.

Laboratory Number: **159786**
Client: **MFG, Inc.**
Project Name: **Avis-Oakland**

Receipt Date: **07/19/02**

CASE NARRATIVE

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

Total Volatile Hydrocarbons: The bromofluorobenzene surrogate recovery for sample COMPOSITE (159786-005) was above acceptance limits due to coelution of the surrogate peaks with hydrocarbon peaks. The associated trifluorotoluene surrogate recovery was acceptable, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

Total Extractable Hydrocarbons: No analytical problems were encountered.

Volatile Organic Compounds: No analytical problems were encountered.

Metals: The matrix spike recoveries for nickel were not meaningful. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The associated blank spike recoveries were acceptable, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

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Total Volatile Hydrocarbons			
Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	8015B(M)
Field ID:	COMPOSITE	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73901
Units:	mg/Kg	Sampled:	07/19/02
Basis:	as received	Received:	07/19/02

Type: SAMPLE Analyzed: 07/24/02
 Lab ID: 159786-005

Analyte	Result	RL
Gasoline C7-C12	89 Y	2.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	144	58-144
Bromofluorobenzene (FID)	151 *	60-146

Type: BLANK Analyzed: 07/23/02
 Lab ID: QC184693

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	58-144
Bromofluorobenzene (FID)	101	60-146

*= Value outside of QC limits; see narrative
 Y= Sample exhibits fuel pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
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Total Volatile Hydrocarbons

Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	8015B (M)
Type:	LCS	Basis:	as received
Lab ID:	QC184694	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73901
Units:	mg/Kg	Analyzed:	07/23/02

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.081	91	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	127	58-144
Bromofluorobenzene (FID)	108	60-146

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Total Volatile Hydrocarbons			
Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	8015B (M)
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	159762-013	Batch#:	73901
Matrix:	Soil	Sampled:	07/16/02
Units:	mg/Kg	Received:	07/19/02
Basis:	as received	Analyzed:	07/24/02

Type: MS Lab ID: QC184790

Analyte	MSS Result	Spiked	Result	*REC	Limits
Gasoline C7-C12	0.1480	10.42	7.190	68	44-133
Surrogate	*REC	Limits			
Trifluorotoluene (FID)	120	58-144			
Bromofluorobenzene (FID)	102	60-146			

Type: MSD Lab ID: QC184791

Analyte	Spiked	Result	*REC	Limits	RPD	Lim
Gasoline C7-C12	10.53	8.217	77	44-133	12	31
Surrogate	*REC	Limits				
Trifluorotoluene (FID)	102	58-144				
Bromofluorobenzene (FID)	81	60-146				

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Purgeable Organics by GC/MS

Lab #: 159786	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5030B
Project#: 030013	Analysis: EPA 8260B
Field ID: COMPOSITE	Basis: as received
Lab ID: 159786-005	Sampled: 07/19/02
Matrix: Soil	Received: 07/19/02
Units: ug/Kg	

Analyte	Result	RL	Diin Fac	Batch#	Analyzed
Freon 12	ND	50	5.000	73938	07/24/02
Chloromethane	ND	50	5.000	73938	07/24/02
Vinyl Chloride	ND	50	5.000	73938	07/24/02
Bromomethane	ND	50	5.000	73938	07/24/02
Chloroethane	ND	50	5.000	73938	07/24/02
Trichlorofluoromethane	ND	25	5.000	73938	07/24/02
Acetone	ND	100	5.000	73938	07/24/02
Freon 113	ND	25	5.000	73938	07/24/02
1,1-Dichloroethene	ND	25	5.000	73938	07/24/02
Methylene Chloride	ND	100	5.000	73938	07/24/02
Carbon Disulfide	ND	25	5.000	73938	07/24/02
MTBE	82	25	5.000	73938	07/24/02
trans-1,2-Dichloroethene	ND	25	5.000	73938	07/24/02
Vinyl Acetate	ND	250	5.000	73938	07/24/02
1,1-Dichloroethane	ND	25	5.000	73938	07/24/02
2-Butanone	ND	50	5.000	73938	07/24/02
cis-1,2-Dichloroethene	ND	25	5.000	73938	07/24/02
2,2-Dichloropropane	ND	25	5.000	73938	07/24/02
Chloroform	ND	25	5.000	73938	07/24/02
Bromochloromethane	ND	25	5.000	73938	07/24/02
1,1,1-Trichloroethane	ND	25	5.000	73938	07/24/02
1,1-Dichloropropene	ND	25	5.000	73938	07/24/02
Carbon Tetrachloride	ND	25	5.000	73938	07/24/02
1,2-Dichloroethane	ND	25	5.000	73938	07/24/02
Benzene	ND	25	5.000	73938	07/24/02
Trichloroethene	ND	25	5.000	73938	07/24/02
1,2-Dichloropropane	ND	25	5.000	73938	07/24/02
Bromodichloromethane	ND	25	5.000	73938	07/24/02
Dibromomethane	ND	25	5.000	73938	07/24/02
4-Methyl-2-Pentanone	ND	50	5.000	73938	07/24/02
cis-1,3-Dichloropropene	ND	25	5.000	73938	07/24/02
Toluene	ND	25	5.000	73938	07/24/02
trans-1,3-Dichloropropene	ND	25	5.000	73938	07/24/02
1,1,2-Trichloroethane	ND	25	5.000	73938	07/24/02
2-Hexanone	ND	50	5.000	73938	07/24/02
1,3-Dichloropropane	ND	25	5.000	73938	07/24/02
Tetrachloroethene	ND	25	5.000	73938	07/24/02
Dibromochloromethane	ND	25	5.000	73938	07/24/02

ND= Not Detected
 RL= Reporting Limit
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Chromatogram

Sample Name : 159786-005,73901

FileName : G:\GC05\DATA\204G029.raw

Method : TVHBTXE

Start Time : 0.00 min

Scale Factor: 1.0

End Time : 25.00 min

Plot Offset: -6 mV

Sample #: a

Date : 7/24/02 09:43 AM

Time of Injection: 7/24/02 04:28 AM

Low Point : -6.13 mV

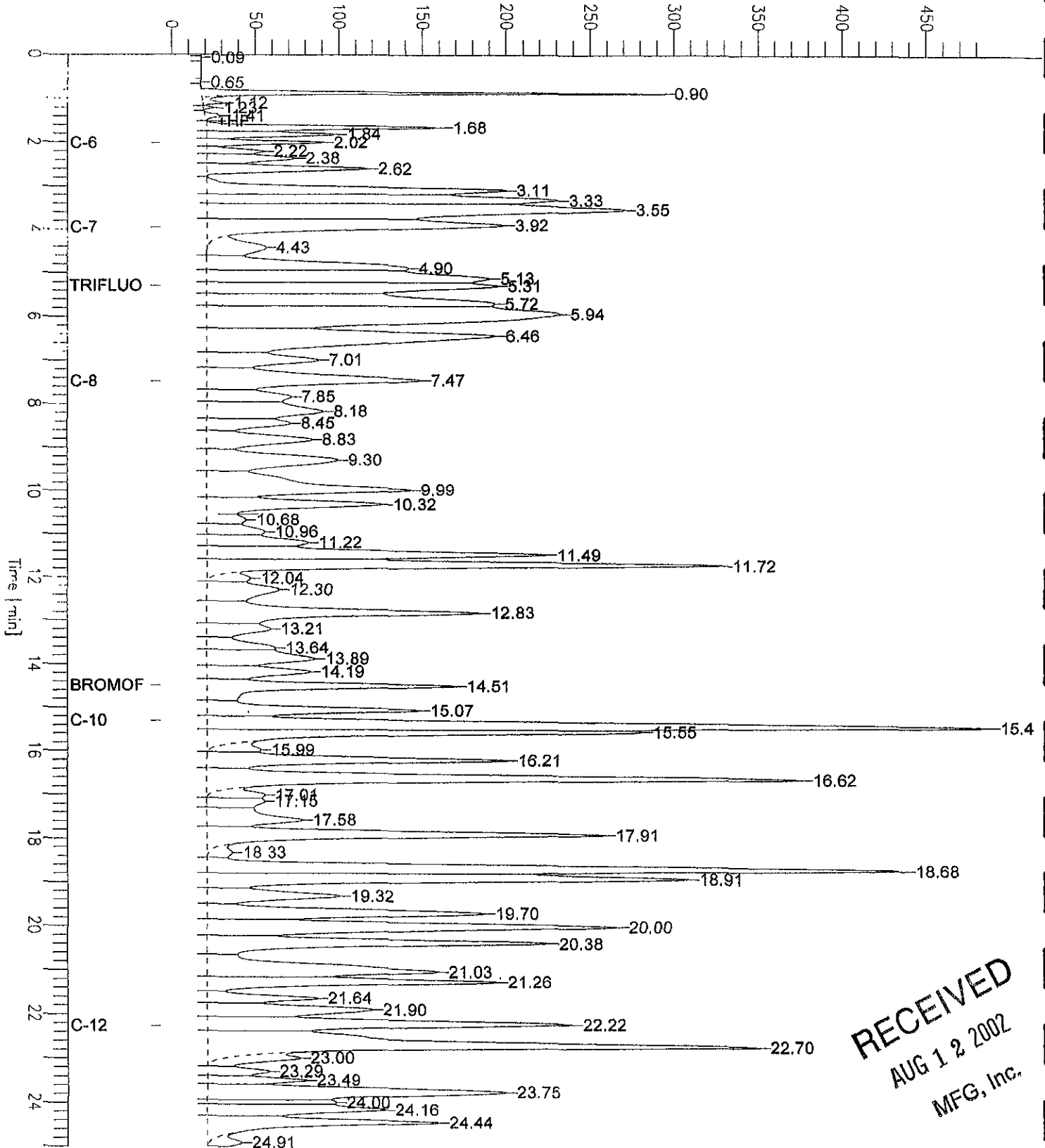
Plot Scale: 495.0 mV

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High Point : 488.83 mV

COMPOSITE

Response [mV]



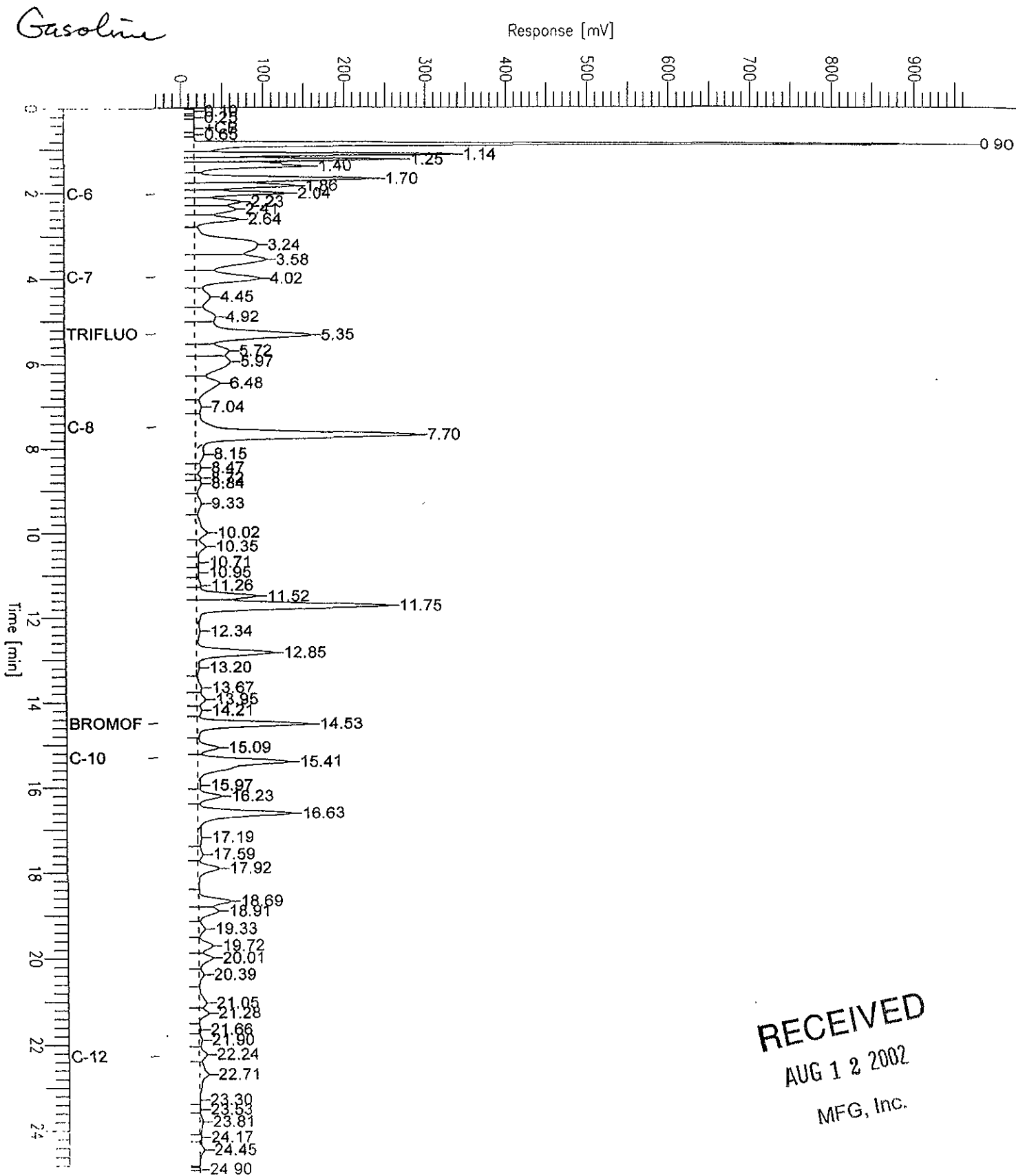
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Chromatogram

Sample Name : CCV/LCS, QC184694, 73901, 02WS119, 5/5000
FileName : G:\GC05\DATA\204G002.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor : 1.0

End Time : 25.00 min
Plot Offset : -31 mV

Sample # :
Date : 7/23/02 12:25 PM
Time of Injection: 7/23/02 12:00 PM
Low Point : -30.96 mV
Plot Scale: 999.8 mV
High Point : 968.88 mV



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Purgeable Organics by GC/MS			
Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	COMPOSITE	Basis:	as received
Lab ID:	159786-005	Sampled:	07/19/02
Matrix:	Soil	Received:	07/19/02
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,2-Dibromoethane	ND	25	5.000	73938	07/24/02
Chlorobenzene	ND	25	5.000	73938	07/24/02
1,1,1,2-Tetrachloroethane	ND	25	5.000	73938	07/24/02
Ethylbenzene	840	25	5.000	73938	07/24/02
m,p-Xylenes	720	250	50.00	74051	07/26/02
o-Xylene	650	25	5.000	73938	07/24/02
Styrene	ND	25	5.000	73938	07/24/02
Bromoform	ND	25	5.000	73938	07/24/02
Isopropylbenzene	91	25	5.000	73938	07/24/02
1,1,2,2-Tetrachloroethane	ND	25	5.000	73938	07/24/02
1,2,3-Trichloropropane	ND	25	5.000	73938	07/24/02
Propylbenzene	430	25	5.000	73938	07/24/02
Bromobenzene	ND	25	5.000	73938	07/24/02
1,3,5-Trimethylbenzene	770	25	5.000	73938	07/24/02
2-Chlorotoluene	ND	25	5.000	73938	07/24/02
4-Chlorotoluene	ND	25	5.000	73938	07/24/02
tert-Butylbenzene	ND	25	5.000	73938	07/24/02
1,2,4-Trimethylbenzene	1,800	250	50.00	74051	07/26/02
sec-Butylbenzene	33	25	5.000	73938	07/24/02
para-Isopropyl Toluene	ND	25	5.000	73938	07/24/02
1,3-Dichlorobenzene	ND	25	5.000	73938	07/24/02
1,4-Dichlorobenzene	ND	25	5.000	73938	07/24/02
n-Butylbenzene	210	25	5.000	73938	07/24/02
1,2-Dichlorobenzene	ND	25	5.000	73938	07/24/02
1,2-Dibromo-3-Chloropropane	ND	25	5.000	73938	07/24/02
1,2,4-Trichlorobenzene	ND	25	5.000	73938	07/24/02
Hexachlorobutadiene	ND	25	5.000	73938	07/24/02
Naphthalene	680	25	5.000	73938	07/24/02
1,2,3-Trichlorobenzene	ND	25	5.000	73938	07/24/02

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	94	74-124	5.000	73938	07/24/02
1,2-Dichloroethane-d4	90	75-128	5.000	73938	07/24/02
Toluene-d8	101	80-120	5.000	73938	07/24/02
Bromofluorobenzene	108	75-127	5.000	73938	07/24/02

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Purgeable Organics by GC/MS

Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC184834	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73938
Units:	ug/Kg	Analyzed:	07/23/02

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

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 ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

MFG, Inc.

Purgeable Organics by GC/MS			
Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC184834	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73938
Units:	ug/Kg	Analyzed:	07/23/02

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

Surrogate	%REC	Limits
Dibromofluoromethane	105	74-124
1,2-Dichloroethane-d4	101	75-128
Toluene-d8	99	80-120
Bromofluorobenzene	111	75-127

ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

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Purgeable Organics by GC/MS

Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC185284	Batch#:	74051
Matrix:	Water	Analyzed:	07/26/02
Units:	ug/L		

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

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

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Purgeable Organics by GC/MS			
Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC185284	Batch#:	74051
Matrix:	Water	Analyzed:	07/26/02
Units:	ug/L		

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

Surrogate	#REC	Limite
Dibromofluoromethane	96	74-124
1,2-Dichloroethane-d4	107	75-128
Toluene-d8	96	80-120
Bromofluorobenzene	95	75-127

ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

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Purgeable Organics by GC/MS			
Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC184832	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73938
Units:	ug/Kg	Analyzed:	07/23/02

Analyte	Spiked	Result	REC	Limits
1,1-Dichloroethene	50.00	52.82	106	70-131
Benzene	50.00	48.37	97	77-120
Trichloroethene	50.00	54.57	109	79-120
Toluene	50.00	46.37	93	80-120
Chlorobenzene	50.00	46.42	93	80-120

Surrogate	REC	Limits
Dibromofluoromethane	107	74-124
1,2-Dichloroethane-d4	100	75-128
Toluene-d8	97	80-120
Bromofluorobenzene	106	75-127

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Purgeable Organics by GC/MS

Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC185283	Batch#:	74051
Matrix:	Water	Analyzed:	07/26/02
Units:	ug/L		

Analyte	Spiked	Result	AREC	Limits
1,1-Dichloroethene	50.00	44.33	89	70-131
Benzene	50.00	45.72	91	77-120
Trichloroethene	50.00	48.67	97	79-120
Toluene	50.00	46.78	94	80-120
Chlorobenzene	50.00	48.87	98	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	91	74-124
1,2-Dichloroethane-d4	106	75-128
Toluene-d8	96	80-120
Bromofluorobenzene	95	75-127

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Purgeable Organics by GC/MS			
Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9615
MSS Lab ID:	159780-004	Batch#:	73938
Matrix:	Soil	Sampled:	07/18/02
Units:	ug/Kg	Received:	07/19/02
Basis:	as received	Analyzed:	07/24/02

Type: MS Lab ID: QC184910

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.6400	48.08	39.31	82	57-134
Benzene	<0.1200	48.08	38.49	80	55-125
Trichloroethene	<0.2100	48.08	43.31	90	37-133
Toluene	<0.2800	48.08	38.64	80	48-131
Chlorobenzene	<0.1400	48.08	35.86	75	42-128

Surrogate	%REC	Limits
Dibromofluoromethane	95	74-124
1,2-Dichloroethane-d4	89	75-128
Toluene-d8	98	80-120
Bromofluorobenzene	105	75-127

Type: MSD Lab ID: QC184911

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	48.08	38.96	81	57-134	1	20
Benzene	48.08	37.31	78	55-125	3	20
Trichloroethene	48.08	41.16	86	37-133	5	21
Toluene	48.08	38.09	79	48-131	1	20
Chlorobenzene	48.08	35.41	74	42-128	1	23

Surrogate	%REC	Limits
Dibromofluoromethane	94	74-124
1,2-Dichloroethane-d4	87	75-128
Toluene-d8	97	80-120
Bromofluorobenzene	102	75-127

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Purgeable Organics by GC/MS			
Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	50.00
MSS Lab ID:	159789-001	Batch#:	74051
Matrix:	Water	Sampled:	07/19/02
Units:	ug/L	Received:	07/20/02

Type: MS Analyzed: 07/26/02
 Lab ID: QC185305

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<14.00	2,500	1,815	73	57-134
Benzene	<16.00	2,500	2,093	84	55-125
Trichloroethene	<12.00	2,500	2,200	88	37-133
Toluene	<15.00	2,500	2,181	87	48-131
Chlorobenzene	<13.00	2,500	2,331	93	42-128

Surrogate	%REC	Limits
Dibromofluoromethane	78	74-124
1,2-Dichloroethane-d4	87	75-128
Toluene-d8	92	80-120
Bromofluorobenzene	87	75-127

Type: MSD Analyzed: 07/27/02
 Lab ID: QC185306

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	2,500	1,976	79	57-134	8	20
Benzene	2,500	2,159	86	55-125	3	20
Trichloroethene	2,500	2,147	86	37-133	2	21
Toluene	2,500	2,328	93	48-131	6	20
Chlorobenzene	2,500	2,438	98	42-128	4	23

Surrogate	%REC	Limits
Dibromofluoromethane	78	74-124
1,2-Dichloroethane-d4	82	75-128
Toluene-d8	95	80-120
Bromofluorobenzene	87	75-127

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Gasoline Oxygenates by GC/MS

Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	COMPOSITE	Batch#:	73938
Matrix:	Soil	Sampled:	07/19/02
Units:	ug/Kg	Received:	07/19/02
Basis:	as received		

Type: SAMPLE Diln Fac: 5.000
 Lab ID: 159786-005 Analyzed: 07/24/02

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	500
MTBE	82	25
Isopropyl Ether (DIPE)	ND	25
Ethyl tert-Butyl Ether (ETBE)	ND	25
Methyl tert-Amyl Ether (TAME)	ND	25

Surrogate	%REC	Limits
Dibromofluoromethane	94	74-124
1,2-Dichloroethane-d4	90	75-128
Toluene-d8	101	80-111
Bromofluorobenzene	108	75-127

Type: BLANK Diln Fac: 1.000
 Lab ID: QC184833 Analyzed: 07/23/02

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	NA	
MTBE	ND	5.0
Isopropyl Ether (DIPE)	NA	
Ethyl tert-Butyl Ether (ETBE)	NA	
Methyl tert-Amyl Ether (TAME)	NA	

Surrogate	%REC	Limits
Dibromofluoromethane	107	74-124
1,2-Dichloroethane-d4	102	75-128
Toluene-d8	99	80-111
Bromofluorobenzene	106	75-127

Type: BLANK Diln Fac: 1.000
 Lab ID: QC184834 Analyzed: 07/23/02

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	74-124
1,2-Dichloroethane-d4	101	75-128
Toluene-d8	99	80-111
Bromofluorobenzene	111	75-127

NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

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Gasoline Oxygenates by GC/MS			
Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC184832	Diln Fac:	1.000
Matrix:	Soil	Batch#:	73938
Units:	ug/Kg	Analyzed:	07/23/02

Analyte	Spiked	Result	REC	Limits
MTBE	50.00	48.23	96	63-121

Surrogate	REC	Limits
Dibromofluoromethane	107	74-124
1,2-Dichloroethane-d4	100	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	106	75-127

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Gasoline Oxygenates by GC/MS

Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9615
MSS Lab ID:	159780-004	Batch#:	73938
Matrix:	Soil	Sampled:	07/18/02
Units:	ug/Kg	Received:	07/19/02
Basis:	as received	Analyzed:	07/24/02

Type: MS Lab ID: QC184910

Analyte	MSS Result	Spiked	Result	%REC	Limits
MTBE	<0.2200	48.08	32.89	68	53-131

Surrogate	%REC	Limits
Dibromofluoromethane	95	74-124
1,2-Dichloroethane-d4	89	75-128
Toluene-d8	98	80-111
Bromofluorobenzene	105	75-127

Type: MSD Lab ID: QC184911

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	48.08	32.95	69	53-131	0	30

Surrogate	%REC	Limits
Dibromofluoromethane	94	74-124
1,2-Dichloroethane-d4	87	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	102	75-127

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California LUFT Metals			
Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3050
Project#:	030013	Analysis:	EPA 6010B
Field ID:	COMPOSITE	Batch#:	73991
Matrix:	Soil	Sampled:	07/19/02
Units:	mg/Kg	Received:	07/19/02
Basis:	as received	Prepared:	07/24/02
Diln Fac:	1.000	Analyzed:	07/25/02

Type: SAMPLE Lab ID: 159786-005

Analyte	Result	RL
Cadmium	0.95	0.24
Chromium	20	0.48
Lead	19	0.14
Nickel	33	0.96
Zinc	39	0.96

Type: BLANK Lab ID: QC185040

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.50
Lead	ND	0.15
Nickel	ND	1.0
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit
Page 1 of 1

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California DDT Metals			
Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3050
Project#:	030013	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	73991
Units:	mg/Kg	Prepared:	07/24/02
Basis:	as received	Analyzed:	07/25/02
Diln Fac:	1.000		

Type: BS Lab ID: QC185041

Analyte	Spiked	Result	%REC	Limits
Cadmium	10.00	8.850	89	69-120
Chromium	100.0	87.00	87	72-120
Lead	100.0	84.50	85	70-120
Nickel	25.00	22.10	88	72-120
Zinc	25.00	20.20	81	65-120

Type: BSD Lab ID: QC185042

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	10.00	8.850	89	69-120	0	20
Chromium	100.0	86.50	87	72-120	1	20
Lead	100.0	84.00	84	70-120	1	20
Nickel	25.00	22.00	88	72-120	0	20
Zinc	25.00	20.25	81	65-120	0	20

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California LUFT Metals			
Lab #:	159786	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 3050
Project#:	030013	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	73991
MSS Lab ID:	159792-001	Sampled:	07/15/02
Matrix:	Soil	Received:	07/19/02
Units:	mg/Kg	Prepared:	07/24/02
Basis:	as received	Analyzed:	07/25/02
Diln Fac:	1.000		

Type: MS Lab ID: QC185043

Analyte	MSS Result	Spiked	Result	%REC	Limit#
Cadmium	2.754	9.662	10.77	83	43-120
Chromium	115.1	96.62	187.9	75	62-145
Lead	<0.05300	96.62	75.36	78	46-128
Nickel	143.1	24.15	155.6	52 NM	62-141
Zinc	23.92	24.15	43.24	80	55-150

Type: MSD Lab ID: QC185044

Analyte	Spiked	Result	%REC	Limit#	RPD	Lim
Cadmium	8.333	9.250	78	43-120	4	26
Chromium	83.33	167.1	62	62-145	5	33
Lead	83.33	62.92	76	46-128	3	39
Nickel	20.83	146.7	17 NM	62-141	4	37
Zinc	20.83	38.50	70	55-150	4	38

NM= Not Meaningful
 RPD= Relative Percent Difference
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APPENDIX H

Boring Logs



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LOG OF BORING B-8

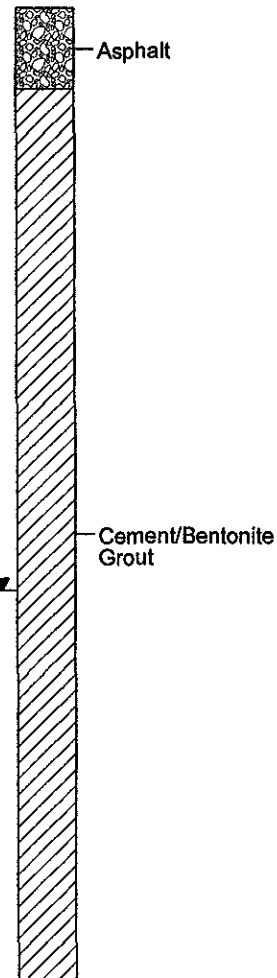
(Page 1 of 1)

Former Avis Rent A Car System, Inc.
1 Neil Armstrong Way
Oakland International Airport
Oakland, California

MFG Project No. 030013

Drilling Agency	: Precision Sampling	Ground Elevation	: Unknown
Drilling Method	: Direct-push (hydraulic hammer)	Logged By	: Jason Triolo
Drill Bit Size	: 2-inch O.D. Steel Casing	Reviewed By	: Chris Spill, R.G.
Sampler Type	: 2-inch O.D., 48-inch long Drive Sampler		
Sampling Method	: 1.75-inch O.D., Butyrate Liners		

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Sample Recovery (inches)	REMARKS
0	ASPHALT				PID calibrated using 100 ppmv as isobutylene.
1	SANDY CLAY: yel brn (10YR 5/6); some F sand, little gravel, few Med to Crs sand, dry [Fill].	CL	1	30	PID = 0.00 ppmv (3.5 to 4.0 feet bgl).
2					
3	SANDY CLAY: red brn (5YR 4/3); some Med to Crs sand and gravel, moist to wet.	CL	2	30	PID = 0.00 ppmv (7.5 to 8.0 feet bgl).
4					
5					
6	CLAYEY SAND: grey (10YR 5/1); F to Med sand, few black organic debris (rootlets), wet.	SC	3	36	PID = 0.00 ppmv (10.5 to 11 feet bgl).
7					
8	SANDY CLAY: bluish black (5PB 2.5/1); few organic debris (shell frags.), soft.	CL			
9					
10	NOTES: 1. Bottom of boring completed at 12.0 feet bgl. 2. Installed one-inch diameter PVC temporary well for grab groundwater sampling. 3. DTW = 7.2 feet bgl. 4. PVC temporary well was removed and the boring sealed with cement/bentonite grout on 16-July-02.				
11					
12					
13					
14					
15					
16					



10-24-2002 J:\030013\Task-04\Borelogs\B-8.BOR



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LOG OF BORING B-9

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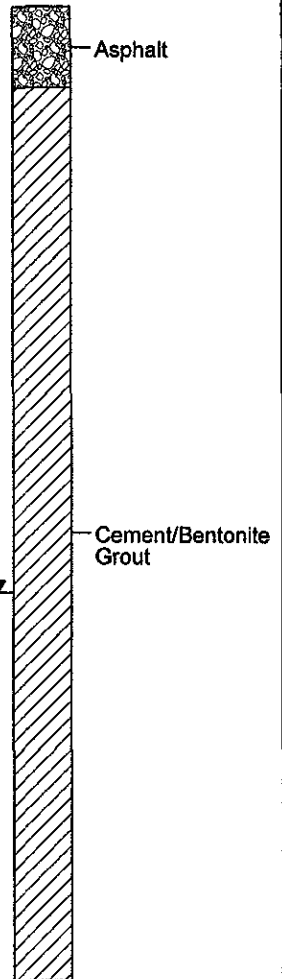
Former Avis Rent A Car System, Inc.
1 Neil Armstrong Way
Oakland International Airport
Oakland, California

MFG Project No. 030013

Drilling Agency	: Precision Sampling	Ground Elevation	: Unknown
Drilling Method	: Direct-push (hydraulic hammer)	Logged By	: Jason Triolo
Drill Bit Size	: 2-inch O.D. Steel Casing	Reviewed By	: Chris Spill, R.G.
Sampler Type	: 2-inch O.D., 48-inch long Drive Sampler		
Sampling Method	: 1.75-inch O.D., Butyrate Liners		

Date Started: 16-July-02
Date Finished: 16-July-02

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Sample Recovery (inches)	REMARKS
0	ASPHALT.				PID calibrated using 100 ppmv as isobutylene.
1	SAND CLAY: yel brn (10YR 5/6); some F sand, little gravel, few Med to Crs sand, dry [Fill].	CL	1	42	PID = 0.00 ppmv (3.5 to 4.0 feet bgl).
2					
3	SANDY CLAY: red brn (5YR 4/3); some Med to Crs sand and gravel, moist to wet.	CL	2	48	PID = 0.00 ppmv (7.5 to 8.0 feet bgl).
4					
5					
6	CLAYEY SAND: grey (10YR 5/1); F to Med sand, few black organic debris (rootlets), wet.	SC	3	36	PID = 0.00 ppmv (10.5 to 11 feet bgl).
7					
8	SAND: dk bluish grey (5B 4/1); F to Med sand, moist.	SP			
9					
10	CLAY: bluish black (5PB 2.5/1); few organic debris (shell frags.), soft.	CL			
11					
12	<p>NOTES:</p> <ol style="list-style-type: none"> Bottom of boring completed at 12.0 feet bgl. Installed one-inch diameter PVC temporary well for grab groundwater sampling. DTW = 7.23 feet bgl. PVC temporary well was removed and the boring sealed with cement/bentonite grout on 16-July-02. 				
13					
14					
15					
16					



10-24-2002 J:\030013\Task-04\Borelogs\B-9.BOR



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LOG OF BORING B-10

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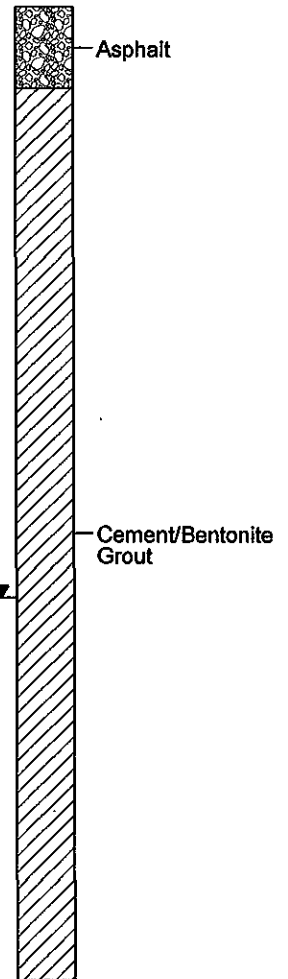
Former Avis Rent A Car System, Inc.
1 Neil Armstrong Way
Oakland International Airport
Oakland, California

MFG Project No. 030013

Drilling Agency : Precision Sampling
 Drilling Method : Direct-push (hydraulic hammer)
 Drill Bit Size : 2-inch O.D. Steel Casing
 Sampler Type : 2-inch O.D., 48-inch long Drive Sampler
 Sampling Method : 1.75-inch O.D., Butyrate Liners
 Ground Elevation : Unknown
 Logged By : Jason Triolo
 Reviewed By : Chris Spill, R.G.

Date Started: 16-July-02
Date Finished: 16-July-02

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Sample Recovery (inches)	REMARKS
0	ASPHALT				PID calibrated using 100 ppmv as isobutylene.
1	SANDY CLAY: yel brn (10YR 5/6); some F sand, little gravel, few Med to Crs sand, dry [Fill].		1	42	
2		CL	2	48	PID = 0.00 ppmv (3.5 to 4.0 feet bgl).
3					
4		CL	3	48	PID = 0.00 ppmv (7.5 to 8.0 feet bgl).
5					
6	SANDY CLAY: red brn (5YR 4/3); some Med to Crs sand, little subangular-angular gravel, moist.				PID = 0.00 ppmv (10.5 to 11 feet bgl).
7					
8	CLAYEY SAND: grey (10YR 5/1); F to Med sand, few black organic debris (rootlets), wet.	SC			
9		SP	3	48	PID = 0.00 ppmv (10.5 to 11 feet bgl).
10	SAND: bluish black (5PB 2.5/1); F to Med sand, few shell frags, wet.				
11	CLAY: bluish black (5PB 2.5/1); little organic debris (shells), firm, moist.	CL			
12					



NOTES:

- Bottom of boring completed at 12.0 feet bgl.
- Installed one-inch diameter PVC temporary well for grab groundwater sampling.
- DTW = 7.3 feet bgl.
- PVC temporary well was removed and the boring sealed with cement/bentonite grout on 16-July-02.

10-24-2002 J:\030013\Task-04\Borelogs\B-10.BOR



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LOG OF BORING B-11

(Page 1 of 1)

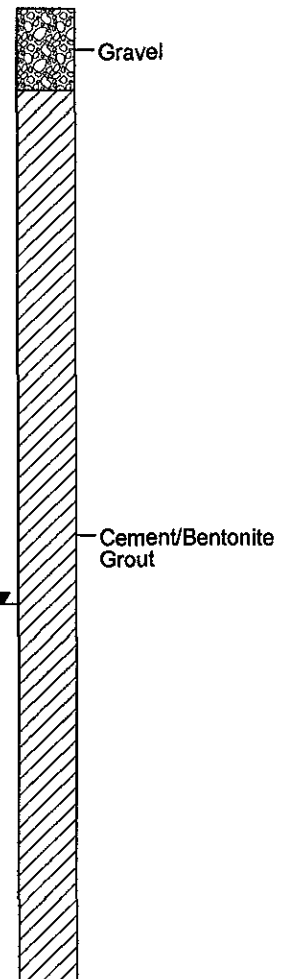
Former Avis Rent A Car System, Inc.
1 Neil Armstrong Way
Oakland International Airport
Oakland, California

MFG Project No. 030013

Drilling Agency : Precision Sampling
Drilling Method : Direct-push (hydraulic hammer)
Drill Bit Size : 2-inch O.D. Steel Casing
Sampler Type : 2-inch O.D., 48-inch long Drive Sampler
Sampling Method : 1.75-inch O.D., Butyrate Liners

Ground Elevation : Unknown
Logged By : Jason Triolo
Reviewed By : Chris Spill, R.G.

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Sample Recovery (inches)	REMARKS
0	GRAVEL [FILL]				PID calibrated using 100 ppmv as isobutylene.
1	SANDY CLAY: yel brn (10YR 5/6); some F sand, little gravel, few Med to Crs sand, dry [Fill].	CL	1	48	PID = 0.00 ppmv (3.5 to 4.0 feet bgl).
2					
3	SANDY CLAY: red brn (5YR 4/3) mottling w/ yel brn (10YR 5/6); some Med to Crs sand and gravel, moist.	CL	2	48	PID = 0.00 ppmv (7.5 to 8.0 feet bgl).
4					
6					
7	CLAYEY SAND: grey (10YR 5/1); F to Med sand, few black organic debris (rootlets), wet.	SC			
8					
9	SAND: dk bluish grey (5B 4/1); F to Med sand, wet.	SP	3	48	PID = 0.00 ppmv (10.5 to 11 feet bgl).
10					
11	CLAY: black (2.5Y 2.5/1); little organic debris (shell frags.), moist.	CL			
12	<p>NOTES:</p> <ol style="list-style-type: none"> Bottom of boring completed at 12.0 feet bgl. Installed one-inch diameter PVC temporary well for grab groundwater sampling. DTW = 7.3 feet bgl. PVC temporary well was removed and the boring sealed with cement/bentonite grout on 16-July-02. 				



10-24-2002 J:\030013\Task-04\Borelogs\B-11.BOR



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LOG OF BORING B-12

(Page 1 of 1)

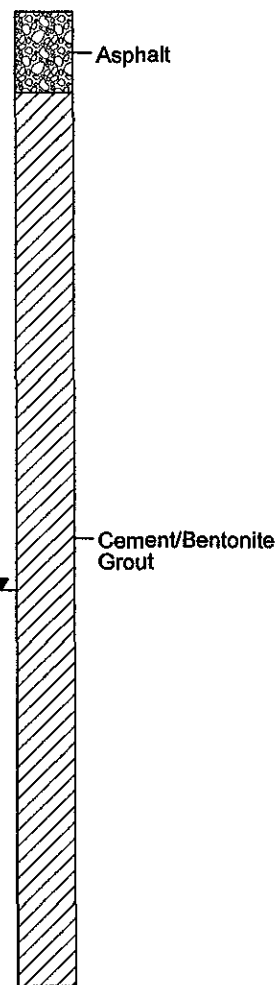
Former Avis Rent A Car System, Inc.
1 Neil Armstrong Way
Oakland International Airport
Oakland, California

MFG Project No. 030013

Drilling Agency	: Precision Sampling	Ground Elevation	: Unknown
Drilling Method	: Direct-push (hydraulic hammer)	Logged By	: Jason Triolo
Drill Bit Size	: 2-inch O.D. Steel Casing	Reviewed By	: Chris Spill, R.G.
Sampler Type	: 2-inch O.D., 48-inch long Drive Sampler		
Sampling Method	: 1.75-inch O.D., Butyrate Liners		

Date Started: 16-July-02
Date Finished: 16-July-02

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Sample Recovery (inches)	REMARKS
0	ASPHALT				PID calibrated using 100 ppmv as isobutylene.
1	SANDY CLAY: yel brn (10YR 5/6); some F sand, little gravel, few Med to Crs sand, dry [Fill].		1	42	
2		CL			PID = 0.00 ppmv (3.5 to 4.0 feet bgl).
3					
4					
5					
6	SANDY CLAY: red brn (5YR 4/3); some Med to Crs sand, little subangular-angular gravel, moist.		2	48	PID = 0.00 ppmv (7.5 to 8.0 feet bgl).
7		CL			
8					
9	CLAYEY SAND: grey (10YR 5/1); F to Med Sand, few black organic debris (rootlets), wet.	SC			
10	SAND: dk bluish grey (5B 4/1); F to Med sand, wet.	SP	3	45	PID = 0.00 ppmv (10.5 to 11 feet bgl).
11	CLAY: bluish black (5PB 2.5/1); few organic debris, firm, moist.	CL			



- NOTES:
1. Bottom of boring completed at 12.0 feet bgl.
 2. Installed one-inch diameter PVC temporary well for grab groundwater sampling.
 3. DTW = 7.15 feet bgl.
 4. PVC temporary well was removed and the boring sealed with cement/bentonite grout on 16-July-02.

10-24-2002 J:\030013\Task-04\Borelogs\B-12.BOR



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LOG OF BORING B-13

(Page 1 of 1)

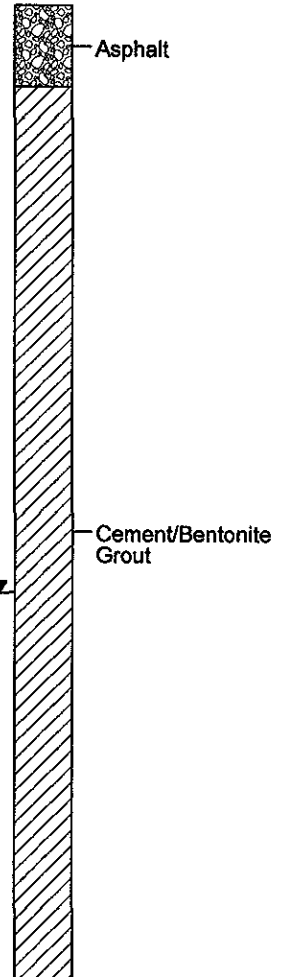
Former Avis Rent A Car System, Inc.
1 Neil Armstrong Way
Oakland International Airport
Oakland, California

MFG Project No. 030013

Drilling Agency	: Precision Sampling	Ground Elevation	: Unknown
Drilling Method	: Direct-push (hydraulic hammer)	Logged By	: Jason Triolo
Drill Bit Size	: 2-inch O.D. Steel Casing	Reviewed By	: Chris Spill, R.G.
Sampler Type	: 2-inch O.D., 48-inch long Drive Sampler		
Sampling Method	: 1.75-inch O.D., Butyrate Liners		

Date Started: 16-July-02
Date Finished: 16-July-02

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Sample Recovery (inches)	REMARKS
0	ASPHALT				PID calibrated using 100 ppmv as isobutylene.
1	SANDY CLAY: yel brn (10YR 5/6); some F sand, little gravel, few Med to Crs sand, dry [Fill].	CL	1	36	PID = 0.00 ppmv (3.5 to 4.0 feet bgl).
2					
3	SANDY CLAY: red brn (5YR 4/3); some Med to Crs sand, little subangular-angular gravel, moist.	CL	2	42	PID = 0.00 ppmv (7.5 to 8.0 feet bgl).
4					
5					
6	CLAYEY SAND: grey (10YR 5/1); F to Med sand, few black organic debris (rootlets), wet.	SC	3	48	PID = 0.00 ppmv (10.5 to 11 feet bgl).
7					
8	SAND: bluish black (5PB 2.5/1); F to Med sand, few shell frags, wet.	SP			
9					
10	CLAY: bluish black (5PB 2.5/1); little organic debris (shells), firm, moist.	CL			
11					
12					



NOTES:

- Bottom of boring completed at 12.0 feet bgl.
- Installed one-inch diameter PVC temporary well for grab groundwater sampling.
- DTW = 7.25 feet bgl.
- PVC temporary well was removed and the boring sealed with cement/bentonite grout on 16-July-02.

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LOG OF BORING B-14

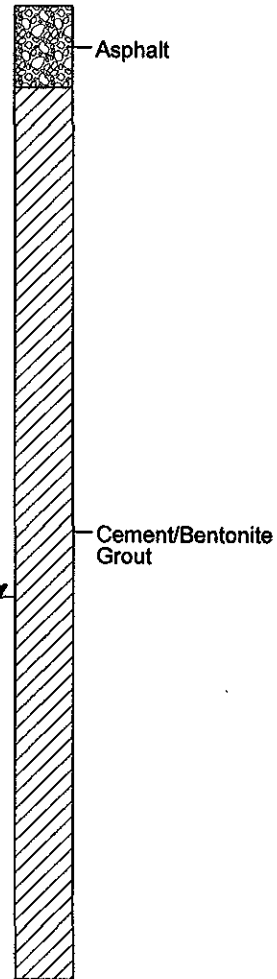
(Page 1 of 1)

Former Avis Rent A Car System, Inc.
1 Neil Armstrong Way
Oakland International Airport
Oakland, California

MFG Project No. 030013

Drilling Agency	: Precision Sampling	Ground Elevation	: Unknown
Drilling Method	: Direct-push (hydraulic hammer)	Logged By	: Jason Triolo
Drill Bit Size	: 2-inch O.D. Steel Casing	Reviewed By	: Chris Spill, R.G.
Sampler Type	: 2-inch O.D., 48-inch long Drive Sampler		
Sampling Method	: 1.75-inch O.D., Butyrate Liners		

Depth in Feet	DESCRIPTION	USCS	Sample Interval	Sample Recovery (inches)	REMARKS
0	ASPHALT				PID calibrated using 100 ppmv as isobutylene.
1	SANDY CLAY: yel brn (10YR 5/6); some F sand, little gravel, few Med to Crs sand, dry [Fill].	CL	1	36	PID = 0.00 ppmv (3.5 to 4.0 feet bgl).
2					
3	SANDY CLAY: red brn (5YR 4/3); some Med to Crs sand, little subangular-angular gravel, moist.	CL	2	42	PID = 0.00 ppmv (7.5 to 8.0 feet bgl).
4					
5					
6	CLAYEY SAND: grey (10YR 5/1); F to Med sand, few black organic debris (rootlets), wet.	SC	3	48	PID = 0.00 ppmv (10.5 to 11 feet bgl).
7					
8	CLAY: bluish black (5PB 2.5/1) little organic debris (shells), firm, moist.	CL			
9					
10	SAND: bluish black (5PB 2.5/1); F to Med sand, few shell frags, wet.	SP			
11					
12	NOTES: 1. Bottom of boring completed at 12.0 feet bgl. 2. Installed one-inch diameter PVC temporary well for grab groundwater sampling. 3. DTW = 7.3 feet bgl. 4. PVC temporary well was removed and the boring sealed with cement/bentonite grout on 16-July-02.				
13					
14					
15					
16					



10-24-2002 J:\030013\Task-04\Borelogs\B-14.BOR

APPENDIX I

**Laboratory Report and Chain-of-Custody Record
for Grab Groundwater Samples**



A N A L Y T I C A L R E P O R T

Prepared for:

McCulley, Frick & Gilman, Inc.
180 Howard
Suite 200
San Francisco, CA 94105

Date: 05-AUG-02
Lab Job Number: 159713
Project ID: 030013
Location: Avis-Oakland

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

Reviewed by: 
Project Manager

Reviewed by: 
Operations Manager

This package may be reproduced only in its entirety.

NELAP # 01107CA

Page 1 of 36

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MFG, Inc.

Laboratory Number: 159713
Client: MFG, Inc.
Project Name: Avis-Oakland

Receipt Date: 07/17/02

CASE NARRATIVE

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

Total Volatile Hydrocarbons: No analytical problems were encountered.

Volatile Organic Compounds: Naphthalene was detected in the method blank from batch number 73946. The compound was not detected in any samples from this batch, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

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MFG, Inc.

159713

MFG, Inc. CHAIN-OF-CUSTODY RECORD AND REQUEST FOR ANALYSIS

COC No. **44976**

- | | | | | | |
|---|---|---|--|---|---|
| <input type="checkbox"/> Arcata Office
1165 G Street, Suite E
Arcata, CA 95521-5817
Tel: (707) 826-8430
Fax: (707) 826-8437 | <input type="checkbox"/> Boulder Office
4900 Pearl East Circle
Suite 300W
Boulder, CO 80301-6118
Tel: (303) 447-1823
Fax: (303) 447-1836 | <input type="checkbox"/> Irvine Office
17770 Cartwright Road
Suite 500
Irvine, CA 92614-5850
Tel: (949) 253-2951
Fax: (949) 253-2954 | <input type="checkbox"/> Osburn Office
P.O. Box 30
Wallace, ID
83873-0030
Tel: (208) 556-6811
Fax: (208) 556-7271 | <input checked="" type="checkbox"/> San Francisco Office
180 Howard Street, Suite 200
San Francisco, CA 94105-1617
Phone (415) 495-7110 - Fax (415) 495-7107 | <input type="checkbox"/> Seattle Office
19203 36th Avenue W.
Suite 101
Lynnwood, WA 98036-5707
Tel: (425) 921-4000
Fax: (425) 921-4040 |
|---|---|---|--|---|---|

PROJECT NO: 03003 PROJECT NAME: Avis - Oakland PAGE: 1 OF: 1
 SAMPLER (Signature): _____ PROJECT MANAGER: Ken Johnson DATE: 7/17/02
 METHOD OF SHIPMENT: MFG Delivered CARRIER/WAYBILL NO: NA DESTINATION: Curtis + Tompkins

Field Sample Identification	SAMPLES										ANALYSIS REQUEST						
	Sample			Preservation				Containers			Constituents/Method			Handling			Remarks
	DATE	TIME	Matrix*	HCl	HNO ₃	H ₂ SO ₄	COLD	FILTRATION*	VOLUME (ml/oz)	TYPE*	NO.	TPH/lys	Vol% B200	Oxyfem/les	HOLD	RUSH	
B8 - GW	7/16/02	5:00	AQ	X			X	U	40ml	G	S	X	X	X			X
B9 - GW		3:30	AQ	X			X	U	40ml	G	S	X	X	X			X
B10 - GW		4:36	AQ	X			X	U	40ml	G	S	X	X	X			X
B11 - GW		3:40	AQ	X			X	U	40ml	G	S	X	X	X			X
B12 - GW		3:30	AQ	X			X	U	40ml	G	S	X	X	X			X
B13 - GW		4:00	AQ	X			X	U	40ml	G	S	X	X	X			X
B14 - GW		4:10	AQ	X			X	U	40ml	G	S	X	X	X			X

Received On Ice
 Cold Ambient Intact

Preservation Correct?
 Yes No N/A

TOTAL NUMBER OF CONTAINERS: 35 LABORATORY COMMENTS/CONDITION OF SAMPLES: _____ Cooler Temp: _____

RELINQUISHED BY:					RECEIVED BY:		
SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME	SIGNATURE	PRINTED NAME	COMPANY
	Christopher Spill	MFG-SF	7/17/02			G. Alvarez	CET 7-17-02 8:20am

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LABORATORY

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*KEY Matrix: AQ - aqueous NA - nonaqueous SO - soil SL - sludge P - petroleum A - air OT - other Containers: P - plastic G - glass T - teflon B - brass OT - other Filtration: F - filtered U - unfiltered
 DISTRIBUTION: PINK: Field Copy YELLOW: Laboratory Copy WHITE: Return to Originator

Total Volatile Hydrocarbons			
Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	8015B (M)
Matrix:	Water	Sampled:	07/16/02
Units:	ug/L	Received:	07/17/02
Diln Fac:	1.000	Analyzed:	07/17/02
Batch#:	73808		

Field ID: B12-GW Lab ID: 159713-005
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	50
Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	68-145
Bromofluorobenzene (FID)	106	66-143

Field ID: B13-GW Lab ID: 159713-006
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	50
Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	68-145
Bromofluorobenzene (FID)	105	66-143

Field ID: B14-GW Lab ID: 159713-007
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	50
Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	68-145
Bromofluorobenzene (FID)	109	66-143

Type: BLANK Lab ID: QC184320

Analyte	Result	RL
Gasoline C7-C12	ND	50
Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	68-145
Bromofluorobenzene (FID)	100	66-143

Total Volatile Hydrocarbons

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	8015B (M)
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC184321	Batch#:	73808
Matrix:	Water	Analyzed:	07/17/02
Units:	ug/L		

Analyte	Spiked	Result	REC	Limits
Gasoline C7-C12	2,000	1,941	97	79-120

Surrogate	REC	Limits
Trifluorotoluene (FID)	124	68-145
Bromofluorobenzene (FID)	106	66-143

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MFG, Inc.

2.0

Total Volatile Hydrocarbons			
Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	8015B(M)
Field ID:	B8-GW	Batch#:	73808
MSS Lab ID:	159713-001	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/17/02
Diln Fac:	1.000		

Type: MS Lab ID: QC184322

Analyte	MSS Result	Spiked	Result	%REC	Limite
Gasoline C7-C12	27.63	2,000	1,903	94	67-120

Surrogate	%REC	Limite
Trifluorotoluene (FID)	124	68-145
Bromofluorobenzene (FID)	108	66-143

Type: MSD Lab ID: QC184323

Analyte	Spiked	Result	%REC	Limite	RPD	Lim
Gasoline C7-C12	2,000	1,922	95	67-120	1	20

Surrogate	%REC	Limite
Trifluorotoluene (FID)	123	68-145
Bromofluorobenzene (FID)	108	66-143

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Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	B8-GW	Batch#:	73907
Lab ID:	159713-001	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/22/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	0.8	0.5
MTBE	14	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

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AUG 9 2002 4.0

MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	B8-GW	Batch#:	73907
Lab ID:	159713-001	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/22/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	113	77-130
Toluene-d8	95	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

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AUG 9 2002 4.0

MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	B9-GW	Diln Fac:	1.000
Lab ID:	159713-002	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
Freon 12	ND	1.0	73907	07/22/02
Chloromethane	ND	1.0	73907	07/22/02
Vinyl Chloride	ND	0.5	73907	07/22/02
Bromomethane	ND	1.0	73907	07/22/02
Chloroethane	ND	1.0	73907	07/22/02
Trichlorofluoromethane	ND	1.0	73907	07/22/02
Acetone	15	10	73946	07/23/02
Freon 113	ND	5.0	73907	07/22/02
1,1-Dichloroethene	ND	0.5	73907	07/22/02
Methylene Chloride	ND	10	73907	07/22/02
Carbon Disulfide	3.7	0.5	73907	07/22/02
MTBE	37	0.5	73907	07/22/02
trans-1,2-Dichloroethene	ND	0.5	73907	07/22/02
Vinyl Acetate	ND	10	73907	07/22/02
1,1-Dichloroethane	ND	0.5	73907	07/22/02
2-Butanone	ND	10	73907	07/22/02
cis-1,2-Dichloroethene	ND	0.5	73907	07/22/02
2,2-Dichloropropane	ND	0.5	73907	07/22/02
Chloroform	ND	0.5	73907	07/22/02
Bromochloromethane	ND	0.5	73907	07/22/02
1,1,1-Trichloroethane	ND	0.5	73907	07/22/02
1,1-Dichloropropene	ND	0.5	73907	07/22/02
Carbon Tetrachloride	ND	0.5	73907	07/22/02
1,2-Dichloroethane	ND	0.5	73907	07/22/02
Benzene	ND	0.5	73907	07/22/02
Trichloroethene	ND	0.5	73907	07/22/02
1,2-Dichloropropane	ND	0.5	73907	07/22/02
Bromodichloromethane	ND	0.5	73907	07/22/02
Dibromomethane	ND	0.5	73907	07/22/02
4-Methyl-2-Pentanone	ND	10	73907	07/22/02
cis-1,3-Dichloropropene	ND	0.5	73907	07/22/02
Toluene	ND	0.5	73907	07/22/02
trans-1,3-Dichloropropene	ND	0.5	73907	07/22/02
1,1,2-Trichloroethane	ND	0.5	73907	07/22/02
2-Hexanone	ND	10	73907	07/22/02
1,3-Dichloropropane	ND	0.5	73907	07/22/02
Tetrachloroethene	ND	0.5	73907	07/22/02
Dibromochloromethane	ND	0.5	73907	07/22/02

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS

Lab #: 159713	Location: Avis-Oakland
Client: McCulley, Frick & Gilman, Inc.	Prep: EPA 5030B
Project#: 030013	Analysis: EPA 8260B
Field ID: B9-GW	Diln Fac: 1.000
Lab ID: 159713-002	Sampled: 07/16/02
Matrix: Water	Received: 07/17/02
Units: ug/L	

Analyte	Result	RL	Batch#	Analyzed
1,2-Dibromoethane	ND	0.5	73907	07/22/02
Chlorobenzene	ND	0.5	73907	07/22/02
1,1,1,2-Tetrachloroethane	ND	0.5	73907	07/22/02
Ethylbenzene	ND	0.5	73907	07/22/02
m,p-Xylenes	ND	0.5	73907	07/22/02
o-Xylene	ND	0.5	73907	07/22/02
Styrene	ND	0.5	73907	07/22/02
Bromoform	ND	1.0	73907	07/22/02
Isopropylbenzene	ND	0.5	73907	07/22/02
1,1,2,2-Tetrachloroethane	ND	0.5	73907	07/22/02
1,2,3-Trichloropropane	ND	0.5	73907	07/22/02
Propylbenzene	ND	0.5	73907	07/22/02
Bromobenzene	ND	0.5	73907	07/22/02
1,3,5-Trimethylbenzene	ND	0.5	73907	07/22/02
2-Chlorotoluene	ND	0.5	73907	07/22/02
4-Chlorotoluene	ND	0.5	73907	07/22/02
tert-Butylbenzene	ND	0.5	73907	07/22/02
1,2,4-Trimethylbenzene	ND	0.5	73907	07/22/02
sec-Butylbenzene	ND	0.5	73907	07/22/02
para-Isopropyl Toluene	ND	0.5	73907	07/22/02
1,3-Dichlorobenzene	ND	0.5	73907	07/22/02
1,4-Dichlorobenzene	ND	0.5	73907	07/22/02
n-Butylbenzene	ND	0.5	73907	07/22/02
1,2-Dichlorobenzene	ND	0.5	73907	07/22/02
1,2-Dibromo-3-Chloropropane	ND	0.5	73907	07/22/02
1,2,4-Trichlorobenzene	ND	0.5	73907	07/22/02
Hexachlorobutadiene	ND	0.5	73907	07/22/02
Naphthalene	ND	0.5	73907	07/22/02
1,2,3-Trichlorobenzene	ND	0.5	73907	07/22/02

Surrogate	REC	Limits	Batch#	Analyzed
Dibromofluoromethane	101	80-121	73907	07/22/02
1,2-Dichloroethane-d4	114	77-130	73907	07/22/02
Toluene-d8	93	80-120	73907	07/22/02
Bromofluorobenzene	98	80-120	73907	07/22/02

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	B10-GW	Batch#:	73907
Lab ID:	159713-003	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/22/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS			
Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	B10-GW	Batch#:	73907
Lab ID:	159713-003	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/22/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-121
1,2-Dichloroethane-d4	114	77-130
Toluene-d8	97	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	B11-GW	Diln Fac:	1.000
Lab ID:	159713-004	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/23/02

Analyte	Result	RL	Batch#
Freon 12	ND	1.0	73907
Chloromethane	ND	1.0	73907
Vinyl Chloride	ND	0.5	73907
Bromomethane	ND	1.0	73907
Chloroethane	ND	1.0	73907
Trichlorofluoromethane	ND	1.0	73907
Acetone	ND	10	73946
Freon 113	ND	5.0	73907
1,1-Dichloroethene	ND	0.5	73907
Methylene Chloride	ND	10	73907
Carbon Disulfide	0.8	0.5	73907
MTBE	ND	0.5	73907
trans-1,2-Dichloroethene	ND	0.5	73907
Vinyl Acetate	ND	10	73907
1,1-Dichloroethane	ND	0.5	73907
2-Butanone	ND	10	73907
cis-1,2-Dichloroethene	ND	0.5	73907
2,2-Dichloropropane	ND	0.5	73907
Chloroform	ND	0.5	73907
Bromochloromethane	ND	0.5	73907
1,1,1-Trichloroethane	ND	0.5	73907
1,1-Dichloropropene	ND	0.5	73907
Carbon Tetrachloride	ND	0.5	73907
1,2-Dichloroethane	ND	0.5	73907
Benzene	ND	0.5	73907
Trichloroethene	ND	0.5	73907
1,2-Dichloropropane	ND	0.5	73907
Bromodichloromethane	ND	0.5	73907
Dibromomethane	ND	0.5	73907
4-Methyl-2-Pentanone	ND	10	73907
cis-1,3-Dichloropropene	ND	0.5	73907
Toluene	ND	0.5	73907
trans-1,3-Dichloropropene	ND	0.5	73907
1,1,2-Trichloroethane	ND	0.5	73907
2-Hexanone	ND	10	73907
1,3-Dichloropropane	ND	0.5	73907
Tetrachloroethene	ND	0.5	73907
Dibromochloromethane	ND	0.5	73907

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS			
Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	B11-GW	Diln Fac:	1.000
Lab ID:	159713-004	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/23/02

Analyte	Result	RL	Batch#
1,2-Dibromoethane	ND	0.5	73907
Chlorobenzene	ND	0.5	73907
1,1,1,2-Tetrachloroethane	ND	0.5	73907
Ethylbenzene	ND	0.5	73907
m,p-Xylenes	ND	0.5	73907
o-Xylene	ND	0.5	73907
Styrene	ND	0.5	73907
Bromoform	ND	1.0	73907
Isopropylbenzene	ND	0.5	73907
1,1,2,2-Tetrachloroethane	ND	0.5	73907
1,2,3-Trichloropropane	ND	0.5	73907
Propylbenzene	ND	0.5	73907
Bromobenzene	ND	0.5	73907
1,3,5-Trimethylbenzene	ND	0.5	73907
2-Chlorotoluene	ND	0.5	73907
4-Chlorotoluene	ND	0.5	73907
tert-Butylbenzene	ND	0.5	73907
1,2,4-Trimethylbenzene	ND	0.5	73907
sec-Butylbenzene	ND	0.5	73907
para-Isopropyl Toluene	ND	0.5	73907
1,3-Dichlorobenzene	ND	0.5	73907
1,4-Dichlorobenzene	ND	0.5	73907
n-Butylbenzene	ND	0.5	73907
1,2-Dichlorobenzene	ND	0.5	73907
1,2-Dibromo-3-Chloropropane	ND	0.5	73907
1,2,4-Trichlorobenzene	ND	0.5	73907
Hexachlorobutadiene	ND	0.5	73907
Naphthalene	ND	0.5	73907
1,2,3-Trichlorobenzene	ND	0.5	73907

Surrogate	%REC	Limits	Batch#
Dibromofluoromethane	99	80-121	73907
1,2-Dichloroethane-d4	116	77-130	73907
Toluene-d8	100	80-120	73907
Bromofluorobenzene	99	80-120	73907

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	B12-GW	Batch#:	73907
Lab ID:	159713-005	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/23/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	1.2	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	B12-GW	Batch#:	73907
Lab ID:	159713-005	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/23/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limit
Dibromofluoromethane	101	80-121
1,2-Dichloroethane-d4	118	77-130
Toluene-d8	97	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	B13-GW	Batch#:	73956
Lab ID:	159713-006	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/23/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	4.6	0.5
MTBE	0.9	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	B13-GW	Batch#:	73956
Lab ID:	159713-006	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/23/02
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-121
1,2-Dichloroethane-d4	110	77-130
Toluene-d8	92	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	B14-GW	Batch#:	73956
Lab ID:	159713-007	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/23/02
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	0.5	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS			
Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Field ID:	B14-GW	Batch#:	73956
Lab ID:	159713-007	Sampled:	07/16/02
Matrix:	Water	Received:	07/17/02
Units:	ug/L	Analyzed:	07/23/02
Diln Fac:	1.000		

Analysis	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	0.5	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	117	77-130
Toluene-d8	98	80-120
Bromofluorobenzene	100	80-120

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 ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

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Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184721	Batch#:	73907
Matrix:	Water	Analyzed:	07/22/02
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS			
Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184721	Batch#:	73907
Matrix:	Water	Analyzed:	07/22/02
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	REC	Limit
Dibromofluoromethane	95	80-121
1,2-Dichloroethane-d4	107	77-130
Toluene-d8	92	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184864	Batch#:	73946
Matrix:	Water	Analyzed:	07/23/02
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

ND= Not Detected
RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184864	Batch#:	73946
Matrix:	Water	Analyzed:	07/23/02
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	0.7	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	96	77-130
Toluene-d8	99	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184898	Batch#:	73956
Matrix:	Water	Analyzed:	07/23/02
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

ND= Not Detected
RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC184898	Batch#:	73956
Matrix:	Water	Analyzed:	07/23/02
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	EPEC	Limit
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	111	77-130
Toluene-d8	95	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
 RL= Reporting Limit
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MFG, Inc.

Purgeable Organics by GC/MS			
Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	73907
Units:	ug/L	Analyzed:	07/22/02
Diln Fac:	1.000		

Type: BS Lab ID: QC184718

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	45.01	90	71-131
Benzene	50.00	44.18	88	76-120
Trichloroethene	50.00	49.68	99	78-120
Toluene	50.00	46.56	93	79-120
Chlorobenzene	50.00	52.24	104	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	110	77-130
Toluene-d8	97	80-120
Bromofluorobenzene	89	80-120

Type: BSD Lab ID: QC184719

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	43.74	87	71-131	3	20
Benzene	50.00	45.14	90	76-120	2	20
Trichloroethene	50.00	49.92	100	78-120	0	20
Toluene	50.00	48.02	96	79-120	3	20
Chlorobenzene	50.00	49.50	99	80-120	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	113	77-130
Toluene-d8	99	80-120
Bromofluorobenzene	93	80-120

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MFG, Inc.

Purgeable Organics by GC/MS					
Lab #:	159713	Location:	Avis-Oakland		
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B		
Project#:	030013	Analysis:	EPA 8260B		
Matrix:	Water	Batch#:	73946		
Units:	ug/L	Analyzed:	07/23/02		
Diln Fac:	1.000				

Type: BS Lab ID: QC184862

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	45.64	91	71-131
Benzene	50.00	42.73	85	76-120
Trichloroethene	50.00	47.80	96	78-120
Toluene	50.00	43.14	86	79-120
Chlorobenzene	50.00	41.68	83	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-121
1,2-Dichloroethane-d4	105	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	99	80-120

Type: BSD Lab ID: QC184863

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	44.18	88	71-131	3	20
Benzene	50.00	43.97	88	76-120	3	20
Trichloroethene	50.00	50.14	100	78-120	5	20
Toluene	50.00	46.05	92	79-120	7	20
Chlorobenzene	50.00	44.70	89	80-120	7	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	101	77-130
Toluene-d8	103	80-120
Bromofluorobenzene	98	80-120

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MFG, Inc.

Purgeable Organics by GC/MS			
Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	73956
Units:	ug/L	Analyzed:	07/23/02
Diln Fac:	1.000		

Type: BS Lab ID: QC184896

Analyte	Spiked	Result	#REC	Limite
1,1-Dichloroethene	50.00	45.38	91	71-131
Benzene	50.00	44.45	89	76-120
Trichloroethene	50.00	47.44	95	78-120
Toluene	50.00	46.03	92	79-120
Chlorobenzene	50.00	49.16	98	80-120

Surrogate	#REC	Limite
Dibromofluoromethane	97	80-121
1,2-Dichloroethane-d4	106	77-130
Toluene-d8	91	80-120
Bromofluorobenzene	98	80-120

Type: BSD Lab ID: QC184897

Analyte	Spiked	Result	#REC	Limite	RPD	Lim
1,1-Dichloroethene	50.00	40.84	82	71-131	11	20
Benzene	50.00	44.83	90	76-120	1	20
Trichloroethene	50.00	48.13	96	78-120	1	20
Toluene	50.00	45.54	91	79-120	1	20
Chlorobenzene	50.00	48.43	97	80-120	1	20

Surrogate	#REC	Limite
Dibromofluoromethane	94	80-121
1,2-Dichloroethane-d4	109	77-130
Toluene-d8	103	80-120
Bromofluorobenzene	92	80-120

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Gasoline Oxygenates by GC/MS			
Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	07/16/02
Units:	ug/L	Received:	07/17/02
Diln Fac:	1.000		

Field ID: B8-GW Batch#: 73907
 Type: SAMPLE Analyzed: 07/22/02
 Lab ID: 159713-001

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	20
MTBE	14	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5

Surrogate	REC	Limite
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	113	77-130
Toluene-d8	95	80-120
Bromofluorobenzene	100	80-120

Field ID: B9-GW Batch#: 73907
 Type: SAMPLE Analyzed: 07/22/02
 Lab ID: 159713-002

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	20
MTBE	37	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5

Surrogate	REC	Limite
Dibromofluoromethane	101	80-121
1,2-Dichloroethane-d4	114	77-130
Toluene-d8	93	80-120
Bromofluorobenzene	98	80-120

Field ID: B10-GW Batch#: 73907
 Type: SAMPLE Analyzed: 07/22/02
 Lab ID: 159713-003

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	20
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5

Surrogate	REC	Limite
Dibromofluoromethane	104	80-121
1,2-Dichloroethane-d4	114	77-130
Toluene-d8	97	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
 RL= Reporting Limit
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 MFG, Inc.



Gasoline Oxygenates by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	07/16/02
Units:	ug/L	Received:	07/17/02
Diln Fac:	1.000		

Field ID:	B11-GW	Batch#:	73907
Type:	SAMPLE	Analyzed:	07/23/02
Lab ID:	159713-004		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	20
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5

Surrogate	REC	Limit
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	116	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-120

Field ID:	B12-GW	Batch#:	73907
Type:	SAMPLE	Analyzed:	07/23/02
Lab ID:	159713-005		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	20
MTBE	1.2	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5

Surrogate	REC	Limit
Dibromofluoromethane	101	80-121
1,2-Dichloroethane-d4	118	77-130
Toluene-d8	97	80-120
Bromofluorobenzene	102	80-120

Field ID:	B13-GW	Batch#:	73956
Type:	SAMPLE	Analyzed:	07/23/02
Lab ID:	159713-006		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	20
MTBE	0.9	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5

Surrogate	REC	Limit
Dibromofluoromethane	101	80-121
1,2-Dichloroethane-d4	110	77-130
Toluene-d8	92	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
 RL= Reporting Limit
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Gasoline Oxygenates by GC/MS			
Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	07/16/02
Units:	ug/L	Received:	07/17/02
Diln Fac:	1.000		

Field ID: B14-GW Batch#: 73956
 Type: SAMPLE Analyzed: 07/23/02
 Lab ID: 159713-007

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	20
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5

Surrogate	%REC	Limit
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	117	77-130
Toluene-d8	98	80-120
Bromofluorobenzene	100	80-120

Type: BLANK Batch#: 73907
 Lab ID: QC184720 Analyzed: 07/22/02

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	20
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5

Surrogate	%REC	Limit
Dibromofluoromethane	92	80-121
1,2-Dichloroethane-d4	107	77-130
Toluene-d8	94	80-120
Bromofluorobenzene	100	80-120

Type: BLANK Batch#: 73907
 Lab ID: QC184721 Analyzed: 07/22/02

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	20
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5

Surrogate	%REC	Limit
Dibromofluoromethane	95	80-121
1,2-Dichloroethane-d4	107	77-130
Toluene-d8	92	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
 RL= Reporting Limit
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Gasoline Oxygenates by GC/MS			
Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	07/16/02
Units:	ug/L	Received:	07/17/02
Diln Fac:	1.000		

Type: BLANK
 Lab ID: QC184898

Batch#: 73956
 Analyzed: 07/23/02

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	20
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5

Sulfonate	REC	Limit
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	111	77-130
Toluene-d8	95	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
 RL= Reporting Limit
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Gasoline Oxygenates by GC/MS

Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	73907
Units:	ug/L	Analyzed:	07/22/02
Diln Fac:	1.000		

Type: BS Lab ID: QC184718

Analyte	Spiked	Result	%REC	Limits
MTBE	50.00	45.19	90	49-144

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	110	77-130
Toluene-d8	97	80-120
Bromofluorobenzene	89	80-120

Type: BSD Lab ID: QC184719

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	50.00	43.79	88	49-144	3	21

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-121
1,2-Dichloroethane-d4	113	77-130
Toluene-d8	99	80-120
Bromofluorobenzene	93	80-120

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Gasoline Oxygenates by GC/MS			
Lab #:	159713	Location:	Avis-Oakland
Client:	McCulley, Frick & Gilman, Inc.	Prep:	EPA 5030B
Project#:	030013	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	73956
Units:	ug/L	Analyzed:	07/23/02
Diln Fac:	1.000		

Type: BS Lab ID: QC184896

Analyte	Spiked	Result	EREC	Limits
MTBE	50.00	43.91	88	49-144

Surrogate	EREC	Limits
Dibromofluoromethane	97	80-121
1,2-Dichloroethane-d4	106	77-130
Toluene-d8	91	80-120
Bromofluorobenzene	98	80-120

Type: BSD Lab ID: QC184897

Analyte	Spiked	Result	EREC	Limits	RPD	Lim
MTBE	50.00	42.08	84	49-144	4	21

Surrogate	EREC	Limits
Dibromofluoromethane	94	80-121
1,2-Dichloroethane-d4	109	77-130
Toluene-d8	103	80-120
Bromofluorobenzene	92	80-120

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