PRELIMINARY REPORT ON REMEDIATION ACTIVITIES
COOPERVISION, INC.
711 NORTH ROAD
SCOTTSVILLE, NEW YORK 14546

By

Haley & Aldrich of New York
Rochester, New York

For

Wallace King Marraro & Branson, PLLC
Washington, DC

File No. 70665-006
April 2002

UNDERGROUND
ENGINEERING &
ENVIRONMENTAL
SOLUTIONS

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HALEY & ALDRICH

10 April 2002
File No. 70665-006

Wallace King Marraro & Branson, PLLC
1735 New York Avenue, N.W
Washington, DC 20006

Attention: Mr. Chris Marraro, Esq.

Subject: Preliminary Report on Remediation Activities
CooperVision, Inc.
711 North Road
Scottsville, New York 14546

Ladies and Gentlemen:

Haley & Aldrich is pleased to submit this report documenting field activities and preliminary results associated with remediation completed under a Voluntary Remediation Agreement (Agreement) between the New York State Department of Environmental Conservation (NYSDEC) and CooperVision Corporation at the above-listed property. The work completed for this Agreement is in conformance with the NYSDEC-approved Revised Remediation Work Plan dated 5 February 2001.

In summary, the remediation activities reported herein are intended to address groundwater contamination issues at the site. Goals of the remediation activities are described in detail in Section 4 of the Revised Remediation Work Plan dated 5 February 2001. The remediation construction described in the work plan has been completed. Ongoing monitoring, also described in the work plan, will continue on a quarterly basis at the site. Initial monitoring results are also summarized herein.

Please contact the undersigned with any questions you may have and thank you for the opportunity to continue assisting with this project.

Sincerely yours,
HALEY & ALDRICH OF NEW YORK

Susan L. Boyle
Senior Engineer

Vincent B. Dick
Vice President

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EXECUTIVE SUMMARY

The CooperVision facility is located at 711 North Road, Scottsville, New York . Past manufacturing processes prior to CooperVision presence at the site appear to have contaminated soil and groundwater on portions of the site with TCA and its biodegradation breakdown products. Through review of investigative reports prepared for the facility by Haley & Aldrich and others, NYSDEC notified CooperVision that it was eligible for participation in the Voluntary Cleanup program.

The NYSDEC determined that additional investigations were necessary under the VCA and an Investigative Work Plan dated 8 January 1999 (with Addenda dated 18 March 1999 and 3 September 1999) was submitted to, and approved by, the NYSDEC. A Voluntary Cleanup Agreement for investigation of the site was signed by CooperVision and NYSDEC dated 6 April 1999.

CooperVision completed the work described by the 1999 Investigative Work Plan and the results were summarized in a report dated May 2000. The results of the investigation showed that source residues at the CooperVision facility existed only in limited areas. The highest soil concentrations detected at that time were slightly above NYSDEC 4046 TAGM levels. TCA concentrations in groundwater exceeded NYSDEC groundwater standards locally near the source and up to 240 $\pm$ feet downgradient.

A VCA Remediation Work Plan (dated February 2001) was submitted to, and approved by, the NYSDEC. This Work Plan described implementation of enhanced bioremediation via injection of a liquid substrate (Hydrogen Release Compound, HRC) as the chosen remediation alternative. HRC is a food-grade, polylactate ester that is designed to enhance biodegradation in the subsurface. The remediation approached involved HRC being injected in a grid-type pattern directly into the portions of the subsurface impacted by the site contaminants. The Remediation Work Plan described the design developed for injection and subsequent monitoring of the remediation alternative. This design was prepared by Haley & Aldrich and Regenesis, the developer and manufacturer of HRC. The NYSDEC provided input throughout the design process and approved the final injection design. This Work Plan became the final version attached to a VCA for remediation signed by the NYSDEC dated 31 May 2001.

As described in this report, the HRC was installed during July to September 2001. The difficult geologic conditions (dense glacial tills) present at the CooperVision facility presented challenges during the HRC injection activities, but the full design amount of HRC was injected into the subsurface at the designated locations successfully.

The post-injection monitoring program described in the Remediation Work Plan is ongoing. Initial monitoring data indicates conditions necessary for biodegradation of site contaminants are being produced. The progress of the remediation will continue to be assessed through implementation of the approved groundwater monitoring program over the next 12 to 24 months.

This document provides the documentation of remediation construction (injection) and Engineer's Statement that the construction was carried out according to the work plan, as required by the VCA and NYSDEC.

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I. INTRODUCTION

1.1 Project Background

The CooperVision facility is located on a parcel of land of about 5.4 acres. The property includes an original building with additions having a total area of approximately 50,000 sq. ft. Soil and groundwater on some portions of the property have been found to be impacted primarily by 1,1,1-trichloroethane ("TCA"), most probably from activities of a former owner who, beginning in the mid-1970's, occupied the property and used it for manufacturing.

CooperVision, Inc. applied to the New York State Department of Environmental Conservation ("NYSDEC") for participation in the State's Voluntary Cleanup ("VC") Program for CooperVision's facility at 711 North Road, Scottsville, New York (see Figure 1). By letter dated 21 July 1998, NYSDEC notified CooperVision that it was eligible for participation in the VC program. In determining eligibility, NYSDEC reviewed a report prepared by Haley & Aldrich, dated 23 April 1998, describing previous investigations of the site. NYSDEC's review comments, dated 22 July 1998, contained requests for certain additional information and investigations. On 10 August 1998, and again on 1 September 1998, CooperVision submitted to NYSDEC written responses to the Agency's comments.

Upon being deemed an eligible Volunteer, an Investigative Work Plan dated 8 January 1999 was submitted to NYSDEC and described investigations that CooperVision would conduct in response to NYSDEC's review comments. Work Plan Addenda dated 18 March 1999 and 3 September 1999 were approved by the NYSDEC. The Work Plan became an appendix to a Voluntary Cleanup Agreement (VCA) for implementation of the investigation described herein, entered into between NYSDEC and CooperVision.

CooperVision completed the work described by the 1999 Investigative Work Plan and the results were summarized in a report dated May 2000. The results of the investigation showed that source residues at the CooperVision facility existed only in limited areas. The highest soil concentrations detected at that time were slightly above NYSDEC 4046 TAGM levels. TCA concentrations in groundwater exceeded NYSDEC groundwater standards locally near the source and up to 240 $\pm$ feet downgradient.

The investigation report evaluated several potential remediation approaches and ultimately recommended enhancing existing bioremediation occurring in the subsurface at the site, via injection of a food-grade substrate. Such chemical substrates are intended to enhance conditions for growth and function of anaerobic micro-organisms that promote reductive dechlorination of site chlorinated solvents such as TCA and related site compounds. The substrate recommended by the report was Hydrogen Release Compound (HRC), a commercially available slow-release substrate specifically formulated for application to remediation sites such as CooperVision.

Remediation design was provided to NYSDEC in a work plan dated February 2001, [amended by comment from NYSDEC from submittals dated 23 June 2000 and 24 July 2000], and the approved version was submitted by NYSDEC for public comment 18 June 2001. This work plan became the final version attached to the remediation VCA signed by the NYSDEC dated 31 May 2001. The remediation work plan was implemented through injection and well drilling activities performed between July and September 2001, and through subsequent initial performance monitoring (October 2001 and January 2002). This report provides documentation

required by the VCA describing the remediation implementation. An Engineer's Statement affirming performance of the remediation "construction" (actually injection and related activities as described above) is included at the end of this report.

1.2 Project Objectives

The field activities and performance monitoring activities described in this report were performed as described in the VCA Remediation Work Plan (revised version dated February 2001). The project objectives include:

- Implement the NYSDEC-approved remediation technology, enhanced bioremediation, through installation of Hydrogen Release Compound (HRC) in the subsurface surrounding the facility.
- Install the HRC as described in the design portion of the February 2001 Work Plan. If deviations from the design were determined to be necessary, interface with the NYSDEC to determine alternate approach(es) acceptable to both NYSDEC and CooperVision.
- Install two additional shallow monitoring wells to augment the remediation performance monitoring network.
- Implement the groundwater monitoring program to assess remediation performance, as described in the Work Plan.

II. HRC REMEDIATION DESIGN AND IMPLEMENTATION

2.1 HRC Background

HRC is a proprietary, environmentally safe, food quality, polylactate ester specially formulated for slow release of lactic acid upon hydration. The HRC is injected into the subsurface contaminant plume and then left in place where it passively works to stimulate contaminant degradation.

The process by which HRC operates is a complex series of chemical and biologically mediated reactions. Initially, sugars contained in HRC stimulate aerobic population "overgrowth" that ultimately consumes oxygen and promotes onset or enhancement of anaerobic conditions. When in contact with subsurface moisture, the HRC slowly releases lactic acid. Indigenous anaerobic microbes metabolize the lactic acid producing consistent low concentrations of dissolved hydrogen. The resulting hydrogen is then used by other subsurface microbes (reductive dehalogenators) to strip solvent molecules of their chlorine atoms and allow for further biological degradation. HRC can remain active in the subsurface for an extended period of time, approximately one year, a time period that varies with site conditions.

2.2 HRC Design

As summarized in the Remediation Work Plan, the HRC injection design was based on the results of site groundwater quality from the October 1999 and prior sampling events and was designed to be injected into the subsurface on a grid-type pattern in four areas of the site. Differences in the amount of HRC designed for each area were due to variations in site-specific conditions in each of the areas, the most important variable being contaminant concentrations. Detailed information about the design methodology can be found in the Remediation Work Plan (February 2001). The planned injection scenario for each area is summarized below and Figure 2 shows the locations of these areas.

Area 1: This area contains the apparent source zone and is located outside the compressor room door. For design purposes, this area is defined as approximately 35 feet by 55 feet. HRC was designed to be injected in approximately 40 points on a 7-foot spaced grid, from 5 to 38 feet below ground surface (bgs) for a total of approximately 165 lbs per hole. Upon layout of the grid pattern in this area at the start of field activities, slight modifications in the grid spacing were needed to accommodate surface structures and obstructions. NYSDEC requested additional injection points to fill in apparent gaps in the grid after initial layout and the final grid included 43 injection points. The final grid pattern is shown in Figure 2.

Area 2: This area is located adjacent to loading dock #2, in the vicinity of MW-3 and MW-403. For design purposes this area was defined as approximately 35 by 40 feet. HRC was designed to be injected in approximately 16 points on a 10-foot spaced grid, from 5 to 25 feet bgs for a total of approximately 40 lbs per hole. Again, slight adjustments were made in the field when layout was performed to adjust to surface obstructions. The final injection grid still included 14 points, but at the adjusted locations shown in Figure 2.

Area 3: This area is a "sub-area" of Area 1, located south of the Molding Stores room. For design purposes this area was defined as approximately 30 feet by 20 feet. HRC was designed to be injected in approximately 7 points on a 10-foot spaced grid from 5 to 38 feet bgs. for a total of approximately 80 lbs per hole. Field adjustments on final layout resulted in injection

locations shifting to avoid a main electrical conduit that passes by Area 3 and a small concrete step landing outside the Molding Stores room.

Area 4: This area is a sub-area associated with Area 2, located east of the Molding Stores room. This injection consisted of a staggered line of four injection points parallel to the building, spaced approximately 7 feet apart. HRC injection was planned to be from 5 to 36 feet bgs for a total of approximately 62 lbs per hole.

The HRC remedial program for Area 1, as well as the other areas, was designed as a single injection event. Potential future injections will depend on the results that are observed from the first injection. A minimum of 12 to 18 months will be necessary to obtain and evaluate the data to determine the effectiveness of the HRC toward reducing site contaminant concentrations.

3.1 HRC Injection Activities

The HRC injection activities took place from 24 July through 19 September 2001. Haley & Aldrich provided field oversight of all contractor activities for the injection program, and itself performed sampling required for performance monitoring. NYSDEC provided agency oversight during the majority of field activities and was notified at the site or by phone of changes, delays and/or modifications in the program. All material changes to the program were reviewed and approved by NYDEC prior to implementation. Sampling events were also attended by NYSDEC for purposes of splitting samples from selected wells.

Although challenges due to the difficult geologic conditions (very dense glacial tills) were encountered, the full designed amount of HRC was injected in the subsurface, plus a small amount of additional HRC based on the final grid layout approved in the field by NYSDEC. Figure 2 shows the labeled locations of each of the HRC injection points. Tables 1 through 4 summarize the pounds of HRC (loading rates) and the injection interval at each location. Deviations from the designed loading rates and injection intervals were minimal, and are described in the sections below.

Because of the difficult drilling conditions, several variations of the design drilling/injection were attempted throughout the duration of the injection program. Efforts have been made to document site methods used for remediation construction in this report in a relatively complete, succinct manner. Difficulties encountered during drilling and injection necessitated the need for the subcontractor to move back and forth between the various injection areas, therefore, as shown in Tables 1 through 4, each area was not necessarily completed in a chronological manner.

Inland Pollution Services (IPSI) was the original selected subcontractor for the HRC injection work. Because of unacceptably slow progress, on 7 August 2001, CooperVision and IPSI mutually agreed to break the service contract after only a portion of the total injection program was completed. IPSI was replaced by a team consisting of Nothnagle Drilling and Zebra Environmental who resumed the drilling/injection activities on 27 August 2001 and carried the remainder of field installation through its completion.

Past drilling experience at the site had indicated the injection method typically used for HRC (Geoprobe-type direct push methods) would not be successful. Both teams of subcontractors who performed portions of the injection work attempted field tests with powerful Geoprobe rigs (Zebra on 8 July 2000 and IPSI 24 July 2001) but could not attain the target depths. Therefore, rotary drilling methods were necessary to inject the HRC to the full target depths.

After IPSI provided field testing of mud and air rotary methods, bentonite mud rotary techniques were selected because of the unacceptably high levels of dust produced at the ground surface by the air rotary methods. The original HRC injection method utilized a five-foot long, 1.5 inch diameter PVC screen/riser sealed in a pre-drilled hole with a bentonite plug at the ground surface. The HRC was injected in five-foot intervals starting at the target depth with the PVC being retracted toward the ground surface as injection continued (tremmie injection). The bentonite plug failed on several locations allowing injected HRC to flow from the hole onto the ground surface. A 20-foot length of PVC screen was then used to eliminate the need to break the bentonite seal during retraction. The NYSDEC approved this plan in the field on 3 August 2001. IPSI used this drilling method for injection of all locations in Area 2 and one location in Area 3.

Nothnagle and Zebra Environmental mobilized to the site on 27 August 2001 and began drilling using air rotary methods (modified over that originally used by IPSI) with surface dust collection/mitigation procedures. The HRC was injected by Zebra using the Rupe pump through Nothnagle's drilling stem after the target depth was reached, eliminating the need for injection through PVC tremmie piping. NYSDEC approved this plan in the field on 29 August 2001.

At some locations, cross-hole communication appeared to occur when drilling of a new location was performed near certain recently injected holes. Apparent pneumatic pressure from the air rotary forced HRC out of nearby recently-injected holes. After discussions with NYSDEC and the drillers, mud rotary (no bentonite) was again implemented on 27 August 2001. These methods were used for the remainder of the injection program, with a slight modification required to complete the injection in Area 3 because of relatively high loading rates in this area. To mitigate the problem of "blowback" of HRC and groundwater from the injection holes, several methods for removing the water from the borehole prior to injection were considered. The successful drilling/injection method that was approved and used to complete the drilling and injection of these final locations was as follows: the pilot hole was drilled with a 3 7/8-inch bit () to allow for injections of larger volumes of HRC and allowed an air compressor to "lift" the water from the hole into drums for containment and disposal.

Again, despite the difficult drilling conditions and need for contingency drilling and injection methods, the design-amount of HRC was installed in the subsurface at the locations required. Minor deviations in injection amounts occurred, as summarized below:

Area 1	Two locations (1I1 and 1G1) received additional HRC over the design amount of #lbs per hole (170 and 180 lbs respectively) because excess HRC remained at the completion of injection activities.
Area 2	No deviations from the design were necessary.
Area 3	After injection in this area had been completed, air rotary drilling methods in adjacent Area 4 caused blowback at hole 3B2. The drilling methods were consequently changed back to mud rotary.
Area 4	All holes were injected with the required 62 lbs. of HRC with the exception of location 4B1. Although the target depth (approximately 36 feet bgs) was reached during drilling, some caving apparently obstructed the bottom 4 ft of the hole and the injection rods were only capable of reaching a depth of 32 feet

bgs. A total of 58 lbs. of HRC was injected into the hole. Attempts were made to force injection of the remaining design amount but it blew back to the ground surface.

IV. OTHER NON-INJECTION ACTIVITIES

4.1 Additional Monitoring Well Installation

To better monitor the effectiveness of the HRC injection, two additional monitoring wells were required by the work plan and installed at the site; one immediately east of the molding stores areas near MW-2 (shown as MW-502 on Figure 2) and one approximately 20 feet south of the molding stores area (shown as MW-501 on Figure 2). These wells were installed on 19 and 20 July 2001.

To conform with the Work Plan and as requested by the NYSDEC, separate soil borings were performed on 19 and 20 September 2001 to confirm the monitoring well screens had been installed at the appropriate depths for monitoring site contaminants. Soil samples were obtained and were field screened with a photoionization detector (PID) by Haley & Aldrich personnel. The results of this field screening indicated that the two newly installed wells had been installed at the appropriate depths. The field screening results are shown on boring logs included with the well installation reports in Appendix A.

MW-501 was installed to a depth of approximately 20 feet below ground surface with a screened interval from approximately 15 to 20 feet below ground surface. MW-502 was installed to a depth of approximately 35 feet below ground surface with a screened interval from approximately 30 to 35 feet below ground surface.

Each of the boreholes were drilled with a 2 ¼ in. hollow-stem auger after the top 3 to 4 feet of the locations were hand-augured to check for utilities. As the Monitoring Well reports in Appendix A indicate, the well risers and screens consist of 1.25 inch PVC and the well screens are 5 feet in length.

The newly installed wells were developed several times between the time they were installed and when they were sampled, using a Watera footvalve and tubing.

4.2 Baseline Groundwater Sampling

Approximately one week prior to the HRC injection (July 2001), the newly installed wells and the subset of existing wells indicated in the Remediation Work Plan wells were sampled to provide data on pre-injection baseline conditions. The sampled wells were: MW-202, MW-203, MW-204, MW-205, MW-2, MW-304, MW-401, MW-402, MW-3, MW-501, MW-502, OWD-302D, and OWS-302S.

Prior to sampling, the wells were purged using Water footvalves and tubing. Field parameters were monitored for stabilization during the purging, including dissolved oxygen, pH, Eh, temperature, and conductivity. When the parameters stabilized, groundwater samples were collected using disposable bailers.

Laboratory analyses included dissolved gases (methane, ethane, and ethene), VOCs using EPA Method 8260, anions (sulfate, sulfide, nitrate, nitrite, chloride, and alkalinity), cations (ferrous and total iron), and metabolic acids (lactic, acetic, proprionic, pyruvic, and butyric - breakdown products of HRC). Field measurements of carbon dioxide, ferrous iron, and alkalinity were obtained at the wellhead. A Groundwater Sampling Record for this sampling event, which contains field parameter measurement data, is included in Appendix B.

Laboratory analyses were completed at Columbia Analytical Services (CAS) in Rochester, New York except for the metabolic acids which were analyzed by Keystone Labs in Newton, Iowa because Keystone has the capabilities to attain lower detection limits. Results of these analyses are summarized in Tables 5 through 9 with separate tables for each of the various site area designations (upgradient , source area, mid-gradient, downgradient). Analytical laboratory reports are included in Appendix C.

4.3 Post-Injection Groundwater Monitoring Results

At the date of the writing of this report, three rounds of post-injection groundwater data were available for review: September and October 2001, and January 2002. These three events were performed in accordance with the Remediation Groundwater Monitoring Schedule (Remediation Work Plan, February 2001) and were performed using the sampling methods described in the work plan and used for the baseline sampling event. The groundwater parameters obtained during these three post-injection events were:

- September 2001 – Field parameters only obtained.
- October 2001 – First quarter sampling. VOCs, dissolved gases, cations/anions, field parameters obtained.
- January 2002 – Second quarter sampling. VOCs, dissolved gases, HRC components, and field parameters obtained. Wells MW-501 and MW-3 could not be sampled during the January event because surface runoff prevented access to the well riser of MW-501, and well MW-3 could not be located due to snow cover. These two wells were sampled on 15 February 2002.

The results of the VOC analyses are summarized in Tables 5 through 9. Time series plots of site contaminants and biodegradation breakdown products are also shown on these tables. The remainder of the groundwater analytical parameters are summarized on Table 9. Groundwater sampling records for each event are included in Appendix B.

As the HRC disperses into the aquifer, geochemical shifts occur which indicate production of the necessary conditions for biodegradation of site contaminants. These geochemical shifts include: increases in dissolved organic carbon and organic acids (HRC components), decreases in dissolved oxygen and redox potential as anaerobic conditions are produced, and decreases/increases of certain biodegradation parent/daughter compound combinations, such as sulfate/sulfite, and total iron (Fe^{+3})/dissolved iron (Fe^{+2}).

Preliminary data received to date indicate these geochemical shifts are occurring in the aquifer. Because an aquifer is not a perfect closed or homogeneous system, parallel responses in geochemistry shifts are not expected at all locations simultaneously. Regenesis, the developer and manufacturer of HRC, indicates sites with similar geologic conditions to those at the CooperVision facility have required relatively longer amounts of time for development of the necessary conditions across the treatment area, compared with sites with more permeable geologic conditions.

The data received to date indicates the anaerobic conditions and electron donor availability necessary for site contaminant degradation have commenced in the subsurface. Specific examples include:

- **Organic Acids (direct measure of HRC components and organic acids produced by microbes utilizing HRC):**
  - MW-205 – lactic acid (23.6 mg/L) and acetic acid (179 mg/L) in January 2002.
  - MW-3 – acetic acid (14 mg/L), propionic acid (15 mg/L) and butryic acid (7.6 mg/L) in February 2002**.**

- **Dissolved organic carbon (indirect measure of organic acids generated from dissolution of HRC):**
  - MW-501 - increased from 3.38 to 141 mg/L (from July to October 2001).
  - MW-502 - increased from 5.21 to 26.7 mg/L (from July to October 2001).

- **Dissolved oxygen (DO) and redox potential (indications of anaerobic conditions):**
  - MW-401 – DO decreased 0.42 to 0.15 mg/L and redox decreased from –42 to –77 mV (from July 2001 to January 2002).
  - MW-205 – Redox decreased from –53 to –88 mV (from July 2001 to January 2002)
  - Many other wells are maintaining the relatively low DO and redox values present prior to HRC injection.

- **Sulfate (decreases as anaerobic conditions are produced):**
  - MW-501 – decreased from 40.2 to 21.5 mg/L
  - MW-502 – decreased from 183 to 56.2 mg/L

- **Dissolved Iron (increases as anaerobic conditions are produced):**
  - MW-205 – increased from 0.2 to 2.6 mg/L
  - MW-401 – increased from 1.8 to 2.9 mg/L

Continued evaluation of the HRC performance data will be performed as additional rounds are obtained, and will be reported in monthly status reports required under the VCA.

It is too early to expect to see a substantial effect of the HRC injection on VOC concentrations. The data do indicate changes are occurring, evidenced by decreases in the parent compound concentrations (1,1,1-TCA) and increases in daughter compound concentrations (1,1-DCA), as seen in the groundwater data for some of the source and downgradient wells OWS-302S, MW-205 and OW-401.

Low level detections of site contaminants were detected at downgradient well MW-204 during the July and October 2001 and January 2002 sampling events. These detections included maximum values of 0.022 mg/L of 1,1,1-Trichloroethane, 0.019 of 1,1-dichloroethane, and 0.015 of 1,1-dichloroethene during the October 2001 event. Analytical results from the January 2002 event indicate decreasing concentrations since October 2001. A summary of the analytical results are shown on Tables 5 through 8 and Figures 4 through 9. CooperVision will continue to monitor and evaluate these detections as the remediation program continues. Downgradient well MW-203 remains non-detect for all site contaminants.

4.4 Groundwater Data Anomalies

Several compounds that are not site compounds of concern were detected at low levels during past groundwater sampling events. In particular, some of these compounds were detected in the NYSDEC split samples obtained during the October 2001 sampling event and analyzed by

Lozier Laboratories for the NYSDEC. Because of these anomalies, Denis Conley, data validator with Haley & Aldrich, reviewed the October and July data sets to assist with evaluation of the potential source of these detections. The results of the data review are summarized in the following sections.

In general, the results of the NYSDEC split samples are in agreement with the samples analyzed at CAS with the exception of the detection of various BTEX-type compounds at levels ranging from 7 to 46 ppb in the split sample for MW-501. Because these compounds were not present in the sample analyzed by CAS, these compounds were never used in any site manufacturing process, and there is no history of these compounds as contaminants in the subsurface at the CooperVision site, their presence at the site is suspect. Based on review of laboratory data, it appears these detections are a result of either laboratory instrument carryover contamination or impact during sample storage, transportation. Toluene detected in the October NYSDEC split sample at 0.0021 ppb may be attributed to either laboratory contamination or to impact from gasoline during sample storage or transportation.

Low level detections of methylene chloride (0.0063 ppm in well MW-502 in July 2001, and 0.18 ppm in OW-401 in October 2001) appear to be indicative of low level laboratory contamination for this target compound. The reported detection of 1.1 ppm in well MW-502 in the October 2001 sample is most likely due to the 100 fold dilution of the sample with laboratory reagent water. The actual concentration detected in the diluted sample was 0.011 ppm and is probably present due to this low level laboratory contamination.

The detection of acetone at 0.072 ppb and methyl ethyl ketone (0.011 ppm in MW-502 July 2001 sample and 0.005 ppm in MW-403 October 2001 NYSDEC split) also appear to be due to laboratory contamination as these compound are common contaminants of methanol reagents used in the preparation of the project samples.

4.5 Waste Management

Soil cuttings waste was generated during the drilling process. Soil cuttings generated during the mud drilling were settled out of the drilling fluid as much as possible. The waste soils were then hauled to a lined roll-off container staged on site, using a poly-lined bucket on a loader. The contents of the roll-off were shipped to Model City, New York for proper disposal.

Waste drilling fluid and groundwater generated during the drilling/injection process was containerized in drums. The drums were temporarily staged on the concrete pad between Areas 3 and 4 until they were properly disposed of off-site by Waste Technologies Services.

Manifests from the disposal of the wastes are included in Appendix D.

V. ENGINEERS STATEMENT

On behalf of Haley & Aldrich of New York, the undersigned state that the remediation work described in this document "Preliminary Report on Remediation Activities, CooperVision, Inc.", dated 10 April 2002 , was conducted in conformance with:

- Voluntary Cleanup Agreement (Remediation) dated 31 May 2001;
- "REVISED CooperVision VCA Remediation Work Plan, dated 5 February 2001, and;
- Field modifications made to the Work Plan and approved by the NYSDEC during remediation activities, as summarized in the text of this report.

This report is a true and accurate summary of the work performed. Haley & Aldrich of New York was the firm responsible for the day to day performance of activities that comprised this site's remediation. The undersigned certify that the Remediation Work Plan was implemented and that construction activities were completed in accordance with the Department-approved Remedial Work Plan and were personally witnessed by me (or by a person under my direct supervision).

Vincent B. Dick, Project Manager
Vice President Haley & Aldrich

Paul M. Tornatore, P.E.
Vice President, Haley & Aldrich

APPENDIX A

OBSERVATION WELL INSTALLATION REPORTS AND SOIL BORING REPORTS

OBSERVATION WELL INSTALLATION REPORT

HALEY & ALDRICH

Well No. MW-502
Boring No.

PROJECT	COOPERVISION VCA/MNA PROJECT	**H&A FILE NO.**	70665-006
LOCATION	711 NORTH ROAD, SCOTTSVILLE, NEW YORK	**PROJECT MGR.**	V. DICK
CLIENT	COOPERVISION, INC.	**FIELD REP.**	N. CASE, A. BAUDO
CONTRACTOR	IPSI	**DATE INSTALLED**	7/19/2001
DRILLER	J. NERI	**WATER LEVEL**	

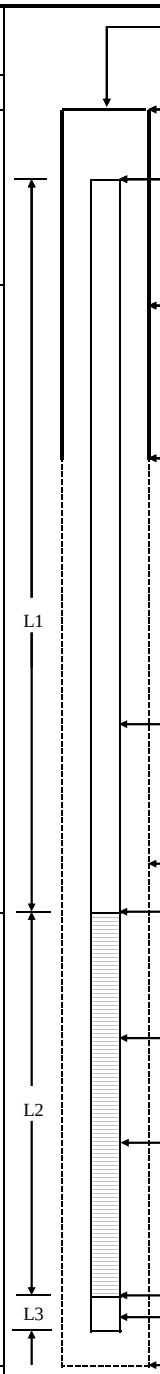
Ground El. ____ ft
El. Datum ____

Location SEE PLAN

☐ **Guard Pipe**
☑ **Roadway Box**

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL
	0.0 FT.
	CEMENT
2.0 FT.	
	HYDRATED BENTONITE
	27.0 FT.
	30.0 FT. QUARTZ SAND
35.0 FT.	

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)



(Not to Scale)

Type of protective cover/lock: ROADBOX

Height/Depth of top of guard pipe/roadway box above/below ground surface: FLUSH ft

Height/Depth of top of riser pipe above/below ground surface: 0.8 ft

Type of protective casing: N/A
- **Length:** N/A ft
- **Inside Diameter:** N/A in

Depth of bottom of guard pipe/roadway box: 0.8 ft

Type of Seals	Top of Seal (ft)	Thickness (ft)
Concrete	0.0	2.0
Bentonite Seal	2.0	27.0

Type of riser pipe: PVC
- **Inside diameter of riser pipe:** 1.5 in
- **Type of backfill around riser:** SEE LEFT

Diameter of borehole: 8.0 in

Depth to top of well screen: 30.0 ft

Type of screen: PVC
- **Screen gauge or size of openings:** 0.01 in
- **Diameter of screen:** 1.5 in

Type of backfill around screen: QUARTZ SAND

Depth of bottom of well screen: 35.0 ft

Bottom of Silt trap: -- ft

Depth of bottom of borehole: 35.0 ft

____ ft (Riser Pay Length (L1)) + ____ ft (Length of screen (L2)) + ____ ft (Length of silt trap (L3)) = ____ ft (Pay length)

COMMENTS:

Form # 3010

OBSERVATION WELL INSTALLATION REPORT

HALEY & ALDRICH

Well No. MW-501
Boring No.

PROJECT	COOPERVISION VCA/MNA PROJECT	**H&A FILE NO.**	70665-006
LOCATION	711 NORTH ROAD, SCOTTSVILLE, NEW YORK	**PROJECT MGR.**	V. DICK
CLIENT	COOPERVISION, INC.	**FIELD REP.**	N. CASE, A. BAUDO
CONTRACTOR	IPSI	**DATE INSTALLED**	7/20/2001
DRILLER	J. NERI	**WATER LEVEL**	

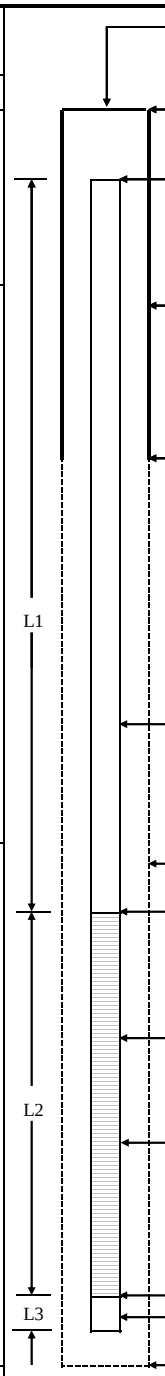
Ground El. ____ ft
El. Datum ____

Location SEE PLAN

☐ **Guard Pipe**
☑ **Roadway Box**

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL
	0.0 FT.
	CEMENT
2.0 FT.	
	HYDRATED BENTONITE
18.0 FT.	
	QUARTZ SAND
25.0 FT.	

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)



Type of protective cover/lock: ROADBOX

Height/Depth of top of guard pipe/roadway box above/below ground surface: FLUSH ft

Height/Depth of top of riser pipe above/below ground surface: 0.3 ft

Type of protective casing: N/A
Length: N/A ft
Inside Diameter: N/A in

Depth of bottom of guard pipe/roadway box: 0.8 ft

Type of Seals	Top of Seal (ft)	Thickness (ft)
Concrete	0.0	2.0
Bentonite Seal	2.0	18.0

Type of riser pipe: PVC
Inside diameter of riser pipe: 1.5 in
Type of backfill around riser: SEE LEFT

Diameter of borehole: 8.0 in

Depth to top of well screen: 20.0 ft

Type of screen: PVC
Screen gauge or size of openings: 0.01 in
Diameter of screen: 1.5 in
Type of backfill around screen: QUARTZ SAND

Depth of bottom of well screen: 25.0 ft

Bottom of Silt trap: -- ft

Depth of bottom of borehole: 25.0 ft

(Not to Scale)

____ ft (Riser Pay Length (L1)) + ____ ft (Length of screen (L2)) + ____ ft (Length of silt trap (L3)) = ____ ft (Pay length)

COMMENTS:

TEST BORING REPORT

BORING NO. 501-A

Page 1 of 1

PROJECT	COOPERVISION HRC INJECTION	**H&A FILE NO.**	70665-006
LOCATION	711 NORTH ROAD, SCOTTSVILLE, NEW YORK	**PROJECT MGR.**	V. DICK
CLIENT	COOPERVISION, INC.	**FIELD REP.**	N. CASE
CONTRACTOR	NOTHNAGLE DRILLING	**DATE STARTED**	9/19/2001
DRILLER	S. LORANTY	**DATE FINISHED**	9/19/2001

Elevation ft. **Datum** **Boring Location**

Item	Casing	Sampler	Core Barrel
Type	Augers	SS	--
Inside Diameter (in.)	4-1/4	2-3/8	--
Hammer Weight (lb.)	--	140	
Hammer Fall (in.)	--	30	

Rig Make & Model: ☑ Truck ☐ Tripod ☑ Cat-Head ☐ Safety ☐ Bentonite
☐ ATV ☐ Geoprobe ☐ Winch ☐ Doughnut ☐ Polymer
☐ Track ☐ Air Track ☐ Roller Bit ☐ Automatic ☑ None
☐ Skid ☐ _____ ☐ Cutting Head

Hammer Type / **Drilling Mud** / **Casing Advance**: Type Method Depth

Drilling Notes:

Depth (ft.)	Sampler Blows per 6 in.	Sample No. & Recovery (in.)	Sample Depth (ft.)	FID (ppm)	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0					0.5		ASPHALT										
	2	6/18	0.5				Loose brown sandy SILT with some gravel, damp.										
	3		2.0	ND			FILL										
	5																
	5	7/24	2.0				Same.										
	3		4.0	ND													
	5																
	8																
5	3	6/24	4.0				Loose, brown sandy SILT, trace gravel, wet.										
	5		6.0	ND			GLACIAL TILL										
	5																
	16				6.0												
	11	16/24	6.0				Dense brown sandy SILT, trace coarse sand, dry.										
	25		8.0														
	30			0.2													
	41																
	24	23/24	8.0				Same as above with gravel, lens from 8.8 to 8.9 ft. and										
	51		10.0				9.3 to 9.4 ft.										
10	59			1.6													
	36																
	16	12/18	10.0				Same as above.										
	58		11.5	1.1													
	122/6																
	34	11/11	12.0	1.2			Same as above.										
	100/5"		12.9														
	36	12/12	14.0	0.2			Same as above, fine sand lens from 14.6 to 14.8 ft.										
15	100/6"		15.0														
	20	24/24	16.0				Same as above.										
	58		18.0	0.7													
	55																
	56																
	8	24/24	18.0				Same as above.										
	35		20.0	ND													
20	46																
	59																
							End of Exploration at 20.0 ft.										
							Notes:										
							1. This boring was completed in association with MW-501. When MW-501 was drilled and constructed, split spoon samples were not collected. This boring was completed at a later date. Approximately 2 ft. from MW-501.										
							2. All samples field screened with a FID.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram: Riser Pipe, Screen, Filter Sand, Cuttings, Grout, Concrete, Bentonite Seal

Summary

Overburden (Linear ft.)	20.0
Rock Cored (Linear ft.)	--
Number of Samples	--

BORING NO. 501-A

Field Tests
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Meduim H - High V - Very High

***NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.**

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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TEST BORING REPORT

BORING NO. 502-A

PROJECT	COOPERVISION HRC INJECTION	**H&A FILE NO.**	70665-006
LOCATION	711 NORTH ROAD, SCOTTSVILLE, NEW YORK	**PROJECT MGR.**	V. DICK
CLIENT	COOPERVISION, INC.	**FIELD REP.**	N. CASE
CONTRACTOR	NOTHNAGLE DRILLING	**DATE STARTED**	9/20/2001
DRILLER	S. LORANTY	**DATE FINISHED**	9/20/2001

Elevation ft. **Datum** **Boring Location**

Item	Casing	Sampler	Core Barrel
Type	Augers	SS	--
Inside Diameter (in.)	4-1/4	2-3/8	--
Hammer Weight (lb.)	--	140	
Hammer Fall (in.)	--	30	

Rig Make & Model: ☑ Truck ☐ Tripod ☑ Cat-Head ☐ Safety ☐ Bentonite
☐ ATV ☐ Geoprobe ☐ Winch ☑ Doughnut ☐ Polymer
☐ Track ☐ Air Track ☐ Roller Bit ☐ Automatic ☑ None
☐ Skid ☐ _____ ☐ Cutting Head

Hammer Type / **Drilling Mud** / **Casing Advance**: Type Method Depth

Drilling Notes:

Depth (ft.)	Sampler Blows per 6 in.	Sample No. & Recovery (in.)	Sample Depth (ft.)	FID (ppm)	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretatio	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0																	
	4		0.0				Loose brown SILT, damp, rootlets.										
	5	6/18	2.0				TOPSOIL										
	4			ND													
	3				2.0												
	3		2.0				Loose brown sandy SILT, trace coarse sand and gravel, damp.										
	3	7/24	4.0				Red gravel in bottom of spoon.										
	16			ND													
	8				4.0												
	2		4.0				Loose brown silty SAND, trace coarse sand, wet.										
5	3	6/24	6.0														
	3			ND													
	5				6.0												
	6		6.0				Dense brown sandy SILT, trace coarse sand, damp.										
	10	16/24	8.0														
	23			ND													
	28																
	3		8.0				Same as above, with increasing density with depth.										
	7	23/24	10.0														
	21			1.3													
10	43																
	10		10.0				Same as above.										
	28	12/18	12.0	ND													
	25																
	19																
	15	11/11	12.0				Same as above with gray limestone rock from 12.5 to 13.0 ft.										
	52		14.0	22.9			and green-gray limestone rock from 13.2 to 13.4 ft.										
	64																
	82																
	28	12/12	14.0				Same as above with gray limestone rock from 15.0 to 15.2 ft.										
15	60		16.0	0.7													
	88																
	100/1																
	40		16.0				Same as above, slightly highr sand composition.										
	45	24/24	18.0	2.1													
	38																
	25																
	3		18.0		18.5		Same as above.										
	6	24/24	20.0	12.1	19.0		Loose brown sandy SILT, trace coarse sand, wet.										
	25				19.6		Medium dense silty SAND with trace coarse sand, damp.										
	44						Dense brown sandy SILT, trace coarse sand, damp.										
20	20		20.0														
	53		22.0	7.8			Same as above.										
	40																
	40																
	15		22.0				Same as above with fine to mdium sand lens from 22.6 to 23.1 ft.										
	40		24.0	19.8			and a fine sand lens from 23.7 to 23.8 ft.										
	28																
	28																
	10		24.0				Same as above.										
	13		26.0	4.0													
	23																
	100/3																
	48		26.0		26.5		Same as above.										
	44		28.0	6.4	27.0		Dense brown fine to medium SAND, trace coarse sand & silt, wet.										
	30						Same as 24.0 to 26.0 ft.										
	27																
	18		28.0				Same as above.										
	31		30.0	7.4													
	35																
	43				29.7												
							Dense brown silty fine SAND, trace coarse sand, damp.										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram: Riser Pipe, Screen, Filter Sand, Cuttings, Grout, Concrete, Bentonite Seal

Summary

Overburden (Linear ft.)	20.0
Rock Cored (Linear ft.)	--
Number of Samples	--

BORING NO. 502-A

Field Tests
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Meduim H - High V - Very High

***NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.**

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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TEST BORING REPORT

HALEY & ALDRICH

BORING NO. 502-A

Depth (ft.)	Sampler Blows per 6 in.	Sample No. & Recovery (in.)	Sample Depth (ft.)	FID (ppm)	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretatio	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
30																	
	18		30.0				Very dense brown sandy SILT, trace coarse sand, damp.										
	55	24/24	32.0	0.3			Gray limestone pieces from 30.0 to 30.4 ft.										
	37																
	66																
	25		32.0				Same as above, but less dense and slightly sander.										
	67	15/15	34.0	1.9			Gray limestone fragments from 33.3 to 33.4 ft.										
	100/3"																
	39		34.0				Dense brown silty fine SAND, trace coarse sand, damp.										
35	52	19/19	36.0	0.4													
	56																
	100/2"																
							End of Exploration at 36.0 ft.										
							Notes:										
							1. This boring was completed in association with MW-502.										
							It was completed 2 ft. south of MW-502.										
40																	
45																	
50																	
55																	
60																	
65																	
70																	

NOTES:

FILE NO. 70665-006

BORING NO. 502-A

***NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.**

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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APPENDIX B

GROUNDWATER SAMPLING RECORDS

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

PROJECT	Coopervision GW Sampling	**H&A FILE NO.**	70665-006
LOCATION	Scottsville, NY	**PROJECT MGR.**	V. Dick
CLIENT	Coopervision	**FIELD REP**	S. Amrozowicz, A. Baudo
CONTRACTOR	none	**DATE**	7/18/01, 7/19/01

GROUNDWATER SAMPLING INFORMATION

Well No.	MW-204	MW-203	OW-304	MW-402	MW-202	MW-2
Water Depth (feet)	6.98	4.40	4.66	3.14	6.98	6.68
Time (hh:mm)	7:30	12:35	14:00	9:10	10:35	7:40
Product	N/A	N/A	N/A	N/A	N/A	N/A
Depth Of Well (feet)	19.56	19.52	13.66	43.28	18.96	11.00
Inside Diameter (inches)	2.0	2.0	1.0	2.0	2.0	1.0
Conversion factor	0.17	0.17	0.08	0.17	0.17	0.08
Standing Water Depth (feet)	12.58	15.12	9.00	40.14	11.98	4.32
Volume Of Water In Well (Gal)	2.14	2.57	0.72	6.82	2.04	0.35
Purging Device	Watera Pump & disp. Tubing	Watera Pump & disp. Tubing	Watera Pump & disp. Tubing	Watera Pump & disp. Tubing	Watera Pump & disp. Tubing	Watera Pump & disp. Tubing
Volume of Bailer/Pump Capacity	N/A	N/A	N/A	N/A	N/A	N/A
Cleaning Procedure	N/A	N/A	N/A	N/A	N/A	N/A
Bails Removed/ Volume Removed (Gal)	3.50	3.50	4.00	5.00	2.50	0.75
Time Purging Started (hh:mm)	8:00	12:50	14:10	9:25	10:55	8:00
Time Purging Stopped (hh:mm)	8:35	13:30	14:35	10:15	11:35	8:45
Sampling Device	disp. Bailer	disp. Bailer	disp. Bailer	disp. Bailer	disp. Bailer	disp. Bailer
Cleaning Procedure	N/A	N/A	N/A	N/A	N/A	N/A
Samples: **VOA** (Time sampled)	8:45	13:45	14:55	10:35	11:45	9:15
Parameters: **Color**	clear	cloudy	light brown	clear	clear	silty
Odor	none	none	none	none	none	none
CO_2 (mg/L)	50.0	25.0	85.0	54.4	11.0	N/A
Alkalinity (mg/L)	180	280	520	140	100	240
Fe^{2+} (mg/L)	1.1	0.0	0.0	1.6	0.0	0.0 *
DO (mg/L)	1.80	1.53	2.18	0.71	2.14	1.41
ReDox (mg/L)	-54	-5	40	-110	-12	122

Remarks: (ie: field filtrations, persons communicated with at site, etc.)

* **Fe test performed next day gave reading of 0.0 mg/L**

Conversions: **1.25" = 0.08** **2" = 0.17** **3" = 0.38** **4" = 0.667** **6" = 1.50** **8" = 2.60**

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

Set 1 of 3

Page 2 of 2

PROJECT	Coopervision GW Sampling	H&A FILE NO.	70665-006
LOCATION	Scottsville, NY	PROJECT MGR.	V. Dick
CLIENT	Coopervision	FIELD REP	S. Amrozowicz, A. Baudo
CONTRACTOR	none	DATE	7/18/01, 7/19/01

GROUNDWATER SAMPLING INFORMATION

Well No.	MW-204												
Time	8:00	8:01	8:06	8:12	8:17	8:20	8:25	8:31	8:35				Next Day
pH	7.37	7.40	7.46	7.51	7.51	7.52	7.51	7.51	7.50				
Conductivity	1.74	1.60	1.62	1.43	1.36	1.31	1.32	1.36	1.38				
Temp, ^{0}C	17.1	17.0	17.6	17.0	16.2	16.2	16.5	17.0	17.6				
Redox	-6	-39	-70	-68	-62	-59	-55	-54	-54				
DO	0.00	6.46	1.62	2.54	0.62	0.38	1.27	1.66	1.80				3.43

Well No.	MW-402												
Time	9:26	9:40	9:45	9:46	9:57	10:05	10:10	10:15					
pH	7.95	7.83	7.72	7.64	7.63	7.60	7.59	7.59					
Conductivity	1.82	1.90	1.91	1.84	1.81	1.84	1.80	1.80					
Temp, ^{0}C	17.6	16.9	17.1	16.4	15.3	16.2	15.0	14.8					
Redox	-118	-116	-114	-114	-118	-117	-113	-110					
DO	1.94	0.72	0.87	0.86	0.53	0.58	0.66	0.71					

Well No.	MW-203												
Time	12:51	12:54	12:57	13:01	13:06	13:12	13:19	13:24	13:27				
pH	8.13	8.18	8.16	8.17	8.16	8.17	8.15	8.15	8.15				
Conductivity	0.42	0.01	0.17	0.42	0.41	0.23	0.40	0.41	0.40				
Temp, ^{0}C	20.5	20.7	21.2	20.1	19.5	19.4	1838.0	19.6	17.8				
Redox	-6	-9	-10	-13	-14	-12	-7	-6	-5				
DO	2.29	1.85	1.68	1.76	1.58	1.70	1.85	1.68	1.53				

Well No.	OW-304												
Time	13:15	13:16	13:17	13:18	13:20	13:25	13:29	13:33					Next Day
pH	7.83	7.84	7.81	7.78	7.77	7.75	7.73	7.71					
Conductivity	1.34	1.01	1.16	1.45	1.44	1.40	1.40	1.43					
Temp, ^{0}C	23.0	23.0	22.7	22.2	22.2	22.2	22.1	22.7					
Redox	15	19	21	26	28	34	38	40					
DO	2.97	3.25	3.55	3.41	3.31	2.51	2.26	2.18					2.25

Well No.	MW-202												
Time	11:00	11:02	11:05	11:09	11:14	11:20	11:26	11:32					
pH	7.89	7.92	7.93	7.94	7.93	7.92	7.90	7.88					
Conductivity	1.55	1.48	1.43	1.40	1.43	1.36	1.34	1.30					
Temp, ^{0}C	18.7	18.7	17.9	16.5	17.0	17.4	17.3	17.7					
Redox	-42	-41	-40	-31	-27	-18	-14	-12					
DO	2.71	2.16	1.66	1.75	1.75	2.21	2.17	2.14					

Well No.	MW-2												
Time	8:05	8:07	8:10	8:12	8:14	8:16	8:25	8:30	8:33	8:37	8:40	8:43	Next Day
pH	7.98	7.98	7.93	7.89	7.85	7.82	7.74	7.76	7.75	7.75	7.78	7.78	
Conductivity	N/A	0.06	0.03	0.08	0.75	0.75	0.60	0.68	0.70	0.71	0.73	0.7	
Temp, ^{0}C	22.0	21.1	20.9	20.8	20.8	20.7	20.9	20.8	20.6	20.6	20.6	20.4	
Redox	103	105	105	108	109	111	119	120	120	121	121	122	74
DO	3.31	3.29	3.22	2.89	1.88	1.52	0.71	0.83	1.03	1.33	1.37	1.41	

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

Set 2 of 3

Page 1 of 2

PROJECT	Coopervision GW Sampling	**H&A FILE NO.**	70665-006
LOCATION	Scottsville, NY	**PROJECT MGR.**	V. Dick
CLIENT	Coopervision	**FIELD REP**	S. Amrozowicz, A. Baudo
CONTRACTOR	none	**DATE**	7/19/01, 7/23/01, 7/24/01

GROUNDWATER SAMPLING INFORMATION

		MW-403	MW-205	MW-501	OWD-302	OWS-302	MW-502
Well No.							
Water Depth (feet)		9.04	4.48	13.72	4.42	4.18	24.86
Time (hh:mm)		9:40	15:35	12:30	14:00	14:25	10:25
Product		N/A	N/A	N/A	N/A	N/A	N/A
Depth Of Well (feet)		44.0	27.7	19.72	32.7	13.6	33.06
Inside Diameter (inches)		2.0	2.0	1.5	1.25	1.25	1.5
Conversion factor		0.17	0.17	0.1	0.08	0.08	0.10
Standing Water Depth (feet)		34.94	23.22	6.00	28.28	9.38	8.20
Volume Of Water In Well (Gal)		5.94	3.95	0.60	2.26	0.75	0.82
Purging Device		Watera Pump & disp. Tubing	Watera Pump & disp. Tubing	Watera Pump & disp. Tubing	Watera Pump & disp. Tubing	Watera Pump & disp. Tubing	Watera Pump & disp. Tubing
Volume of Bailer/Pump Capacity		N/A	N/A	N/A	N/A	N/A	N/A
Cleaning Procedure		N/A	N/A	N/A	N/A	N/A	N/A
Bails Removed/ Volume Removed (Gal)		8.00	4.00	1.00	2.00	<.5	~0.75
Time Purging Started (hh:mm)		9:45	15:45	12:50	14:00	14:30	10:30
Time Purging Stopped (hh:mm)		10:30	16:35	13:06	Dry at 14:20	Dry at 14:40	Dry at 10:45
Sampling Device		disp. Bailer	disp. Bailer	disp. Bailer	disp. Bailer	disp. Bailer	disp. Bailer
Cleaning Procedure		N/A	N/A	N/A	N/A	N/A	N/A
Samples	**VOA** (Time sampled)	10:45	17:30	14:30	16:00	16:00	11:15
Parameters	**Color**	clear	clear	silty	sandy	sandy	silty
	Odor	none	rotten	none	none	rotten	none
	CO_2 (mg/L)	33.0	182.0	34.0	20.8	Not enough water	27.2
	Alkalinity (mg/L)	100	500	920	120	640	120
	Fe^{2+} (mg/L)	0.6	0.2 **	0.0	0.0	0.0	0
	DO (mg/L)	0.70	1.26	0.30			4.14 *
	ReDox (mg/L)	-70	-58	-280			-241

Remarks: (ie: field filtrations, persons communicated with at site, etc.)

* **High DO in well MW-502 because of agitation caused by small volume of water in well mixing with air in the waterra tubing**

** **Fe test on well MW-205 was 0.0 mg/L the next day.**

Conversions: **1.25" = 0.08** **2" = 0.17** **3" = 0.38** **4" = 0.667** **6" = 1.50** **8" = 2.60**

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

Set 2 of 3

Page 2 of 2

PROJECT	Coopervision GW Sampling	H&A FILE NO.	70665-006
LOCATION	Scottsville, NY	PROJECT MGR.	v. Dick
CLIENT	Coopervision	FIELD REP	S. Amrozowicz, A. Baudo
CONTRACTOR	none	DATE	19-Jul-01

GROUNDWATER SAMPLING INFORMATION

Well No.	MW-403												
Time	9:45	9:47	9:49	9:52	9:54	10:00	10:08	10:12	10:17	10:21	10:24	10:30	Next Day
pH	7.87	7.85	7.79	7.71	7.68	7.61	7.61	7.61	7.61	7.6	7.6	7.59	
Conductivity	1.54	1.52	1.51	1.52	1.51	1.51	1.50	1.16	1.5	1.4	1.49	1.49	
Temp, ^{0}C	19.9	17.7	17.0	17.1	16.8	17.0	16.3	16.1	16.1	16.1	15.9	15.9	
Redox	-7	-31	-44	-32	-39	-53	-51	-61	-61	-59	-66	-70	
DO	2.83	0.99	0.44	1.28	1.21	0.88	0.83	0.74	0.60	1.05	0.96	0.70	1.44

Well No.	MW-205												
Time	15:44	15:45	12:46	12:48	12:50	12:53	12:57	16:00	16:05	16:10	16:15		
pH	7.96	7.89	7.70	7.58	7.47	7.41	7.33	7.30	7.28	7.29	7.29		
Conductivity	2.42	2.38	2.39	2.41	2.38	2.43	2.47	2.45	2.35	2.38	2.62		
Temp, ^{0}C	21.9	18.3	18.0	17.8	17.7	18.0	18.8	19.2	20.2	20.5	20.0		
Redox	-52.5	-51.0	-52.0	-53.0	-53.0	-54.0	-56.0	-57.0	-59.0	-60.0	-58.0		
DO	0.52	0.12	0.04	0.00	0.02	0.04	0.11	0.30	0.57	1.20	1.26		

Well No.	MW-501												
Time	12:55	12:56	12:58	13:00	13:02	13:03	13:04	13:05	13:06				
pH	7.69	7.96	8.07	8.18	8.19	8.17	8.17	8.17	8.17				
Conductivity	-5.00	0.12	0.15	1.52	1.52	1.56	1.58	1.60	1.61				
Temp, ^{0}C	30.3	27.8	26.3	25.0	23.4	23.3	23.3	23.0	23.2				
Redox	-155	-171	-183	-229	-248	-253	-266	-270	-280				
DO	3.9	3.48	3.16	1.15	0.72	0.53	0.34	0.26	0.30				

Well No.	OWS-302												
Time	DRY												
pH					Not enough water in well to purge anything								
Conductivity													
Temp, ^{0}C													
Redox													
DO													

Well No.	OWD-302												
Time	14:03	14:04	14:05	14:07	14:10	DRY							
pH	9.21	9.69	10.25	10.54	10.64								
Conductivity	1.58	1.58	1.63	1.67	1.40								
Temp, ^{0}C	22.5	19.4	19.3	20.0	21.0								
Redox	-68	-69	-70	-68	-64								
DO	2.87	1.45	2.12	3	3.54	High DO caused by mixing with air in waterra tubing as well went went dry							

Well No.	MW-502												
Time	10:38	10:40	10:41	10:43	10:45	DRY							
pH	8.86	8.81	8.71	8.59	8.48								
Conductivity	0.02	0.64	1.12	0.78	0.60								
Temp, ^{0}C	24.0	24.2	23.7	24.0	21.3								
Redox	-263	-264	-269	-214	-241								
DO	3.00	2.90	3.30	4.14	-	High DO caused by mixing with air in waterra tubing as well went went dry							

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

Set 3 of 3

Page 1 of 2

PROJECT	Coopervision GW Sampling	**H&A FILE NO.**	70665-006
LOCATION	Scottsville, NY	**PROJECT MGR.**	V. Dick
CLIENT	Coopervision	**FIELD REP**	S. Amrozowicz, A. Baudo
CONTRACTOR	none	**DATE**	19-Jul-01

GROUNDWATER SAMPLING INFORMATION

Well No.		**MW-401**					
Water Depth (feet)		8.42					
Time (hh:mm)		11:10					
Product		N/A					
Depth Of Well (feet)		46.1					
Inside Diameter (inches)		2					
Conversion factor		0.17					
Standing Water Depth (feet)		37.64					
Volume Of Water In Well (gallons)		6.40					
Purging Device		Watera Pump & disp. Tubing					
Volume of Bailer/Pump Capacity		N/A					
Cleaning Procedure		N/A					
Bails Removed/ Volume Removed		10.00					
Time Purging Started (hh:mm)		11:26					
Time Purging Stopped (hh:mm)		12:19					
Sampling Device		disp. Bailer					
Cleaning Procedure		N/A					
Samples	**VOA** (Time sampled)	12:30					
Parameters	**Color**	clear					
	Odor	none					
	CO_2 (mg/L)	137.4					
	Alkalinity (mg/L)	200					
	Fe^{2+} (mg/L)	1.8					
	DO (mg/L)	0.42					
	ReDox (mg/L)	-42.0					

Remarks: (ie: field filtrations, persons communicated with at site, etc.)

Conversions: 1.25" = 0.08 2" = 0.17 3" = 0.38 4" = 0.667 6" = 1.50 8" = 2.60

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

Set 3 of 3

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PROJECT	Coopervision GW Sampling	H&A FILE NO.	70665-006
LOCATION	Scottsville, NY	PROJECT MGR.	V. Dick
CLIENT	Coopervision	FIELD REP	S. Amrozowicz, A. Baudo
CONTRACTOR	none	DATE	7/19/01, 7/23/01

GROUNDWATER SAMPLING INFORMATION

Well No.	MW-401												
Time	11:26	11:28	11:30	11:32	11:38	11:43	11:47	11:53	11:59	12:09	12:14	12:19	
pH	7.45	7.42	7.39	7.34	7.33	7.34	7.33	7.31	7.28	7.26	7.25	7.25	
Conductivity	2.19	2.25	2.28	2.22	2.21	2.19	2.15	2.13	2.12	2.11	2.12	2.10	
Temp, ° C	20.3	19.0	19.0	17.7	17.7	16.9	16.5	16.5	16.0	16.1	16.7	16.1	
Redox	29	29	29	24	-16	-51	-52	-45	-46	-49	-45	-42	
DO	2.37	1.77	1.59	1.27	0.70	0.63	0.64	0.36	0.40	0.24	0.37	0.42	

Well No.	MW-205 (REDO)												
Time	9:40	9:42	9:44	9:47	9:51	9:56	10:01						
pH													
Conductivity										volume=0.5 Gal			
Temp, ° C													
Redox	117.0	115.0	109.0	101.0	98.0	97.0	95.0						
DO	4.14	4.7	4.19	3.51	3.88	3.88	4.51	DO high b/c of low well volume (~0.5 Gal)and agitatio					

Well No.	MW-402 (REDO)												
Time	10:27	10:28	10:29	10:30	10:31	10:32	10:33	10:36	10:38	10:41	10:43	10:44	10:46
pH							Grabbed water sample						
Conductivity										volume=6 Gal			
Temp, ° C										Fe Test = 1.0 mg/L			
Redox	25.0	-41.0	-63.0	-77.0	-87.0	-95.0	-97.0	-110.0	-116.0	-122.0	-122.0	-125.0	-128.0
DO	3.86	2.62	2.55	2.42	2.38	2.33	2.26	3.33	3.23	2.88	2.87	2.54	2.51

Well No.	MW-204 (REDO)												
Time	11:16	11:18	11:19	11:20	11:22	11:24	11:26	11:28	11:30	11:32			
pH													
Conductivity										volume=1.68 Gal			
Temp, ° C										Fe Test = 0.0 mg/L			
Redox	-118.0	-121.0	-122.0	-122.0	-120.0	-117.0	-112.0	-108.0	-103.0	-100.0			
DO	3.48	3.04	2.78	2.58	2.38	2.14	2.01	1.99	1.94	1.95			

Well No.													
Time													
pH													
Conductivity													
Temp, ° C													
Redox													
DO													

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

PROJECT	Coopervision Facility Investigation	H&A FILE NO.	70665-006
LOCATION	711 North Rd. Scottsville Rd.	PROJECT MGR.	Vince Dick
CLIENT		FIELD REP	Scott Amrozowicz
CONTRACTOR	None	DATE	September 28, 2001

Well No.	MW-403 (dtw:8.17')										
Time	9:26	9:28	9:30	9:33	9:36	9:40	9:40				
pH	7.79	7.65	7.59	7.52	7.48	7.47	7.47				
Conductivity	1.49	1.50	1.52	1.50	1.50	1.49	1.49				
Temp, ^{0} C	16.9	16.9	17.3	17.4	17.4	17.2	16.9				
ReDox (mg/L)	-16	-25	-32	-42	-47	-50	-52				
DO (mg/L)	1.72	1.57	1.03	0.65	0.55	0.52	0.51				

Well No.	MW-402 (dtw:7.86')										
Time	10:05	10:09	10:12	10:14	10:17	10:19	10:20				
pH	7.61	7.61	7.61	7.61	7.62	7.62	7.63				
Conductivity	1.86	1.90	1.92	1.93	1.93	1.93	1.01				
Temp, ^{0} C	15.2	15.1	15.5	15.9	16.2	16.3	16.2				
ReDox (mg/L)	-82	-113	-122	-130	-136	-139	-141				
DO (mg/L)	2.33	0.86	0.51	0.3	0.13	0.03	0.00				

Well No.	MW-202 (dtw:5.51')										
Time	10:33	10:35	10:37	10:39	10:40						
pH	7.76	7.78	7.79	7.80	7.80						
Conductivity	1.44	1.44	1.41	1.37	1.35						
Temp, ^{0} C	17.9	17.6	17.5	17.4	17.4						
ReDox (mg/L)	-83	-76	-69	-61	-55						
DO (mg/L)	0.81	0.38	0.13	0.05	0.00						

Well No.	MW-203 (dtw:5.25')										
Time	11:10	11:13	11:15	11:16	11:19	11:22	11:25	11:26			
pH	8.09	8.05	8.02	8.02	8.00	7.99	7.97	7.95			
Conductivity	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44			
Temp, ^{0} C	18.9	18.7	18.9	19.1	19.2	19.6	19.6	19.4			
ReDox (mg/L)	-9	-20	-30	-35	-38	-36	-29	-26			
DO (mg/L)	2.95	1.99	1.37	0.98	0.57	0.42	0.42	0.44			

Well No.	MW-204 (dtw:5.71')										
Time	12:30	12:32	12:34	12:36	12:38	12:40	12:43	12:45			
pH	8.21	7.98	7.85	7.72	7.70	7.70	7.71	7.70			
Conductivity	1.34	1.30	1.28	1.24	1.21	1.24	1.33	1.25			
Temp, ^{0} C	18.3	18.2	18.4	18.6	18.6	18.6	18.7	18.6			
ReDox (mg/L)	1	-2	-3	-7	-11	-16	-32	-42			
DO (mg/L)	3.13	1.94	1.43	0.90	0.79	0.75	0.73	0.70			

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

PROJECT	Coopervision Facility Investigation	H&A FILE NO.	70665-006
LOCATION	711 North Rd. Scottsville Rd.	PROJECT MGR.	Vince Dick
CLIENT		FIELD REP	Scott Amrozowicz
CONTRACTOR	None	DATE	September 26-27, 2001

Well No.	MW-502 (dtw:10.80')										
Time	13:25	13:27	13:29	13:31	13:34	13:37	13:39	13:40			
pH	8.48	8.58	8.65	8.72	8.72	8.75	8.75	8.74			
Conductivity	0.96	0.97	0.98	0.98	0.98	0.99	0.99	0.98			
Temp, ^{0} C	16.2	16.5	16.7	17.0	17.0	17.1	17.0	17.0			
ReDox (mg/L)	-191	-214	-232	-245	-261	-267	-264	-262			
DO (mg/L)	2.24	1.64	1.21	0.91	0.62	0.50	0.50	0.51			

Well No.	MW-501 (dtw:4.26')										
Time	13:57	13:59	14:01	14:03	14:05	14:06	14:08				
pH	8.63	8.69	8.65	8.61	8.55	8.51	8.51				
Conductivity	0.67	0.67	0.64	0.68	0.65	0.75	0.68				
Temp, ^{0} C	20.4	20.2	20.4	20.6	20.5	20.3	20.2				
ReDox (mg/L)	-139	-161	-172	-175	-181	-200	-205				
DO (mg/L)	1.83	0.64	0.29	0.10	0.04	0.02	0.01				

Well No.	OWD-302-D (dtw:3.80')										
Time	9:15	9:16	9:18	**11:25**							
pH	8.74	8.78	8.81	**7.47**		Switched to Horiba U-22. Well went dry and could not collect accurate parameters.					
Conductivity	1.34	1.34	1.34	**1.65**							
Temp, ^{0} C	17.2	17.7	18.2	**17.0**							
ReDox (mg/L)	87	87	86	**135**							
DO (mg/L)	6.28	3.51	0.00	**2.43**							

Well No.	OWD-302-S (dtw:2.59')										
Time	**14:45**	**14:47**									
pH	**6.18**	**6.23**		Well went dry and could not collect accurate parameters.							
Conductivity	**0.48**	**0.52**									
Temp, ^{0} C	**19.2**	**19.0**									
ReDox (mg/L)	**-49**	**-53**									
DO (mg/L)	**1.57**	**2.93**									

Well No.	MW-401 (dtw:11.40')										
Time	14:59	15:01	15:03	15:06	15:08	15:11	15:13	15:15			
pH	6.80	6.94	6.97	7.01	7.02	7.06	7.10	7.10			
Conductivity	2.71	2.72	2.71	2.69	2.68	2.65	2.60	2.57			
Temp, ^{0} C	17.0	16.7	16.5	16.3	16.7	16.5	16.2	16.5			
ReDox (mg/L)	-43	-37	-30	-25	-27	-38	-46	-49			
DO (mg/L)	3.45	2.38	2.08	1.46	1.09	0.46	0.21	0.48			

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

PROJECT	Coopervision Facility Investigation	H&A FILE NO.	70665-006
LOCATION	711 North Rd. Scottsville Rd.	PROJECT MGR.	Vince Dick
CLIENT		FIELD REP	Scott Amrozowicz
CONTRACTOR	None	DATE	September 27, 2001

Well No.	MW-205 (dtw:4.46')									
Time	15:38	15:40	15:42	15:44	15:46	15:48				
pH	7.06	7.03	7.01	7.01	7.00	7.00				
Conductivity	3.01	3.02	3.02	3.01	3.01	3.00				
Temp, °C	17.9	18.1	18.3	18.4	18.5	18.5				
ReDox (mg/L)	-11	-21	-24	-25	-25	-26				
DO (mg/L)	7.64	0.00	0.00	0.00	0.00	0.00				

Well No.	MW-2 (dtw:6.00')									
Time	16:13	16:15	16:17							
pH	737	7.45	7.53		Well went dry and accurate parameters could not be collected.					
Conductivity	0.98	0.98	1.01							
Temp, °C	19.0	18.9	19.1							
ReDox (mg/L)	19	26	29							
DO (mg/L)	8.40	9.51	9.69							

Well No.										
Time										
pH										
Conductivity										
Temp, °C										
ReDox (mg/L)										
DO (mg/L)										

Well No.										
Time										
pH										
Conductivity										
Temp, °C										
ReDox (mg/L)										
DO (mg/L)										

Well No.										
Time										
pH										
Conductivity										
Temp, °C										
ReDox (mg/L)										
DO (mg/L)										

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

PROJECT	Coopervision GW Sampling **Quarter** 2	**H&A FILE NO.**	70665-006
LOCATION	Scottsville, NY	**PROJECT MGR.**	Vince Dick
CLIENT	Coopervision	**FIELD REP**	S. Amrozowicz, G. White
WEATHER	Jan-28 was 50 degrees, sunny, Jan-29 was 40 degrees and cloudy	**DATE**	Jan-28,29-2002

GROUNDWATER SAMPLING INFORMATION

Well No.		MW-202	MW-203	MW-204	MW-205	MW-2	OW-304
Well Integrity		OK	OK	1 screw missing	OK	OK (1' stickup)	OK
Water Depth (feet)		7.12	3.52	6.45	4.75	5.80	3.08
Depth Of Well (feet)		18.90	19.45	19.44	27.54	11.00	13.10
Inside Diameter (inches)		2.00	2.00	2.00	2.00	1.25	1.25
Conversion factor		0.17	0.17	0.17	0.17	0.08	0.08
Standing Water Depth (feet)		11.78	15.93	12.99	22.79	5.20	10.02
Volume Of Water In Well (gallons)		2.00	2.71	2.21	3.87	0.42	0.80
Purging Device		Waterra tubing	Waterra tubing	Waterra tubing	Waterra tubing	Waterra tubing	Waterra tubing
Volume of Bailer/Pump Capacity		N/A	N/A	N/A	N/A	N/A	N/A
Cleaning Procedure		N/A	N/A	N/A	N/A	N/A	N/A
Volume Removed (est. gallons)		1.1	1.1	0.9	2.5	1.2	0.8
Time Purging Started (hh:mm)		12:30	8:20	10:50	11:55	13:45	9:00
Time Purging Stopped (hh:mm)		12:40	8:30	10:55	12:00	14:00	9:10
Sampling Device		Waterra tubing	Waterra tubing	Waterra tubing	Waterra tubing	Waterra tubing	Waterra tubing
Cleaning Procedure		N/A	N/A	N/A	N/A	N/A	N/A
Sampling	**Time**	12:45 (1/28)	8:45 (1/29)	11:00 (1/28)	12:00 (1/29)	14:00 (1/28)	9:20 (1/29)
	MNA parameters						
	Dissolved Gases				X		
	Metabolic Acids				X		
Sampling Parameters	**Temp**	12.8	10.7	12.9	15.6	11.9	8.0
	pH	7.67	7.59	6.88	7.19	7.55	7.48
	Conductivity	1.28	0.30	1.49	2.31	0.36	1.47
	ReDOX	54	173	51	-88	108	181
	DO (mg/L)	4.21	1.55	1.93	0.29	4.81	5.87
	CO_2 (mg/L)	45.4	62.6	64.0	140.0	60.6	77.6
	Alkalinity	75	240	180	580	280	300
	Fe^{2+}	0.0	0.0	0.0	2.6	0.0	0.0
	COMMENTS				Septic Smell	Filtered	Filtered

Remarks: (ie: field filtrations, persons communicated with at site, etc.)

Conversions: **1.25" = 0.08** **2" = 0.17** **3" = 0.38** **4" = 0.667** **6" = 1.50** **8" = 2.60**

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

PROJECT	Coopervision GW Sampling **Quarter** 2	**H&A FILE NO.**	70665-006
LOCATION	Scottsville, NY	**PROJECT MGR.**	Vince Dick
CLIENT	Coopervision	**FIELD REP**	S. Amrozowicz, G. White
WEATHER	Jan-28 was 50 degrees, sunny, Jan-29 was 40 degrees and cloudy, Jan-30: snow	**DATE**	Jan-28,29, 30-2002

GROUNDWATER SAMPLING INFORMATION

Well No.		MW-401	MW-402	MW-403	MW-501	MW-502	OWD-302D
Well Integrity		OK	OK	OK	Roadway box cracked (inside)	Screw holders broke	Screw holders broke
Water Depth (feet)		9.32	6.32	8.31	4.49	7.41	14.10
Depth Of Well (feet)		46.00	43.19	43.90	19.18**	33.99	32.8
Inside Diameter (inches)		2.0	2.0	2.0	1.5	1.5	1.25
Conversion factor		0.17	0.17	0.17	0.10	0.10	0.17
Standing Water Depth (feet)		36.68	36.87	35.59	14.69	26.58	18.70
Volume Of Water In Well (gallons)		6.24	6.27	6.05	1.47	2.66	3.18
Purging Device		Waterra tubing	Waterra tubing	Waterra tubing	Waterra tubing	Waterra tubing	Waterra tubing
Volume of Bailer/Pump Capacity		N/A	N/A	N/A	N/A	N/A	N/A
Cleaning Procedure		N/A	N/A	N/A	N/A	N/A	N/A
Volume Removed (est. gallons)		1.8	1.0	2.3	3.5	0.5	0.5
Time Purging Started (hh:mm)		13:20	11:50	11:00	15:00	14:45	10:25
Time Purging Stopped (hh:mm)		13:30	11:55	11:15	15:30	14:50	10:30
Sampling Device		Waterra tubing	Waterra tubing	Waterra tubing	Waterra tubing	Waterra tubing	Waterra tubing
Cleaning Procedure		N/A	N/A	N/A	N/A	N/A	N/A
Sampling	**Time**	13:40 (1/29)	12:00 (1/28)	11:15 (1/29)	Not sampled	14:45 (1/28)	10:30 (1/30)
	MNA parameters						
	Dissolved Gases			X	X	X	X
	Metabolic Acids			X	X	X	X
Sampling Parameters	**Temp**	14.7	13.3	14.0	N/A	14.6	12.8
	pH	7.54	7.21	7.47	N/A	7.46	7.9
	Conductivity	2.02	0.95	0.73	N/A	0.33	1.10
	ReDOX	-77	-55	-14	N/A	28	162
	DO (mg/L)	0.15	3.22	0.99	N/A	2.93	7.2 (oxygenated)
	CO_2 (mg/L)	168.0	54.2	60.8	N/A	37.4	49.8
	Alkalinity	220	120	180	N/A	75	85
	Fe^{2+}	2.9	0.0	0.9	N/A	0.0	0.0
	COMMENTS			Orange stained tube		Black stained tube	strong solvent oder

Remarks: (ie: field filtrations, persons communicated with at site, etc.) **MW-501:** DTB increased from 19.18 to 19.65 by waterra, silt was in the screen.
OWD-302D: DTB was increased from 31.2 to 33.2, sand pack continually filled up the screen (the screen may be broke?).

MW-501: Was not sampled because the roadway box was flooded. Even with bailing the box empty, water continued into it because the roadway box is cracked. Sampling will have to take place when the ground is not as wet.

Conversions: **1.25" = 0.08** **2" = 0.17** **3" = 0.38** **4" = 0.667** **6" = 1.50** **8" = 2.60**

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

PROJECT	Coopervision GW Sampling **Quarter** 2	**H&A FILE NO.**	70665-006
LOCATION	Scottsville, NY	**PROJECT MGR.**	Vince Dick
CLIENT	Coopervision	**FIELD REP**	S. Amrozowicz, G. White
WEATHER	snow and cold	**DATE**	Jan-30-2002

GROUNDWATER SAMPLING INFORMATION

Well No.		**OWS-302S**					
Well Integrity		Flooded					
Water Depth (feet)		N/A					
Depth Of Well (feet)		13.30					
Inside Diameter (inches)		1.25					
Conversion factor		0.17					
Standing Water Depth (feet)		N/A					
Volume Of Water In Well (gallons)		N/A					
Purging Device		Waterra tubing					
Volume of Bailer/Pump Capacity		N/A					
Cleaning Procedure		N/A					
Volume Removed (est. gallons)		0.20					
Time Purging Started (hh:mm)		10:55					
Time Purging Stopped (hh:mm)		10:56					
Sampling Device		Waterra tubing					
Cleaning Procedure		N/A					
Sampling	**Time**	11:00 (1/30)					
	MNA parameters						
	Dissolved Gases	X					
	Metabolic Acids	X					
Sampling Parameters	**Temp**	N/A					
	pH	N/A					
	Conductivity	N/A					
	ReDOX	N/A					
	DO (mg/L)	N/A					
	CO_2 (mg/L)	N/A					
	Alkalinity	580					
	Fe^{2+}	approx. 3.0					
	COMMENTS	strong solvent oder					

Remarks: (ie: field filtrations, persons communicated with at site, etc.)

OWD and OWS for 302 cluster: These appear to be reversed on the site map. They do not agree with the DTB read in the field.

OWS-302S: DTB increased from 11.4 to 13.3, sand pack in the well screen. Only enough water to sample and gather some parameters after the well had been purged the previous day.

Conversions: 1.25" = 0.08 2" = 0.17 3" = 0.38 4" = 0.667 6" = 1.50 8" = 2.60

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

Set 2 of 2

Page 1 of 3

PROJECT	Coopervision GW Sampling	H&A FILE NO.	70665-006
LOCATION	Scottsville, NY	PROJECT MGR.	Vince Dick
CLIENT	Coopervision	FIELD REP	S. Amrozowicz, G. White
WEATHER	Jan-28 was 50 degrees, sunny, Jan-29 was 40 degrees and cloudy	DATE	Jan-28,29-2002

GROUNDWATER SAMPLING INFORMATION

Well No.	MW-202												
Time (min.)	0.0	1.0	2.0	4.0									
pH	2.88	7.84	7.73	7.67									
Conductivity	1.29	1.28	1.28	1.28									
Temp, ^{0} C	12.70	12.80	12.80	12.80									
Redox	49.0	50.0	52.0	54.0									
DO	4.83	4.76	4.54	4.21									

Well No.	MW-203												
Time (min.)	0.0	1.0	2.0	3.0	4.0	5.0	6.0						
pH	7.50	7.52	7.55	7.56	7.55	7.58	7.59						
Conductivity	0.35	0.35	0.19	0.36	0.35	0.32	0.30						
Temp, ^{0} C	10.00	9.90	10.10	10.20	10.40	10.60	10.70						
Redox	184.0	184.0	184.0	182.0	179.0	176.0	173.0						
DO	2.46	2.1	2	1.86	1.75	1.47	1.55						

Well No.	MW-204												
Time (min.)	0.0	1.0	2.0	4.0									
pH	7.04	6.95	6.91	6.88									
Conductivity	1.56	1.52	1.49	1.49									
Temp, ^{0} C	12.90	13.00	12.90	12.90									
Redox	81.0	71.0	56.0	51.0									
DO	2.37	2.05	1.89	1.93									

Well No.	MW-205												
Time (min.)	0.0	1.0	1.5	2.0	3.0	3.5	4.0	4.5	5.0				
pH	7.84	7.72	7.51	7.45	7.39	7.30	7.27	7.25	7.19				
Conductivity	1.16	2.23	2.23	2.15	2.20	2.30	2.30	2.30	2.31				
Temp, ^{0} C	12.90	14.30	14.60	14.70	14.90	15.30	15.50	15.6	15.6				
Redox	-33.0	-57.0	-66.0	-71.0	-75.0	-81.0	-83.0	-86.0	-88.0				
DO	1.9	1.53	0.7	0.5	0.69	0.34	0.24	0.28	0.29				

Well No.	MW-2												
Time (min.)	0.0	1.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0		
pH	8.30	8.16	8.08	7.91	7.86	7.81	7.74	7.68	7.65	7.60	7.55		
Conductivity	0.02	0.57	0.06	0.59	0.60	0.60	0.34	0.59	0.47	0.46	0.36		
Temp, ^{0} C	13.20	11.90	11.90	12.40	12.50	12.50	12.40	12	11.8	11.9	11.9		
Redox	93.0	94.0	95.0	98.0	99.0	100.0	101.0	102.0	104.0	106.0	108.0		
DO	7.28	7.3	6.59	6.56	6.18	5.8	5.52	5.2	4.8	4.56	4.81		

Well No.	OW-304												
Time (min.)	0.0	1.0	2.0	4.0									
pH	7.33	7.38	7.44	7.48									
Conductivity	1.54	1.48	1.54	1.47									
Temp, ^{0} C	8.30	8.30	8.10	8.00									
Redox	182.0	181.0	181.0	181.0									
DO	5.90	5.31	5.32	5.87									

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

Set 2 of 2

Page 2 of 3

PROJECT	Coopervision GW Sampling	H&A FILE NO.	70665-006
LOCATION	Scottsville, NY	PROJECT MGR.	Vince Dick
CLIENT	Coopervision	FIELD REP	S. Amrozowicz, G. White
WEATHER	Jan-28 was 50 degrees, sunny, Jan-29 was 40 degrees and cloudy	DATE	Jan-28,29-2002

GROUNDWATER SAMPLING INFORMATION

Well No.	MW-401												
Time (min.)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0					
pH	8.67	8.31	7.97	7.96	7.89	7.71	7.63	7.54					
Conductivity	1.93	2.03	2.01	2.02	1.94	2.03	2.02	2.02					
Temp, ° C	13.1	13.9	14.0	14.0	14.2	14.5	14.6	14.7					
Redox	-26	-39	-64	-66	-71	-76	-78	-77					
DO	4.03	2.65	1.62	0.73	0.37	0.31	0.15	0.15					

Well No.	MW-402												
Time (min.)	0.0	1.0	2.0	4.0	5.0								
pH	7.22	7.18	7.19	7.22	7.21								
Conductivity	0.90	0.84	0.40	0.35	0.95								
Temp, ° C	12.9	13.2	13.3	13.3	13.3								
Redox	11	-22	-48	-55	-55								
DO	4.71	4.33	3.8	3.2	3.22								

Well No.	MW-403												
Time (min.)	0.0	1.0	2.0	3.0	4.0	5.0							
pH	8.19	7.92	7.85	7.62	7.48	7.47							
Conductivity	0.02	0.03	1.35	1.34	1.34	0.73							
Temp, ° C	12.2	12.4	13.3	13.7	13.8	14.0							
Redox	184.0	168.0	29.0	-6.0	-10.0	-14.0							
DO	2.45	2.45	2.34	1.22	0.84	0.99							

Well No.	MW-501												
Time (min.)	N/A												
pH	N/A												
Conductivity	N/A												
Temp, ° C	N/A												
Redox	N/A												
DO	N/A												

Well No.	MW-502												
Time (min.)	0.0	1.0	2.0	3.0									
pH	7.20	7.32	7.39	7.46									
Conductivity	0.35	0.32	0.32	0.33									
Temp, ° C	13.60	14.40	14.60	14.60									
Redox	54	40	31	28									
DO	4.15	3.37	2.86	2.93									

Well No.	OWD-302D												
Time (min.)	N/A												
pH	N/A												
Conductivity	N/A												
Temp, ° C	N/A												
Redox	N/A												
DO	N/A												

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

PROJECT	Coopervision GW Sampling	H&A FILE NO.	70665-006
LOCATION	Scottsville, NY	PROJECT MGR.	
CLIENT	Coopervision	FIELD REP	S. Amrozowicz
WEATHER		DATE	

GROUNDWATER SAMPLING INFORMATION

Well No.	OWS-302S												
Time (min.)	N/A												
pH	N/A												
Conductivity	N/A												
Temp, ⁰ C	N/A												
Redox	N/A												
DO	N/A												

Well No.													
Time (min.)													
pH													
Conductivity													
Temp, ⁰ C													
Redox													
DO													

Well No.													
Time (min.)													
pH													
Conductivity													
Temp, ⁰ C													
Redox													
DO													

Well No.													
Time (min.)													
pH													
Conductivity													
Temp, ⁰ C													
Redox													
DO													

Well No.													
Time (min.)													
pH													
Conductivity													
Temp, ⁰ C													
Redox													
DO													

Well No.													
Time (min.)													
pH													
Conductivity													
Temp, ⁰ C													
Redox													
DO													

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

PROJECT	Coopervision GW Sampling **Quarter** 2	**H&A FILE NO.**	70665-007
LOCATION	Scottsville, NY	**PROJECT MGR.**	Vince Dick
CLIENT	Coopervision	**FIELD REP**	S. Amrozowicz
WEATHER	Sunny 45 degrees, slight breeze	**DATE**	Feb 15, 2002

GROUNDWATER SAMPLING INFORMATION

Well No.		**MW-501**	**MW-3**				
Well Integrity		Roadway box cracked (inside)	OK				
Water Depth (feet)		2.80	3.83				
Depth Of Well (feet)		19.65	9.76				
Inside Diameter (inches)		1.5	1.0				
Conversion factor		0.10	0.05				
Standing Water Depth (feet)		16.85	5.93				
Volume Of Water In Well (gallons)		1.69	0.30				
Purging Device		Waterra tubing	Waterra tubing				
Volume of Bailer/Pump Capacity		N/A	N/A				
Cleaning Procedure		N/A	N/A				
Volume Removed (est. gallons)		2.0	Dry @ 0.2				
Time Purging Started (hh:mm)		9:30	9:05				
Time Purging Stopped (hh:mm)		9:40	9:10				
Sampling Device		Waterra tubing	Waterra tubing				
Cleaning Procedure		N/A	N/A				
Sampling	**Time**	9:45	10:45				
	MNA parameters						
	Dissolved Gases	X	X				
	Metabolic Acids	X	X				
Sampling Parameters	**Temp**	12.1	10.3				
	pH	7.45	7.15				
	Conductivity	12.03	0.07				
	ReDOX	-108	116				
	DO (mg/L)	0.27	5.19				
	CO_2 (mg/L)	90.0	N/A				
	Alkalinity	200	N/A				
	Fe^{2+}	0.2	N/A				
	COMMENTS	Silty	Insufficient water				

Remarks: (ie: field filtrations, persons communicated with at site, etc.)

Conversions: 1.25" = 0.08 2" = 0.17 3" = 0.38 4" = 0.667 6" = 1.50 8" = 2.60

HALEY & ALDRICH

GROUNDWATER SAMPLING RECORD

PROJECT	Coopervision GW Sampling	**H&A FILE NO.**	70665-006
LOCATION	Scottsville, NY	**PROJECT MGR.**	Vince Dick
CLIENT	Coopervision	**FIELD REP**	S. Amrozowicz
WEATHER	Sunny 45 degrees, slight breeze	**DATE**	Feb 15, 2002

GROUNDWATER SAMPLING INFORMATION

Well No. MW-501

Time (min.)	0	1	2	3	4	5	6	7	8				
pH	6.60	6.90	6.80	7.00	7.10	7.24	7.31	7.4	7.45				
Conductivity	13.80	13.80	12.96	12.50	12.40	12.45	12.20	12.08	12.03				
Temp, ⁰ C	11.50	11.90	11.70	11.40	11.40	11.80	11.80	12.1	12.1				
Redox	70.0	30.0	8.0	-10.0	-30.0	-60.0	-74.0	-94.0	-108.0				
DO	4.30	2.30	1.80	1.67	1.12	0.60	0.45	0.34	0.27				

Well No. MW-3

Time (min.)	0	2											
pH	7.29	7.15											
Conductivity	0.07	0.07											
Temp, ⁰ C	14.00	10.30											
Redox	106.0	116.0											
DO	3.15	5.19											

Well No.

Time (min.)													
pH													
Conductivity													
Temp, ⁰ C													
Redox													
DO													

Well No.

Time (min.)													
pH													
Conductivity													
Temp, ⁰ C													
Redox													
DO													

Well No.

Time (min.)													
pH													
Conductivity													
Temp, ⁰ C													
Redox													
DO													

Well No.

Time (min.)													
pH													
Conductivity													
Temp, ⁰ C													
Redox													
DO													

APPENDIX C

GROUNDWATER ANALYTICAL DATA

DATA USABILITY SUMMARY REPORT

Coopervision Facility - Scottsville, New York
July and October 2001, January and February 2002 Sampling Events

Analytical Laboratory: Columbia Analytical Services, Inc.-Rochester, New York
CAS Submission #R21007841; R2107899; R2107880; R2107866; R2107810; R2109133; R2210553; R2210705

Analytical results for forty-two (42) aqueous samples with Standard Laboratory Quality Control (QC) including trip blanks and method blank sample analyses. The reported analytical results have been reviewed to evaluate the data usability. Data were assessed in accordance with the New York State Department of Conservation (NYSDEC) **Guidance for the Development of Quality Assurance Plans and Data Usability Summary Reports (DUSR)** (September 1997) and the laboratory specific standard operating procedures criteria, where applicable. The samples were collected by Haley & Aldrich personnel at the Coopervision facility in Scottsville, New York on 20-25 July and 18 October 2001, and 28-30 January and 15 February 2002. The following items/criteria applicable to the QA/QC data and samples listed above were reviewed:

X	Blank Sample Analyses
X	Surrogate Recoveries
X	Replicate Analyses
X	Laboratory Control Sample Analyses
X	Sample Data Reporting Procedures
X	Holding Times Compliance
X	Data Qualification Procedures

The above items were in compliance with NYSDEC DUSR guidance criteria.

Blank Sample Analyses

Trip and laboratory method blank samples were prepared and analyzed concurrently with the project samples. Target compounds were not detected above the laboratory reporting limit in all the associated method, and trip blank samples. No corrective action was required.

GC/MS Instrument Performances

As presented in the submission Case Narratives, GC/MS instruments used in the analysis of project samples were tuned with bromofluorobenzene (BFB) prior to each sample analysis. The BFB tunes met the criteria prescribed by EPA Method 8260B without exception.

Initial GC/MS Instrument Calibration Procedures

GC/MS Instrument calibration procedures were consistent with the guidelines prescribed by EPA Method 8260B and the laboratory SOP, where applicable without exception. No corrective action is recommended.

Continuing Calibration Verification Procedures

The percent difference (%D) between the relative response factor (RRF) from the initial calibration for each target compound met the QC criteria prescribed by EPA Method 8260B and the laboratory SOP, where applicable without exception. No corrective action is recommended.

Surrogate Recovery

Surrogate compounds were added to each sample prior to analysis of organic parameters by EPA Methods 8260B to confirm the efficiency of the sample preparation procedures. The calculated recovery for each surrogate compound fell within method specific criteria without exception. No corrective actions are recommended.

Sample Data Reporting

The sample data are presented using a Level III laboratory reporting format including a CLP Form I equivalent and associated laboratory batch QC sample analysis results. The reporting limit values for the diluted analyses were adjusted for the level of dilution performed. The reporting format is complete and compliant with the objectives of the project, no corrective action is recommended.

Holding Time Compliance

Maximum allowable holding times measured from the time of sample collection to the time of sample preparation or analysis were met for each project sample analyzed as part of this sample delivery group. No corrective action required.

Data Qualification Procedures

Data qualifiers were assigned by the laboratory to the reported results to identify target compounds detected above the instrument calibration or when associated batch QC data fell outside of laboratory specific criteria. Review of the data qualifiers indicate that the qualification flags were applied to the reported results in accordance with the EPA National Functional Guidelines for data validation.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable, without exception.

July 2001
Baseline
VOC/MW A/Gauss

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

August 17, 2001

Mr. Vincent Dick
Haley & Aldrich of New York
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

PROJECT:COOPERVISION #70665-006
Submission #:R2107841

Dear Mr. Dick

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Karen Bunker

Karen Bunker
Project Manager

Enc.

Columbia Analytical Services inc.
1 Mustard ST.
Suite 250
Rochester, NY 14609

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client	: Haley & Aldrich of New York
Project Reference	: COOPERVISION #70665-006
Lab Submission #	: R2107841
Reported	: 08/17/01

Report Contains a total of 39 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. Michael K P

Case Narrative

Company: Haley & Aldrich
Project: Coopervision #70665-006
Submission #: R2107841

H&A collected water samples on 7/190/01 and were received at CAS on 7/20/01 unbroken, packed in ice, at a cooler temperature of 1°C.

GC/MS VOLATILE ORGANICS

Five water samples, including 1 Trip Blank were analyzed for the Target Compound List of Volatile Organics by GC/MS Method 8260B from SW-846.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits except for location MW-2 (CAS Order # 480247) the Dibromofluoromethane recovery. The sample was repeated at a dilution to bring hits within the calibration range of the standards and all surrogates were within limits. The hits above range on the initial run are flagged as "E". Both sets of data are included within the report package.

Locations MW-205, MW-401, and OWD-302, (CAS Order # 480248, 480250, and 480251) also required dilutions. The initial sample analyses have hits for compounds outside the standard calibration curves, which have been flagged as "E". The samples were repeated at appropriate dilutions. Both sets of data are included in the report package.

The Laboratory Blanks associated with these analyses were free from contamination.

No other analytical or QC problems were encountered.

1 Mustard Street, Suite 250 ▪ Rochester, NY 14609-6925 ▪ Telephone (716) 288-5380 ▪ Fax (716) 288-8475

GC Volatile Organics

Two water samples were analyzed for Ethane, Ethene, Methane and Propane by GC method RSK-175.

All associated QC was within limits for these samples.

Samples were run within holding time for the method.

The Method Blank was free from contamination.

No problems were encountered during the analysis.

Inorganic Analyses

Two water samples were submitted for analysis for the following list of parameters: Total Alkalinity by method 310.1, Chloride by IC method 300.0, Nitrate/Nitrite by method 353.1, Nitrite by method 353.2, Nitrate by calculation, Sulfate by IC method 300.0, Total Sulfide by Method 376.1, and the ICP Metals Iron and Manganese by Method 6010B. Three water samples were analyzed for Dissolved Organic Carbon by method 415.1

All were analyzed within proper holding times for the methodology.

All QC associated with the sample was within limits.

No analytical problems were encountered.

Columbia Analytical Services inc.

This report contains analytical results for the following samples:

Submission #: R2107841

Lab ID	Client ID
480177	MW-403
480178	MW-205
480179	MW-403
480180	MW-205
480181	MW-205
480182	OWD-302
480183	MW-403
480202	MW-403
480206	OWD-302
480207	MW-205
480236	MW-403
480237	MW-205
480238	MW-205
480239	MW-403
480240	MW-403
480242	MW-205
480247	MW-2
480248	MW-205
480250	MW-401
480251	OWD-302
480268	MW-403
480269	TRIP BLANK 7/19

Columbia Analytical Services Inc.

Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester:	10145	NJ ID # in Rochester:	73004
CT ID # in Rochester:	PH0556	RI ID # in Rochester:	158
MA ID # in Rochester:	M-NY032	NH ID # in Rochester:	294198-A
AIHA # in Rochester:	7889		

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-403

Date Sampled : 07/19/01 10:45 **Order #:** 480177 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL ALKALINITY	310.1	2.00	113	MG/L	07/31/01	14:45	0.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-205

Date Sampled : 07/19/01 17:30 **Order #:** 480178 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL ALKALINITY	310.1	2.00	404	MG/L	07/31/01	14:45	0.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-403

Date Sampled : 07/19/01 10:45 **Order #:** 480179 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	07/26/01		1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-205

Date Sampled : 07/19/01 17:30 **Order #:** 480180 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	07/26/01	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-205

Date Sampled : 07/19/01 17:30 **Order #:** 480181 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
DISSOLVED ORGANIC CARBONS	415.1.	1.00	52.2	MG/L	08/13/01	17:26	10.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : OWD-302

Date Sampled : 07/19/01 15:15 **Order #:** 480182 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
DISSOLVED ORGANIC CARBONS	415.1.	1.00	4.23	MG/L	08/13/01	16:56	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-403

Date Sampled : 07/19/01 10:45 **Order #:** 480183 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
DISSOLVED ORGANIC CARBONS	415.1.	1.00	1.34	MG/L	08/13/01	17:11	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD MODIFIED RSK-175
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-403

Date Sampled : 07/19/01 10:45 **Order #:** 480202 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841 **Analytical Run** 67640

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/31/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	3.3	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD MODIFIED RSK-175
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : OWD-302

Date Sampled : 07/19/01 15:15 **Order #:** 480206 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841 **Analytical Run** 67640

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/31/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	15	UG/L
ETHYLENE	1.0	1.3	UG/L
METHANE	2.0	38	UG/L
PROPANE	1.0	5.6	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD MODIFIED RSK-175
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-205

Date Sampled : 07/19/01 17:30 **Order #:** 480207 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841 **Analytical Run** 67640

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/31/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	10	UG/L
ETHYLENE	1.0	2.9	UG/L
METHANE	2.0	5.0	UG/L
PROPANE	1.0	1.1	UG/L

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-403

Date Sampled : 07/19/01 10:45 **Order #:** 480236 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
CHLORIDE	300.0	0.100	17.3	MG/L	07/31/01	12:01	10.0
NITRITE NITROGEN	353.2	0.0100	0.0135	MG/L	07/20/01	13:18	1.0
SULFATE	300.0	0.200	1010	MG/L	08/01/01	14:27	200.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-205

Date Sampled : 07/19/01 17:30 **Order #:** 480237 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
CHLORIDE	300.0	0.100	750	MG/L	07/31/01	16:09	100.0
NITRITE NITROGEN	353.2	0.0100	0.0265	MG/L	07/20/01	13:18	1.0
SULFATE	300.0	0.200	96.9	MG/L	07/31/01	12:13	10.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-205

Date Sampled : 07/19/01 17:30 **Order #:** 480238 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
NITRATE NITROGEN	353.2	0.0500	0.0514	MG/L			1.0
NITRATE/NITRITE NITROGEN	353+35	0.0500	0.0500 U	MG/L	07/27/01	09:23	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-403

Date Sampled : 07/19/01 10:45 **Order #:** 480239 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
NITRATE NITROGEN	353.2	0.0500	0.0500 U	MG/L			1.0
NITRATE/NITRITE NITROGEN	353+35	0.0500	0.0500 U	MG/L	07/27/01	09:23	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-403

Date Sampled : 07/19/01 10:45 **Order #:** 480240 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	10.5	MG/L	07/26/01	1.0
MANGANESE	6010B	0.0100	0.222	MG/L	07/26/01	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-205

Date Sampled : 07/19/01 17:30 **Order #:** 480242 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	21.2	MG/L	07/26/01	1.0
MANGANESE	6010B	0.0100	0.641	MG/L	07/26/01	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-2

Date Sampled : 07/19/01 09:45 **Order #:** 480247 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841 **Analytical Run** 68007

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	170	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	370 E	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	22	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	1500 E	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	74	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	102	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	77 *	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-2

Date Sampled : 07/19/01 09:45 **Order #:** 480247 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841 **Analytical Run** 68007

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/02/01			
ANALYTICAL DILUTION: 25.00			
ACETONE	20	500 U	UG/L
BENZENE	5.0	130 U	UG/L
BROMODICHLOROMETHANE	5.0	130 U	UG/L
BROMOFORM	5.0	130 U	UG/L
BROMOMETHANE	5.0	130 U	UG/L
2-BUTANONE (MEK)	10	250 U	UG/L
CARBON DISULFIDE	10	250 U	UG/L
CARBON TETRACHLORIDE	5.0	130 U	UG/L
CHLOROBENZENE	5.0	130 U	UG/L
CHLOROETHANE	5.0	130 U	UG/L
CHLOROFORM	5.0	130 U	UG/L
CHLOROMETHANE	5.0	130 U	UG/L
DIBROMOCHLOROMETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHANE	5.0	130 U	UG/L
1,2-DICHLOROETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHENE	5.0	210	UG/L
CIS-1,2-DICHLOROETHENE	5.0	130 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	130 U	UG/L
1,2-DICHLOROPROPANE	5.0	130 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
ETHYLBENZENE	5.0	130 U	UG/L
2-HEXANONE	10	250 U	UG/L
METHYLENE CHLORIDE	5.0	130 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	250 U	UG/L
STYRENE	5.0	130 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	130 U	UG/L
TETRACHLOROETHENE	5.0	130 U	UG/L
TOLUENE	5.0	130 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	1200	UG/L
1,1,2-TRICHLOROETHANE	5.0	130 U	UG/L
TRICHLOROETHENE	5.0	130 U	UG/L
VINYL CHLORIDE	5.0	130 U	UG/L
O-XYLENE	5.0	130 U	UG/L
M+P-XYLENE	5.0	130 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	99	%
TOLUENE-D8	(87 - 108 %)	97	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	96	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-205

Date Sampled : 07/19/01 17:30 **Order #:** 480248 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841 **Analytical Run** 68007

DATE ANALYZED : 08/01/01
ANALYTICAL DILUTION: 500.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	10000 U	UG/L
BENZENE	5.0	2500 U	UG/L
BROMODICHLOROMETHANE	5.0	2500 U	UG/L
BROMOFORM	5.0	2500 U	UG/L
BROMOMETHANE	5.0	2500 U	UG/L
2-BUTANONE (MEK)	10	5000 U	UG/L
CARBON DISULFIDE	10	5000 U	UG/L
CARBON TETRACHLORIDE	5.0	2500 U	UG/L
CHLOROBENZENE	5.0	2500 U	UG/L
CHLOROETHANE	5.0	2500 U	UG/L
CHLOROFORM	5.0	2500 U	UG/L
CHLOROMETHANE	5.0	2500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHANE	5.0	230000 E	UG/L
1,2-DICHLOROETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHENE	5.0	2600	UG/L
CIS-1,2-DICHLOROETHENE	5.0	2500 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	2500 U	UG/L
1,2-DICHLOROPROPANE	5.0	2500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
ETHYLBENZENE	5.0	2500 U	UG/L
2-HEXANONE	10	5000 U	UG/L
METHYLENE CHLORIDE	5.0	2500 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	5000 U	UG/L
STYRENE	5.0	2500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	2500 U	UG/L
TETRACHLOROETHENE	5.0	2500 U	UG/L
TOLUENE	5.0	2500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	320000 E	UG/L
1,1,2-TRICHLOROETHANE	5.0	2500 U	UG/L
TRICHLOROETHENE	5.0	2500 U	UG/L
VINYL CHLORIDE	5.0	2500 U	UG/L
O-XYLENE	5.0	2500 U	UG/L
M+P-XYLENE	5.0	2500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	99	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	97	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-205

Date Sampled : 07/19/01 17:30 **Order #:** 480248 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841 **Analytical Run** 68007

DATE ANALYZED : 08/02/01
ANALYTICAL DILUTION: 2000.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	40000 U	UG/L
BENZENE	5.0	10000 U	UG/L
BROMODICHLOROMETHANE	5.0	10000 U	UG/L
BROMOFORM	5.0	10000 U	UG/L
BROMOMETHANE	5.0	10000 U	UG/L
2-BUTANONE (MEK)	10	20000 U	UG/L
CARBON DISULFIDE	10	20000 U	UG/L
CARBON TETRACHLORIDE	5.0	10000 U	UG/L
CHLOROBENZENE	5.0	10000 U	UG/L
CHLOROETHANE	5.0	10000 U	UG/L
CHLOROFORM	5.0	10000 U	UG/L
CHLOROMETHANE	5.0	10000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	10000 U	UG/L
1,1-DICHLOROETHANE	5.0	180000	UG/L
1,2-DICHLOROETHANE	5.0	10000 U	UG/L
1,1-DICHLOROETHENE	5.0	10000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	10000 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	10000 U	UG/L
1,2-DICHLOROPROPANE	5.0	10000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10000 U	UG/L
ETHYLBENZENE	5.0	10000 U	UG/L
2-HEXANONE	10	20000 U	UG/L
METHYLENE CHLORIDE	5.0	10000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20000 U	UG/L
STYRENE	5.0	10000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10000 U	UG/L
TETRACHLOROETHENE	5.0	10000 U	UG/L
TOLUENE	5.0	10000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	260000	UG/L
1,1,2-TRICHLOROETHANE	5.0	10000 U	UG/L
TRICHLOROETHENE	5.0	10000 U	UG/L
VINYL CHLORIDE	5.0	10000 U	UG/L
O-XYLENE	5.0	10000 U	UG/L
M+P-XYLENE	5.0	10000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	103	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	98	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-401

Date Sampled : 07/19/01 12:30 **Order #:** 480250 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841 **Analytical Run** 68007

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	560 E	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	45	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	400 E	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	100	%
TOLUENE-D8	(87 - 108 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	103	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-401

Date Sampled : 07/19/01 12:30 **Order #:** 480250 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841 **Analytical Run** 68007

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/02/01			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	500	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	39	UG/L
CIS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	360	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	25 U	UG/L
VINYL CHLORIDE	5.0	25 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	101	%
TOLUENE-D8	(87 - 108 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	98	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : OWD-302

Date Sampled : 07/19/01 15:15 **Order #:** 480251 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841 **Analytical Run** 68007

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.9	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	2000 E	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	16	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	102	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	103	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : OWD-302

Date Sampled : 07/19/01 15:15 **Order #:** 480251 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841 **Analytical Run** 68007

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/03/01			
ANALYTICAL DILUTION: 25.00			
ACETONE	20	500 U	UG/L
BENZENE	5.0	130 U	UG/L
BROMODICHLOROMETHANE	5.0	130 U	UG/L
BROMOFORM	5.0	130 U	UG/L
BROMOMETHANE	5.0	130 U	UG/L
2-BUTANONE (MEK)	10	250 U	UG/L
CARBON DISULFIDE	10	250 U	UG/L
CARBON TETRACHLORIDE	5.0	130 U	UG/L
CHLOROBENZENE	5.0	130 U	UG/L
CHLOROETHANE	5.0	130 U	UG/L
CHLOROFORM	5.0	130 U	UG/L
CHLOROMETHANE	5.0	130 U	UG/L
DIBROMOCHLOROMETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHANE	5.0	3100	UG/L
1,2-DICHLOROETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHENE	5.0	130 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	130 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	130 U	UG/L
1,2-DICHLOROPROPANE	5.0	130 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
ETHYLBENZENE	5.0	130 U	UG/L
2-HEXANONE	10	250 U	UG/L
METHYLENE CHLORIDE	5.0	130 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	250 U	UG/L
STYRENE	5.0	130 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	130 U	UG/L
TETRACHLOROETHENE	5.0	130 U	UG/L
TOLUENE	5.0	130 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	130 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	130 U	UG/L
TRICHLOROETHENE	5.0	130 U	UG/L
VINYL CHLORIDE	5.0	130 U	UG/L
O-XYLENE	5.0	130 U	UG/L
M+P-XYLENE	5.0	130 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	99	%
TOLUENE-D8	(87 - 108 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-403

Date Sampled : 07/19/01 10:45 **Order #:** 480268 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841 **Analytical Run** 68007

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/02/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	100	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	103	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : TRIP BLANK 7/19

Date Sampled : 07/19/01 **Order #:** 480269 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107841 **Analytical Run** 68007

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/02/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	101	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	102	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 486667 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 68007

DATE ANALYZED : 08/01/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	98	%
TOLUENE-D8	(87 - 108 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	98	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 486678 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 68007

DATE ANALYZED : 08/02/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	101	%
TOLUENE-D8	(87 - 108 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 486712 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 68007

DATE ANALYZED : 08/03/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	101	%
TOLUENE-D8	(87 - 108 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	98	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD MODIFIED RSK-175
Reported: 08/17/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 484824 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 67640

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/31/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

mbi Analytical Services INC.
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 3

SR #

CAS Contact

Project Name: CooperVision	Project Number: 706065-006
Project Manager: V. Dick	Report CC:
Company/Address: Haley & Aldrich 200 Town Centre Drive Suite #2 Rochester, NY 14623-4264	
Phone #: (716) 359-9000	FAX#: (716) 359-4650
Sampler's Signature: Scott Amorowicz	Sampler's Printed Name: Scott Amorowicz

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1 3 0 4/5

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STARS LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STARS LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ H/P ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	RSK-175	SOC	Alkalinity	Sulfide	REMARKS/ ALTERNATE DESCRIPTION
MW-403	480177	7/19	1045	W	1												X			
MW-205	480178	7/19	1730		1												X			
MW-403	480179	7/19	1045		1													X		
MW-205	480180	7/19	1730		1													X		
MW-205	480181	7/19	1730		2											X				
OWD-302	480182	7/19	1515		2											X				
MW-403	480183	7/19	1045		2											X				
MW-403	480202	7/19	1045		2										X					
OWD-302	480206	7/19	1515		2										X					
MW-205	480207	7/19	1730		2										X					

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr _____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
X I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO# 706065-006
BILL TO: SAME
ADDRESS
SUBMISSION #: R2107841

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Scott Amorowicz	Signature: WANDA SNOW	Signature:	Signature:	Signature:	Signature:
Printed Name: H&A	Printed Name: CAS	Printed Name: CA	Printed Name:	Printed Name:	Printed Name:
Firm: 7/20 9:05	Firm: 7/20/01 9:05AM	Firm:	Firm:	Firm:	Firm:
Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

#1 of 11

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SR #
CAS Contact

Project Name: CooperVision	Project Number: 70665-006
Project Manager: V. Dick	Report CC:
Company/Address: Haley & Aldrich, 200 Town Centre Drive Suite #2, Rochester, NY 14623-4264	
Phone #: (716) 359-9000	FAX#: (716) 359-4650
Sampler's Signature: [signature]	Sampler's Printed Name: Scott Ammaniacz/Andrew Cred

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☒ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SO4, Cl, NO2	NO2, NO3			REMARKS/ ALTERNATE DESCRIPTION
PRESERVATIVE						1								2		0	3			
MW-403	480236	7-19-01	10:45	W	1											X				
MW-205	480237	7-19-01	17:30	↓	1											X				
MW-205	480238	7-19-01	17:30	↓	1												X			
MW-403	480239	7-19-01	10:45	↓	1												X			
MW-403	480241	7-19-01	10:45	↓	1									X						
MW-205	480242	7-19-01	17:30	↓	1									X						
MW-2	480247	7-19-01	9:45	↓	3	X														
MW-205	480248	7-19-01	17:30	↓	3	X														
MW-401	480250	7-19-01	12:30	↓	3	X														
OWD-302	480251	7-19-01	15:15	↓	3	X														

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other ______

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
X I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO# 70665-006
BILL TO: SAME ADDRESS
R2107841
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: ______ CUSTODY SEALS: Y N

	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	[signature]	[signature]	[signature]			
Printed Name	Scott Ammaniacz	Wanda Snow	M. Hopzedel			
Firm	H&A	CAS				
Date/Time	7/20 905	7/20/01 9:05 Am				

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

#2991

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SR #

CAS Contact

Project Name: ~~Railcar Load Dock~~ CooperVision	Project Number: 70665-006
Project Manager: V. Dick	Report CC:
Company/Address: H&A 200 Town Centre Drive Suite 200 Rochester, NY 14623-4264	
Phone #: (716) 359-9000	FAX#: (716) 359-4650
Sampler's Signature:	Sampler's Printed Name: Scott Amrowicz

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1

NUMBER OF CONTAINERS

- ☒ GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP
- GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP
- GC VOA's ☐ 8021 ☐ 601/602
- PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082
- STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP
- STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP
- TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P
- WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.
- METALS, TOTAL (List in comments below)
- METALS, DISSOLVED (List in comments below)

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's 8260
MW-403	L4602168	7/19	1045	W	3	X
Trip Blank 7-19	4602169	7/19	—	W	2	X

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
☒ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
☒ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO: SAME
R2107841
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Scott Amrowicz	Printed Name: Wendy Snow	Printed Name: Mark Lester	Printed Name:	Printed Name:	Printed Name:
Firm: H&A	Firm: CAS	Firm:	Firm:	Firm:	Firm:
Date/Time: 7/20 905	Date/Time: 7/20/01 9:45am	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

#2984

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client H&A Submission Number R2107841

Cooler received on 7/20/01 by: MK COURIER: CAS UPS FEDEX CD&L CLIENT

1.	Were custody seals on outside of cooler?	YES / NO
2.	Were custody papers properly filled out (ink, signed, etc.)?	YES NO
3.	Did all bottles arrive in good condition (unbroken)?	YES NO
4.	Did any VOA vials have significant air bubbles?	YES NO N/A
5.	Were Ice or Ice packs present?	YES NO
6.	Where did the bottles originate?	CAS/ROC, CLIENT
7.	Temperature of cooler(s) upon receipt:	1

Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 7/20/01 9:15

Thermometer ID:_____ Temp Blank Sample Bottle Cooler Temp. IR Gun

If out of Temperature, Client Approval to Run Samples_____

Cooler Breakdown: Date: 7/20/01 by: MK

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	YES NO
2.	Did all bottle labels and tags agree with custody papers?	YES NO
3.	Were correct containers used for the tests indicated?	YES NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated	N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3	✓				
2	H_2SO_4	✓				
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH_____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

July 2001
Baseline
VOC/MNA/Gases

August 23, 2001

Mr. Vincent Dick
Haley & Aldrich of New York
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

PROJECT:COOPERVISION #70665-006
Submission #:R2107899

Dear Mr. Dick

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Karen Bunker

Karen Bunker
Project Manager

Enc.

Columbia Analytical Services inc.

1 Mustard ST.
Suite 250
Rochester, NY 14609

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client	: Haley & Aldrich of New York
Project Reference	: COOPERVISION #70665-006
Lab Submission #	: R2107899
Reported	: 08/23/01

Report Contains a total of 19 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

Columbia Analytical Services inc.

This report contains analytical results for the following samples:

Submission #: R2107899

Lab ID	Client ID
481356	MW-502
481357	MW-501
481371	MW-502
481372	MW-502
481393	MW-502
481397	MW-502
481400	MW-502

Case Narrative

Company: Haley & Aldrich
Project: Coopervision #70665-006
Submission #: R2107899

H&A collected water samples on 7/25/01 which were received at CAS on the same day as sampled, unbroken, packed in ice, at a cooler temperature of 3°C.

GC/MS VOLATILE ORGANICS

One water sample was analyzed for the Target Compound List of Volatile Organics by GC/MS Method 8260B from SW-846.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits.

Location MW-502 (CAS Order # 481356) required a dilution. The initial sample analysis contained a hit for 1,1-Dichloroethane, which was outside the standard calibration curve for this compound. The data has been flagged as "E". The sample was repeated at an appropriate dilution. Both sets of data are included in the report package.

The Acetone detected in sampleMW-502 was flagged with a "J" as estimated due to a high LCS recovery.

The Laboratory Blanks associated with these analyses were free from contamination.

The sample was run within the 14 day holding time for preserved sample vials for the method.

No other analytical or QC problems were encountered.

1 Mustard Street, Suite 250 ▪ Rochester, NY 14609-6925 ▪ Telephone (716) 288-5380 ▪ Fax (716) 288-8475

GC Volatile Organics

One water sample was analyzed for Ethane, Ethene, Methane and Propane by GC method RSK-175.

All associated QC was within limits for these samples.

Samples were run within holding time for the method.

The Method Blank was free from contamination.

No problems were encountered during the analysis.

Inorganic Analyses

One to two water samples were submitted for analysis for the following list of parameters: Alkalinity by method 310.1, Dissolved Organic Carbon by method 415.1, Chloride by IC method 300.0, Nitrate/Nitrite by method 353.1, Nitrite by method 353.2, Nitrate by calculation, Sulfate by IC method 300.0, Total Sulfide by method 376.1, and the ICP Metals Iron and Manganese by Method 6010B.

All were analyzed within proper holding times for the methodology.

All QC associated with the sample was within limits.

No analytical problems were encountered.

Columbia Analytical Services Inc.

Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester:	10145	NJ ID # in Rochester:	73004
CT ID # in Rochester:	PH0556	RI ID # in Rochester:	158
MA ID # in Rochester:	M-NY032	NH ID # in Rochester:	294198-A
AIHA # in Rochester:	7889		

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/24/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-502

Date Sampled : 07/24/01 11:15 **Order #:** 481356 **Sample Matrix:** WATER
Date Received: 07/25/01 **Submission #:** R2107899 **Analytical Run** 68018

DATE ANALYZED : 08/02/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	26 J	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	11	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	11	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	2800 E	UG/L
1,2-DICHLOROETHANE	5.0	12	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	6.3	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	100	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	102	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/23/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-502

Date Sampled : 07/24/01 11:15 **Order #:** 481356 **Sample Matrix:** WATER
Date Received: 07/25/01 **Submission #:** R2107899 **Analytical Run** 68018

DATE ANALYZED : 08/03/01
ANALYTICAL DILUTION: 500.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	10000 U	UG/L
BENZENE	5.0	2500 U	UG/L
BROMODICHLOROMETHANE	5.0	2500 U	UG/L
BROMOFORM	5.0	2500 U	UG/L
BROMOMETHANE	5.0	2500 U	UG/L
2-BUTANONE (MEK)	10	5000 U	UG/L
CARBON DISULFIDE	10	5000 U	UG/L
CARBON TETRACHLORIDE	5.0	2500 U	UG/L
CHLOROBENZENE	5.0	2500 U	UG/L
CHLOROETHANE	5.0	2500 U	UG/L
CHLOROFORM	5.0	2500 U	UG/L
CHLOROMETHANE	5.0	2500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHANE	5.0	9800	UG/L
1,2-DICHLOROETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHENE	5.0	2500 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	2500 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	2500 U	UG/L
1,2-DICHLOROPROPANE	5.0	2500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
ETHYLBENZENE	5.0	2500 U	UG/L
2-HEXANONE	10	5000 U	UG/L
METHYLENE CHLORIDE	5.0	2500 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	5000 U	UG/L
STYRENE	5.0	2500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	2500 U	UG/L
TETRACHLOROETHENE	5.0	2500 U	UG/L
TOLUENE	5.0	2500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	2500 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	2500 U	UG/L
TRICHLOROETHENE	5.0	2500 U	UG/L
VINYL CHLORIDE	5.0	2500 U	UG/L
O-XYLENE	5.0	2500 U	UG/L
M+P-XYLENE	5.0	2500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	99	%
TOLUENE-D8	(87 - 108 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	98	%

COLUMBIA ANALYTICAL SERVICES

Reported: 08/23/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-501

Date Sampled : 07/24/01 10:15 **Order #:** 481357 **Sample Matrix:** WATER
Date Received: 07/25/01 **Submission #:** R2107899

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL ALKALINITY	310.1	2.00	201	MG/L	08/06/01	10:30	0.0
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	07/26/01	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/23/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-502

Date Sampled : 07/25/01 08:30 **Order #:** 481371 **Sample Matrix:** WATER
Date Received: 07/25/01 **Submission #:** R2107899

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	8.76	MG/L	08/03/01	1.0
MANGANESE	6010B	0.0100	0.317	MG/L	08/03/01	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/24/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-502

Date Sampled : 07/25/01 08:35 **Order #:** 481372 **Sample Matrix:** WATER
Date Received: 07/25/01 **Submission #:** R2107899

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
CHLORIDE	300.0	0.100	246	MG/L	08/07/01	11:35	40.0
NITRITE NITROGEN	353.2	0.0100	0.0389	MG/L	07/25/01	16:21	1.0
SULFATE	300.0	0.200	183	MG/L	08/07/01	11:35	40.0
TOTAL ALKALINITY	310.1	2.00	112	MG/L	08/06/01	10:30	0.0
TOTAL SULFIDE	376.1	1.00	1.08	MG/L	07/26/01	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/23/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-502

Date Sampled : 07/25/01 08:25 **Order #:** 481393 **Sample Matrix:** WATER
Date Received: 07/25/01 **Submission #:** R2107899

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
NITRATE NITROGEN	353.2	0.0500	0.137	MG/L			1.0
NITRATE/NITRITE NITROGEN	353+35	0.0500	0.137	MG/L	07/27/01	09:23	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/23/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 486719 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 68018

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	98	%
TOLUENE-D8	(87 - 108 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	98	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/23/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 486723 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 68018

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/03/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	101	%
TOLUENE-D8	(87 - 108 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	98	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD MODIFIED RSK-175
Reported: 08/23/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 484876 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 67664

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

Lum Analytical Services INC.
An Employee-Owned Company
www.caslab.com

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 2

SDG #

CAS Contact

Project Name: CooperVision	Project Number: 70665-006
Project Manager: Vince Dick	Report CC:
Company/Address: Haley & Aldrich, 200 Town Centre Drive Suite #2, Rochester, NY 14623	
Phone #: (716) 359-9000	FAX#: (716) 359-4650
Sampler's Signature:	Sampler's Printed Name: S. Amrozowicz

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1 | 2 | 0 | 4/5 | 0 | 3

NUMBER OF CONTAINERS

GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP
GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP
GC VOA's ☐ 8021 ☐ 601/602
PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082
STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP
STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP
TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P
WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)
Alkalinity
Sulfide
SO_4 Cl NO_2
NO_3/NO_2
Sulfate

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	#	GC/MS VOA's 8260	METALS, TOTAL	METALS, DISSOLVED	Alkalinity	Sulfide	SO_4 Cl NO_2	NO_3/NO_2
MW-502	481356	7/24	11:15	WATER	3	X						
MW-501	481357	7/24	10:15	" "	1				X			
MW-601	481359	7/24	10:15	" "	1					X		
MW-502	481371	7/25	830	" "	1		X					
MW-502	481372	7/25	835	" "	1				X			
MW-502		7/25	835	" "	1					X		
MW-502		7/25	835	" "	1				X			
MW-502	481393	7/25	825	" "	1						X	

SPECIAL INSTRUCTIONS/COMMENTS
Metals Natural Attenuation

See QAPP ☐ Fax Prelims

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 24 hr ___ 48 hr ___ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
X I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
___ V. Speicalized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO# 70665-006
BILL TO: SAME
RQID 7899
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: S. Amrozowicz	Signature: WANDA SNOW	Signature: Andrew I Bando	Signature: WANDA SNOW	Signature:	Signature:
Printed Name: Haley & Aldrich	Printed Name: CAS	Printed Name: Haley & Aldrich	Printed Name: CAS	Printed Name:	Printed Name:
Firm: 9:20 7/25/01	Firm: 9:0	Firm: 9:21 7/25/01	Firm: 7/25/01 9:20	Firm:	Firm: CAS
Date/Time:	Date/Time: 7/25/01 9:05	Date/Time:	Date/Time:	Date/Time:	Date/Time: 7-25-01 9:20

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client H+A Submission Number R2107899

Cooler received on 7-25-01 by: KE COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?				YES (NO)	
2.	Were custody papers properly filled out (ink, signed, etc.)?				(YES) NO	
3.	Did all bottles arrive in good condition (unbroken)?				(YES) NO	
4.	Did any VOA vials have significant air bubbles?				YES (NO) N/A	
5.	Were (Ice) or Ice packs present?				(YES) NO	
6.	Where did the bottles originate?				(CAS/ROC) CLIENT	
7.	Temperature of cooler(s) upon receipt:	3°				
	Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
	If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 7-25-01 @ 9:34

Thermometer ID: IR-6un Temp Blank Sample Bottle Cooler Temp. (IR Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 7/25/01 by: MM

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
3.	Were correct containers used for the tests indicated?	(YES)	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3	✓				
2	H_2SO_4	✓				
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				
				--

Other Comments:

July 2001
Baseline
VOC/MNA/Gases

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

August 23, 2001

Mr. Vincent Dick
Haley & Aldrich of New York
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

PROJECT:COOPERVISION #70665-006
Submission #:R2107880

Dear Mr. Dick

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Karen Bunker

Karen Bunker
Project Manager

Enc.

Columbia Analytical Services inc.
1 Mustard ST.
Suite 250
Rochester, NY 14609

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Lab Submission # : R2107880
Reported : 08/23/01

Report Contains a total of 14 pages

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

01

Case Narrative

Company: Haley & Aldrich
Project: Coopervision #70665-006
Submission #: R2107880

CAS Order #	Client ID
480985	MW-501

H&A collected a water sample on 7/23/01 and was received at CAS on the same day as sampled, unbroken, packed in ice, at a cooler temperature of 1°C.

GC/MS VOLATILE ORGANICS

One water sample was analyzed for the Target Compound List of Volatile Organics by GC/MS Method 8260B from SW-846.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits.

Location MW-501 (CAS Order # 480985) required a dilution. The initial sample analysis contained a hit for 1,1-Dichloroethane which was outside the standard calibration curve for this compound. The data has been flagged as "E". The sample was repeated at an appropriate dilution. Both sets of data are included in the report package.

The Laboratory Blanks associated with these analyses were free from contamination.

The sample was run within the 14 day holding time for preserved sample vials for the method.

No other analytical or QC problems were encountered.

1 Mustard Street, Suite 250 ▪ Rochester, NY 14609-6925 ▪ Telephone (716) 288-5380 ▪ Fax (716) 288-8475

GC Volatile Organics

One water sample was analyzed for Ethane, Ethene, Methane and Propane by GC method RSK-175.

All associated QC was within limits for these samples.

Samples were run within holding time for the method.

The Method Blank was free from contamination.

No problems were encountered during the analysis.

Inorganic Analyses

One water sample was submitted for analysis for the following list of parameters: Dissolved Organic Carbon by method 415.1, Chloride by IC method 300.0, Nitrate/Nitrite by method 353.1, Nitrite by method 353.2, Nitrate by calculation, Sulfate by IC method 300.0, and the ICP Metals Iron and Manganese by Method 6010B.

All were analyzed within proper holding times for the methodology.

All QC associated with the sample was within limits.

No analytical problems were encountered.

Columbia Analytical Services Inc.

Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester:	10145	NJ ID # in Rochester:	73004
CT ID # in Rochester:	PH0556	RI ID # in Rochester:	158
MA ID # in Rochester:	M-NY032	NH ID # in Rochester:	294198-A
AIHA # in Rochester:	7889		

COLUMBIA ANALYTICAL SERVICES

Reported: 08/23/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-501

Date Sampled : 07/23/01 14:30 **Order #:** 480985 **Sample Matrix:** WATER
Date Received: 07/23/01 **Submission #:** R2107880

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
CHLORIDE	300.0	0.100	355	MG/L	08/07/01	11:23	100.0
DISSOLVED ORGANIC CARBONS	415.1.	1.00	3.38	MG/L	08/15/01	13:00	1.0
NITRATE NITROGEN	353.2	0.0500	0.0630	MG/L			1.0
NITRATE/NITRITE NITROGEN	353+35	0.0500	0.0630	MG/L	07/27/01	09:23	1.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	07/25/01	09:41	1.0
SULFATE	300.0	0.200	40.2	MG/L	08/06/01	13:56	10.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/23/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-501

Date Sampled : 07/23/01 14:30 **Order #:** 480985 **Sample Matrix:** WATER
Date Received: 07/23/01 **Submission #:** R2107880

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	462	MG/L	08/03/01	10.0
MANGANESE	6010B	0.0100	11.8	MG/L	08/03/01	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/23/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-501

Date Sampled : 07/23/01 14:30 **Order #:** 480985 **Sample Matrix:** WATER
Date Received: 07/23/01 **Submission #:** R2107880 **Analytical Run** 68018

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/02/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	32	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	2100 E	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	9.8	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	100	%
TOLUENE-D8	(87 - 108 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	103	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/23/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-501

Date Sampled : 07/23/01 14:30 **Order #:** 480985 **Sample Matrix:** WATER
Date Received: 07/23/01 **Submission #:** R2107880 **Analytical Run** 68018

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/03/01			
ANALYTICAL DILUTION: 500.00			
ACETONE	20	10000 U	UG/L
BENZENE	5.0	2500 U	UG/L
BROMODICHLOROMETHANE	5.0	2500 U	UG/L
BROMOFORM	5.0	2500 U	UG/L
BROMOMETHANE	5.0	2500 U	UG/L
2-BUTANONE (MEK)	10	5000 U	UG/L
CARBON DISULFIDE	10	5000 U	UG/L
CARBON TETRACHLORIDE	5.0	2500 U	UG/L
CHLOROBENZENE	5.0	2500 U	UG/L
CHLOROETHANE	5.0	2500 U	UG/L
CHLOROFORM	5.0	2500 U	UG/L
CHLOROMETHANE	5.0	2500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHANE	5.0	5300	UG/L
1,2-DICHLOROETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHENE	5.0	2500 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	2500 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	2500 U	UG/L
1,2-DICHLOROPROPANE	5.0	2500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
ETHYLBENZENE	5.0	2500 U	UG/L
2-HEXANONE	10	5000 U	UG/L
METHYLENE CHLORIDE	5.0	2500 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	5000 U	UG/L
STYRENE	5.0	2500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	2500 U	UG/L
TETRACHLOROETHENE	5.0	2500 U	UG/L
TOLUENE	5.0	2500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	2500 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	2500 U	UG/L
TRICHLOROETHENE	5.0	2500 U	UG/L
VINYL CHLORIDE	5.0	2500 U	UG/L
O-XYLENE	5.0	2500 U	UG/L
M+P-XYLENE	5.0	2500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	99	%
TOLUENE-D8	(87 - 108 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD MODIFIED RSK-175
Reported: 08/23/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-501

Date Sampled : 07/23/01 14:30 **Order #:** 480985 **Sample Matrix:** WATER
Date Received: 07/23/01 **Submission #:** R2107880 **Analytical Run** 67664

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	5.0	UG/L
ETHYLENE	1.0	4.5	UG/L
METHANE	2.0	8.1	UG/L
PROPANE	1.0	3.0	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/23/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 486719 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 68018

DATE ANALYZED : 08/01/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	98	%
TOLUENE-D8	(87 - 108 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	98	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/23/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 486723 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 68018

DATE ANALYZED : 08/03/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	101	%
TOLUENE-D8	(87 - 108 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	98	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD MODIFIED RSK-175
Reported: 08/23/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 484876 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 67664

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

Lum Analytical Services INC.
An Employee-Owned Company
www.caslab.com

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 1

SR #

CAS Contact

Project Name: Coopervision	Project Number: 70665-006
Project Manager: Vince Dick	Report CC:
Company/Address: Haley & Aldrich, 200 Town Centre Dr. Suite 2, Rochester, NY 14623	
Phone #: 716-359-9000	FAX#: 716-359-9650
Sampler's Signature: M. Bando / Scott Armonica	Sampler's Printed Name: Andrew Bando / Scott Armonica

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1 — 0 3 1 3

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☒8260 ☐624 ☐CLP	GC/MS SVOA's ☐8270 ☐625 ☐CLP	GC VOA's ☐8021 ☐601/602	PESTICIDES/ PCB's ☐8081 ☐608 ☐CLP ☐8082	STARS LIST 8021 VOA's ☐TOTAL ☐TCLP	STARS LIST 8270 SVOA's ☐TOTAL ☐TCLP	TCLP ☐VOA's ☐METALS	WASTE CHARACTERIZATION ☐SVOA's ☐H/P ☐React ☐Corros. ☐Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SO4, Cl, NO2	H2SO4 5oC	RSK-174	NO3/NO2
MW-501		07/23	14:30	W	3	X													
MW-501		07/23/01	14:30		1											X			
MW-501		07/23/01	14:30		2												X		
MW-501	480985	07/23/01	14:30		2													X	
MW-501		07/23/01	14:30		1														X
~~MW-501~~		~~07/23/01~~	~~14:30~~		~~1~~								X						
MW-501		7/23	1430	W	1								X						

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals ~~Natural Attenuation~~
Natural ~~Attenuation~~
Fax Prelims
See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr _____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
X I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO: SAME
R2107880
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 1°
CUSTODY SEALS: Y (N)

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Joni Janson	Signature	KMC	Signature	Signature
Printed Name: Scott Armonica	Printed Name: Joni Janson	Printed Name	Printed Name: Brian Colla	Printed Name	Printed Name
Firm: A&A	Firm: CAS	Firm	Firm: CAS	Firm	Firm
Date/Time: 7/23/01 1629	Date/Time: 7/23/01 16:30	Date/Time	Date/Time: 7/23/01 1630	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client H&A Submission Number R010 7880

Cooler received on 7/23/01 by: BE COURIER: CAS UPS FEDEX CD&L (CLIENT)

1. Were custody seals on outside of cooler? YES (NO)
2. Were custody papers properly filled out (ink, signed, etc.)? (YES) NO
3. Did all bottles arrive in good condition (unbroken)? (YES) NO
4. Did any VOA vials have significant air bubbles? YES (NO) N/A
5. Were Ice or Ice packs present? (YES) NO
6. Where did the bottles originate? (CAS/ROC,) CLIENT
7. Temperature of cooler(s) upon receipt: 1°

Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 7/23/01 1630

Thermometer ID: Temp Blank Sample Bottle Cooler Temp. (IR Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 7-24-01 by: CMC

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3		X	980985	M178002GC HNO_3 exp. 05/02	3 mL
2	H_2SO_4	X				
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				
				--

Other Comments:

70665-006
Blue Lab Folder
July 2001
Baseline
VOCs

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

August 21, 2001

Mr. Vincent Dick
Haley & Aldrich of New York
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

PROJECT:COOPERVISION #70665-006
Submission #:R2107810

Dear Mr. Dick:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 08/03/01 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Karen Bunker

Karen Bunker
Project Manager

Enc.

1 Mustard St. • Suite 250 • Rochester, NY 14609 • Tele:(716)288-5380 • Fax:(716)288-8475

Columbia Analytical Services inc.
1 Mustard ST.
Suite 250
Rochester, NY 14609

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client	: Haley & Aldrich of New York
Project Reference	: COOPERVISION #70665-006
Lab Submission #	: R2107810
Reported	: 08/07/01

Report Contains a total of 14 pages

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

Columbia Analytical Services Inc.

This report contains analytical results for the following samples:

Submission #: R2107810

Lab ID	Client ID
479702	MW-204
479704	MW-203
479706	OW-304
479707	MW-402
479708	MW-202
479709	TRIP BLANK

Case Narrative

Company: Haley & Aldrich
Project: Coopervision
Submission #: R2107810

H&A collected water samples on 7/18/01 and were received at CAS on the same day as sampled unbroken, packed in ice, at a cooler temperature of 9°C.

VOLATILE ORGANICS

Six water samples, including 1 Trip Blank were analyzed for the Target Compound List of Volatile Organics by Method 8260B from SW-846.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits.

All reference check recoveries were within limits.

The Laboratory Blanks associated with these analyses were free from contamination.

No other analytical or QC problems were encountered.

1 Mustard Street, Suite 250 ▪ Rochester, NY 14609-6925 ▪ Telephone (716) 288-5380 ▪ Fax (716) 288-8475

Columbia Analytical Services Inc.

Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester:	10145	NJ ID # in Rochester:	73004
CT ID # in Rochester:	PH0556	RI ID # in Rochester:	158
MA ID # in Rochester:	M-NY032	NH ID # in Rochester:	294198-A
AIHA # in Rochester:	7889		

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/07/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-204

Date Sampled : 07/18/01 08:45 **Order #:** 479702 **Sample Matrix:** WATER
Date Received: 07/18/01 **Submission #:** R2107810 **Analytical Run** 67463

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	12	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	8.8	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	10	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	100	%
TOLUENE-D8	(87 - 108 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/07/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-203

Date Sampled : 07/18/01 13:45 **Order #:** 479704 **Sample Matrix:** WATER
Date Received: 07/18/01 **Submission #:** R2107810 **Analytical Run** 67463

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	99	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	102	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/07/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : OW-304

Date Sampled : 07/18/01 14:55 **Order #:** 479706 **Sample Matrix:** WATER
Date Received: 07/18/01 **Submission #:** R2107810 **Analytical Run** 67463

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	24	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	14	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	28	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	102	%
TOLUENE-D8	(87 - 108 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	104	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/07/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-402

Date Sampled : 07/18/01 10:35 **Order #:** 479707 **Sample Matrix:** WATER
Date Received: 07/18/01 **Submission #:** R2107810 **Analytical Run** 67463

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	100	%
TOLUENE-D8	(87 - 108 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/07/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : MW-202

Date Sampled : 07/18/01 11:45 **Order #:** 479708 **Sample Matrix:** WATER
Date Received: 07/18/01 **Submission #:** R2107810 **Analytical Run** 67463

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	100	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	102	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/07/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : TRIP BLANK

Date Sampled : 07/18/01 **Order #:** 479709 **Sample Matrix:** WATER
Date Received: 07/18/01 **Submission #:** R2107810 **Analytical Run** 67463

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	102	%
TOLUENE-D8	(87 - 108 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY REFERENCE SPIKE SUMMARY

REFERENCE ORDER #: 483956 ANALYTICAL RUN # : 67463

DATE ANALYZED : 8/ 1/2001
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
ACETONE	20.0	67	50 - 150
BENZENE	20.0	107	70 - 130
BROMODICHLOROMETHANE	20.0	100	70 - 130
BROMOFORM	20.0	95	70 - 130
BROMOMETHANE	20.0	110	50 - 150
2-BUTANONE (MEK)	20.0	83	50 - 150
CARBON DISULFIDE	20.0	95	70 - 130
CARBON TETRACHLORIDE	20.0	107	70 - 130
CHLOROBENZENE	20.0	105	70 - 130
CHLOROETHANE	20.0	107	70 - 130
CHLOROFORM	20.0	103	70 - 130
CHLOROMETHANE	20.0	117	70 - 130
DIBROMOCHLOROMETHANE	20.0	97	70 - 130
1,1-DICHLOROETHANE	20.0	111	70 - 130
1,2-DICHLOROETHANE	20.0	100	70 - 130
1,1-DICHLOROETHENE	20.0	107	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	100	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	103	70 - 130
1,2-DICHLOROPROPANE	20.0	105	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	98	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	98	70 - 130
ETHYLBENZENE	20.0	107	70 - 130
2-HEXANONE	20.0	88	70 - 130
METHYLENE CHLORIDE	20.0	98	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	93	70 - 130
STYRENE	20.0	102	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	104	70 - 130
TETRACHLOROETHENE	20.0	106	70 - 130
TOLUENE	20.0	104	70 - 130
1,1,1-TRICHLOROETHANE	20.0	106	70 - 130
1,1,2-TRICHLOROETHANE	20.0	95	70 - 130
TRICHLOROETHENE	20.0	101	70 - 130
VINYL CHLORIDE	20.0	116	70 - 130
O-XYLENE	20.0	108	70 - 130
M+P-XYLENE	40.0	108	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 483955 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 67463

DATE ANALYZED : 08/01/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	99	%
TOLUENE-D8	(87 - 108 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	99	%

Columbia Analytical Services, Inc.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 1

SDG #

CAS Contact

Project Name: Coopervision	Project Number: 70665-006
Project Manager: Vince Dick	Report CC:
Company/Address: H & A 200 Town Centre Drive Suite #2 Rochester, NY 14623	
Phone #: 359-4650	FAX#: 359-4650
Sampler's Signature: Andrew Bando	Sampler's Printed Name: Andrew Bando Scott Amrozowicz

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1

NUMBER OF CONTAINERS

GC/MS VOA's 8260 ☐ 624 ☐ CLP
GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP
GC VOA's ☐ 8021 ☐ 601/602
PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082
STARS LIST 8021 VOA's ☐ TOTAL ☐ TCLP
STARS LIST 8270 SVOA's ☐ TOTAL ☐ TCLP
TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P
WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's 8260
MW-204	479702	7/18	845	WATER	3	X
MW-203	479704		1345		3	X
OW-304	479706		1455		3	X
MW-402	479707		1635		3	X
MW-202	479708	↓	1145	↓	3	X
	479709					
Trip Blank 7-18	↓	7/18	—	WATER	3	X

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐ Fax Prelims.

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr _____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO: CAMP
RQ107810
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 9°C CUSTODY SEALS: Y (N)

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Andrew Bando	Signature: Gregory P. Esmerino	Signature	Signature	Signature	Signature
Printed Name: Andrew Bando	Printed Name: Gregory P. Esmerino	Printed Name	Printed Name	Printed Name	Printed Name
Firm: H & A	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 7-18-01 5:00pm	Date/Time: 7-18-01 17:00	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

#0610

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client H+A Submission Number R2107610

Cooler received on 7-18-01 by: JE COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?					YES (NO)
2.	Were custody papers properly filled out (ink, signed, etc.)?					(YES) NO
3.	Did all bottles arrive in good condition (unbroken)?					(YES) NO
4.	Did any VOA vials have significant air bubbles?					YES (NO) N/A
5.	Were (Ice) or Ice packs present?					(YES) NO
6.	Where did the bottles originate?					(CAS/ROC) CLIENT
7.	Temperature of cooler(s) upon receipt:	9°				
	Is the temperature within 0° - 6° C?:	Yes ☐	Yes ☐	Yes ☐	Yes ☐	Yes ☐
	If No, Explain Below	No ☒	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 7-18-01 @ 17:03

Thermometer ID: IR-6un Temp Blank Sample Bottle Cooler Temp. (IR Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 7-19-01 by: CMC

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?		(YES) NO
2.	Did all bottle labels and tags agree with custody papers?		(YES) NO
3.	Were correct containers used for the tests indicated?		(YES) NO
4.	Air Samples: Cassettes / Tubes Intact	Canisters Pressurized	Tedlar® Bags Inflated (N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				
				--

Other Comments:

July 2001
Baseline
VOC/Gases/MW#

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

August 21, 2001

Mr. Vincent Dick
Haley & Aldrich of New York
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

PROJECT:COOPERVISION #70665-006
Submission #:R2107866

Dear Mr. Dick

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Karen Bunker

Karen Bunker
Project Manager

Enc.

1 Mustard St. • Suite 250 • Rochester, NY 14609 • Tele:(716)288-5380 • Fax:(716)288-8475

Columbia Analytical Services inc.

1 Mustard ST.
Suite 250
Rochester, NY 14609

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client	: Haley & Aldrich of New York
Project Reference	: COOPERVISION #70665-006
Lab Submission #	: R2107866
Reported	: 08/17/01

Report Contains a total of 14 pages

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

Case Narrative

Company: Haley & Aldrich
Project: Coopervision #70665-006
Submission #: R2107866

H&A collected water samples on 7/20/01 and were received at CAS on the same day as sampled unbroken, packed in ice, at a cooler temperature of 0°C.

VOLATILE ORGANICS

Two water samples, including 1 Trip Blank were analyzed for the Target Compound List of Volatile Organics by Method 8260B from SW-846.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits.

Location OWS-302 (CAS Order # 480695) required a dilution. The initial analysis was outside the standard calibration curve for 1,1-Dichloroethane, which was flagged as "E". The sample was repeated at 1/2000. Both sets of data are included in the report package.

The Laboratory Blanks associated with these analyses were free from contamination.

No other analytical or QC problems were encountered.

INORGANICS

One water sample was submitted for analysis for the following list of parameters: Total Alkalinity by method 310.1, Chloride by IC method 300.0, Nitrate/Nitrite by method 353.1, Nitrite by method 353.2, Nitrate by calculation, Sulfate by IC method 300.0, Total Sulfide by Method 376.1, and the ICP Metals Iron and Manganese by Method 6010B.

All were analyzed within proper holding times for the methodology.

All QC associated with the sample was within limits.

No analytical problems were encountered.

1 Mustard Street, Suite 250 ▪ Rochester, NY 14609-6925 ▪ Telephone (716) 288-5380 ▪ Fax (716) 288-8475

Columbia Analytical Services inc.

This report contains analytical results for the following samples:

Submission #: R2107866

Lab ID	Client ID
480693	OWD-302
480694	OWD-302
480695	OWS-302
480697	TRIP BLANK

Columbia Analytical Services Inc.

Effective 04/01/96

CAS LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

CAS Lab ID # for State Certifications

NY ID # in Rochester:	10145	NJ ID # in Rochester:	73004
CT ID # in Rochester:	PH0556	RI ID # in Rochester:	158
MA ID # in Rochester:	M-NY032	NH ID # in Rochester:	294198-A
AIHA # in Rochester:	7889		

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : OWD-302

Date Sampled : 07/20/01 10:30 **Order #:** 480693 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107866

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
CHLORIDE	300.0	0.100	55.1	MG/L	08/06/01	13:44	10.0
NITRATE NITROGEN	353.2	0.0500	0.102	MG/L			1.0
NITRATE/NITRITE NITROGEN	353+35	0.0500	0.204	MG/L	07/27/01	09:23	1.0
NITRITE NITROGEN	353.2	0.0100	0.102	MG/L	07/20/01	17:31	1.0
SULFATE	300.0	0.200	850	MG/L	08/07/01	11:10	100.0
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	07/26/01	14:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : OWD-302

Date Sampled : 07/20/01 10:30 **Order #:** 480693 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107866

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	5.47	MG/L	07/26/01	1.0
MANGANESE	6010B	0.0100	0.0589	MG/L	07/26/01	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : OWD-302

Date Sampled : 07/20/01 10:40 **Order #:** 480694 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107866

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL ALKALINITY	310.1	2.00	86.0	MG/L	08/02/01	13:00	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : OWS-302

Date Sampled : 07/20/01 10:45 **Order #:** 480695 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107866 **Analytical Run** 68018

DATE ANALYZED : 08/02/01
ANALYTICAL DILUTION: 500.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	10000 U	UG/L
BENZENE	5.0	2500 U	UG/L
BROMODICHLOROMETHANE	5.0	2500 U	UG/L
BROMOFORM	5.0	2500 U	UG/L
BROMOMETHANE	5.0	2500 U	UG/L
2-BUTANONE (MEK)	10	5000 U	UG/L
CARBON DISULFIDE	10	5000 U	UG/L
CARBON TETRACHLORIDE	5.0	2500 U	UG/L
CHLOROBENZENE	5.0	2500 U	UG/L
CHLOROETHANE	5.0	2500 U	UG/L
CHLOROFORM	5.0	2500 U	UG/L
CHLOROMETHANE	5.0	2500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHANE	5.0	200000 E	UG/L
1,2-DICHLOROETHANE	5.0	2500 U	UG/L
1,1-DICHLOROETHENE	5.0	2500 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	2500 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	2500 U	UG/L
1,2-DICHLOROPROPANE	5.0	2500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	2500 U	UG/L
ETHYLBENZENE	5.0	2500 U	UG/L
2-HEXANONE	10	5000 U	UG/L
METHYLENE CHLORIDE	5.0	2500 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	5000 U	UG/L
STYRENE	5.0	2500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	2500 U	UG/L
TETRACHLOROETHENE	5.0	2500 U	UG/L
TOLUENE	5.0	2500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	4000	UG/L
1,1,2-TRICHLOROETHANE	5.0	2500 U	UG/L
TRICHLOROETHENE	5.0	2500 U	UG/L
VINYL CHLORIDE	5.0	2500 U	UG/L
O-XYLENE	5.0	2500 U	UG/L
M+P-XYLENE	5.0	2500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	99	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	103	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : OWS-302

Date Sampled : 07/20/01 10:45 **Order #:** 480695 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107866 **Analytical Run** 68018

DATE ANALYZED : 08/02/01
ANALYTICAL DILUTION: 2000.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	40000 U	UG/L
BENZENE	5.0	10000 U	UG/L
BROMODICHLOROMETHANE	5.0	10000 U	UG/L
BROMOFORM	5.0	10000 U	UG/L
BROMOMETHANE	5.0	10000 U	UG/L
2-BUTANONE (MEK)	10	20000 U	UG/L
CARBON DISULFIDE	10	20000 U	UG/L
CARBON TETRACHLORIDE	5.0	10000 U	UG/L
CHLOROBENZENE	5.0	10000 U	UG/L
CHLOROETHANE	5.0	10000 U	UG/L
CHLOROFORM	5.0	10000 U	UG/L
CHLOROMETHANE	5.0	10000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	10000 U	UG/L
1,1-DICHLOROETHANE	5.0	180000	UG/L
1,2-DICHLOROETHANE	5.0	10000 U	UG/L
1,1-DICHLOROETHENE	5.0	10000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	10000 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	10000 U	UG/L
1,2-DICHLOROPROPANE	5.0	10000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10000 U	UG/L
ETHYLBENZENE	5.0	10000 U	UG/L
2-HEXANONE	10	20000 U	UG/L
METHYLENE CHLORIDE	5.0	10000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20000 U	UG/L
STYRENE	5.0	10000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10000 U	UG/L
TETRACHLOROETHENE	5.0	10000 U	UG/L
TOLUENE	5.0	10000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	10000 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	10000 U	UG/L
TRICHLOROETHENE	5.0	10000 U	UG/L
VINYL CHLORIDE	5.0	10000 U	UG/L
O-XYLENE	5.0	10000 U	UG/L
M+P-XYLENE	5.0	10000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	102	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	99	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-006
Client Sample ID : TRIP BLANK

Date Sampled : 07/20/01 **Order #:** 480697 **Sample Matrix:** WATER
Date Received: 07/20/01 **Submission #:** R2107866 **Analytical Run** 68018

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/02/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	100	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	103	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 486719 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 68018

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	98	%
TOLUENE-D8	(87 - 108 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	98	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 08/17/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 486721 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 68018

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/02/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	101	%
TOLUENE-D8	(87 - 108 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	101	%

Columbia Analytical Services INC.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475

PAGE 1 OF ~~2~~ 1

S...
CAS Contact

Project Name: Coopervision	Project Number: 70665-006
Project Manager: Vince Dick	Report CC:
Company/Address: Haley & Aldrich, 200 Town Centre Dr. Suite 2, Rochester, NY 14623	
Phone #: 716-359-9060	FAX#: 716-359-4650
Sampler's Signature: A.I. Bando	Sampler's Printed Name: Andrew Bando

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☒8260 ☐624 ☐CLP	GC/MS SVOA's ☐8270 ☐625 ☐CLP	GC VOA's ☐8021 ☐601/602	PESTICIDES/PCB's ☐8081 ☐608 ☐CLP ☐8082	STAR'S LIST 8021 VOA's ☐TOTAL ☐TCLP	STAR'S LIST 8270 SVOA's ☐TOTAL ☐TCLP	TCLP ☐VOA's ☐SVOA's ☐METALS	WASTE CHARACTERIZATION ☐React ☐Corros. ☐Ignit. ☐H/P	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	~~SO2~~ SO4, Cl, NO2	~~RSK-175~~ NO3/NO2	Sulfide	Alkalinity	REMARKS/ ALTERNATE DESCRIPTION
PRESERVATIVE						1										0	3	4/5	0	
~~MW-205~~ AB		~~7-19-01~~ AB	~~17:30~~	~~Water~~	~~3~~ AB	~~X~~														
OWD-302	480693	7-20-01	10:30	W	1											X				
OWD-302		7-20-01	10:30		1												X			
OWD-302		7-20-01	10:30		1													X		
OWD-302	480694	7-20-01	11:40		1														X	
OWS-302	480695	7-20-01	10:45		3	X														
OWD-302		7-20-01	10:30		1									X						
Trip Blank	480697	7-20-01		↓	1	X														

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other ______

SPECIAL INSTRUCTIONS/COMMENTS
Metals Natural Attenuation

Fax Prelim.

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
70665-006
PO#
BILL TO: SAME
R2107866
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 0 CUSTODY SEALS: Y (N)

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: A.I. Bando	Signature: Joni Janson	Signature:	Signature: [signature]	Signature:	Signature:
Printed Name: Andrew I. Bando	Printed Name: Joni Janson	Printed Name:	Printed Name: Gregory O. Emerian	Printed Name:	Printed Name:
Firm: H&A	Firm: CAS	Firm:	Firm: CAS	Firm:	Firm:
Date/Time: 7-20-01 16:20	Date/Time: 7/20/01 16:20	Date/Time:	Date/Time: ~~7-23-01~~ 7-20-01 16:20	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

#0812

Oct 2001

H&A OF NY

JAN 14 2002

RECEIVED

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

November 27, 2001

Mr. Vincent Dick
Haley & Aldrich of New York
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

PROJECT:COOPERVISION #70665-007
Submission #:R2109126

Dear Mr. Dick

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Karen Bunker

Karen Bunker
Project Manager

Enc.

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Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client HAA Submission Number HAA R2107866

Cooler received on 7/26/01 by: MK COURIER: CAS UPS FEDEX CD&L (CLIENT)

1. Were custody seals on outside of cooler? YES (NO)
2. Were custody papers properly filled out (ink, signed, etc.)? (YES) NO
3. Did all bottles arrive in good condition (unbroken)? (YES) NO
4. Did any VOA vials have significant air bubbles? YES (NO) N/A
5. Were Ice or Ice packs present? (YES) NO
6. Where did the bottles originate? (CAS/ROC,) CLIENT
7. Temperature of cooler(s) upon receipt: (2)

Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 7/26/01 1700

Thermometer ID: IR-Gun Temp Blank Sample Bottle Cooler Temp. (IR Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 7-23-01 by: HE

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3		✓	480693	HNO_3 Lot M178008886 exp 05/02	3ml
2	H_2SO_4	✓				
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				
				--

Other Comments:

Columbia Analytical Services inc.

1 Mustard ST.
Suite 250
Rochester, NY 14609

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Lab Submission # : R2109126
Reported : 11/27/01

Report Contains a total of 40 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. Michael K. Perry

01

Columbia Analytical Services Inc.

This report contains analytical results for the following samples:

Submission #: R2109126

Lab ID	Client ID
502283	MW-2
502284	MW-205
502285	OWD-302D
502286	OWD-302S
502287	MW-502
502288	MW-401
502289	MW-402
502292	MW-501
502294	MW-202
502295	MW-304
502298	MW-203
502299	MW-204

Case Narrative

Company: Haley & Aldrich
Project: Coopervision #70665-007
Submission #: R2109126

H&A collected water samples on 10/18/01. Samples were received at CAS on the same day as sampled, unbroken, packed in ice, at a cooler temperature of 2°C.

GC/MS VOLATILE ORGANICS

Twelve water samples were analyzed for the Target Compound List of Volatile Organics by GC/MS Method 8260B from SW-846.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

Surrogate standard recoveries were within acceptance limits.

Several samples required dilutions to bring compounds within the calibration range of the standards. The data has been flagged as "E" for these compounds. The samples were repeated at appropriate dilutions. Both sets of data are included in the report package.

The Laboratory Blanks associated with these analyses were free from contamination.

The samples were run within the 14 day holding time for preserved sample vials for the method.

No other analytical or QC problems were encountered.

GC Volatile Organics

Five water samples were analyzed for Ethane, Ethene, Methane and Propane by modified GC method RSK-175.

All associated QC was within limits for these samples.

Samples were run within holding time for the method.

The Method Blank was free from contamination.

No problems were encountered during the analysis.

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Inorganic Analyses

Four water samples were submitted for analysis for the following list of parameters: Chloride by IC method 300.0, Nitrate by method 300.0, Nitrite by method 353.2, Sulfate by IC method 300.0, Dissolved Organic Carbon by method 415.1, Alkalinity by method 310.1, and Sulfide by method 376.1. Three of the above locations also required total Iron by ICP Method 6010B.

All were analyzed within proper holding times for the methodology.

All QC associated with the sample was within limits.

For location MW-501 (CAS Order # 502292),the Sulfide result is flagged as an estimate because it reflects only the supernatant portion of the sample. The precipitate portion resembled "muddy water", therefore no color change could be seen to determine the endpoint in the titration.

No other analytical problems were encountered.

Columbia Analytical Services INC.

An Employee - Owned Company

Effective 10/26/01

CAS LIST OF QUALIFIERS

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Inorganic Duplicate analysis not within control limits. Flag the entire batch - Inorganic analysis only

* - Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
New York ID # 10145
Connecticut ID # PH0556
Massachusetts ID # M-NY032
American Industrial Hygiene Assoc. ID #:100314
Navy Facilities Engineering Service Center Approved

Delaware Accredited
New Jersey ID # 73004
Rhode Island ID # 158
New Hampshire ID # 294100 A/B
West Virginia ID # 292
Florida ID # E87674

ACCREDITED IN ACCORDANCE WITH nelac

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-2

Date Sampled : 10/18/01 **Order #:** 502283 **Sample Matrix:** WATER
Date Received: 10/18/01 **Submission #:** R2109126 **Analytical Run** 70630

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/26/01			
ANALYTICAL DILUTION: 25.00			
ACETONE	20	500 U	UG/L
BENZENE	5.0	130 U	UG/L
BROMODICHLOROMETHANE	5.0	130 U	UG/L
BROMOFORM	5.0	130 U	UG/L
BROMOMETHANE	5.0	130 U	UG/L
2-BUTANONE (MEK)	10	250 U	UG/L
CARBON DISULFIDE	10	250 U	UG/L
CARBON TETRACHLORIDE	5.0	130 U	UG/L
CHLOROBENZENE	5.0	130 U	UG/L
CHLOROETHANE	5.0	130 U	UG/L
CHLOROFORM	5.0	130 U	UG/L
CHLOROMETHANE	5.0	130 U	UG/L
DIBROMOCHLOROMETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHANE	5.0	300	UG/L
1,2-DICHLOROETHANE	5.0	130 U	UG/L
1,1-DICHLOROETHENE	5.0	460	UG/L
CIS-1,2-DICHLOROETHENE	5.0	130 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	130 U	UG/L
1,2-DICHLOROPROPANE	5.0	130 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	130 U	UG/L
ETHYLBENZENE	5.0	130 U	UG/L
2-HEXANONE	10	250 U	UG/L
METHYLENE CHLORIDE	5.0	130 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	250 U	UG/L
STYRENE	5.0	130 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	130 U	UG/L
TETRACHLOROETHENE	5.0	130 U	UG/L
TOLUENE	5.0	130 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	3000	UG/L
1,1,2-TRICHLOROETHANE	5.0	130 U	UG/L
TRICHLOROETHENE	5.0	130 U	UG/L
VINYL CHLORIDE	5.0	130 U	UG/L
O-XYLENE	5.0	130 U	UG/L
M+P-XYLENE	5.0	130 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	105	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	97	%

COLUMBIA ANALYTICAL SERVICES

Reported: 11/27/01

aley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-205

Date Sampled : 10/18/01 Order #: 502284 Sample Matrix: WATER
Date Received: 10/18/01 Submission #: R2109126

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
CHLORIDE	300.0	0.100	708	MG/L	11/20/01	12:17	100.0
DISSOLVED ORGANIC CARBONS	415.1.	1.00	55.2	MG/L	11/20/01	18:27	10.0
NITRATE NITROGEN	300.0	0.0500	0.500 U	MG/L	10/19/01	14:57	10.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	10/19/01	08:27	1.0
SULFATE	300.0	0.200	91.0	MG/L	11/20/01	12:05	20.0
TOTAL ALKALINITY	310.1	2.00	378	MG/L	11/20/01	15:00	1.0
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	10/22/01	15:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/27/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-205

Date Sampled : 10/18/01 Order #: 502284 Sample Matrix: WATER
Date Received: 10/18/01 Submission #: R2109126

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	47.3	MG/L	10/29/01	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-205

Date Sampled : 10/18/01 **Order #:** 502284 **Sample Matrix:** WATER
Date Received: 10/18/01 **Submission #:** R2109126 **Analytical Run** 70630

DATE ANALYZED : 10/26/01
ANALYTICAL DILUTION: 250.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	5000 U	UG/L
BENZENE	5.0	1300 U	UG/L
BROMODICHLOROMETHANE	5.0	1300 U	UG/L
BROMOFORM	5.0	1300 U	UG/L
BROMOMETHANE	5.0	1300 U	UG/L
2-BUTANONE (MEK)	10	2500 U	UG/L
CARBON DISULFIDE	10	2500 U	UG/L
CARBON TETRACHLORIDE	5.0	1300 U	UG/L
CHLOROBENZENE	5.0	1300 U	UG/L
CHLOROETHANE	5.0	1300 U	UG/L
CHLOROFORM	5.0	1300 U	UG/L
CHLOROMETHANE	5.0	1300 U	UG/L
DIBROMOCHLOROMETHANE	5.0	1300 U	UG/L
1,1-DICHLOROETHANE	5.0	140000 E	UG/L
1,2-DICHLOROETHANE	5.0	1300 U	UG/L
1,1-DICHLOROETHENE	5.0	1300 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	1300 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	1300 U	UG/L
1,2-DICHLOROPROPANE	5.0	1300 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	1300 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	1300 U	UG/L
ETHYLBENZENE	5.0	1300 U	UG/L
2-HEXANONE	10	2500 U	UG/L
METHYLENE CHLORIDE	5.0	1300 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	2500 U	UG/L
STYRENE	5.0	1300 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	1300 U	UG/L
TETRACHLOROETHENE	5.0	1300 U	UG/L
TOLUENE	5.0	1300 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	160000 E	UG/L
1,1,2-TRICHLOROETHANE	5.0	1300 U	UG/L
TRICHLOROETHENE	5.0	1300 U	UG/L
VINYL CHLORIDE	5.0	1300 U	UG/L
O-XYLENE	5.0	1300 U	UG/L
M+P-XYLENE	5.0	1300 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	104	%
TOLUENE-D8	(87 - 108 %)	98	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	88	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-205

Date Sampled : 10/18/01 **Order #:** 502284 **Sample Matrix:** WATER
Date Received: 10/18/01 **Submission #:** R2109126 **Analytical Run** 70630

DATE ANALYZED : 11/01/01
ANALYTICAL DILUTION: 1000.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20000 U	UG/L
BENZENE	5.0	5000 U	UG/L
BROMODICHLOROMETHANE	5.0	5000 U	UG/L
BROMOFORM	5.0	5000 U	UG/L
BROMOMETHANE	5.0	5000 U	UG/L
2-BUTANONE (MEK)	10	10000 U	UG/L
CARBON DISULFIDE	10	10000 U	UG/L
CARBON TETRACHLORIDE	5.0	5000 U	UG/L
CHLOROBENZENE	5.0	5000 U	UG/L
CHLOROETHANE	5.0	5000 U	UG/L
CHLOROFORM	5.0	5000 U	UG/L
CHLOROMETHANE	5.0	5000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5000 U	UG/L
1,1-DICHLOROETHANE	5.0	160000	UG/L
1,2-DICHLOROETHANE	5.0	5000 U	UG/L
1,1-DICHLOROETHENE	5.0	5000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5000 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5000 U	UG/L
1,2-DICHLOROPROPANE	5.0	5000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5000 U	UG/L
ETHYLBENZENE	5.0	5000 U	UG/L
2-HEXANONE	10	10000 U	UG/L
METHYLENE CHLORIDE	5.0	5000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10000 U	UG/L
STYRENE	5.0	5000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5000 U	UG/L
TETRACHLOROETHENE	5.0	5000 U	UG/L
TOLUENE	5.0	5000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	180000	UG/L
1,1,2-TRICHLOROETHANE	5.0	5000 U	UG/L
TRICHLOROETHENE	5.0	5000 U	UG/L
VINYL CHLORIDE	5.0	5000 U	UG/L
O-XYLENE	5.0	5000 U	UG/L
M+P-XYLENE	5.0	5000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	84	%
TOLUENE-D8	(87 - 108 %)	87	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	87	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD MODIFIED RSK-175
Reported: 11/27/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-205

Date Sampled : 10/18/01 **Order #:** 502284 **Sample Matrix:** WATER
Date Received: 10/18/01 **Submission #:** R2109126 **Analytical Run** 70753

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/25/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	8.4	UG/L
ETHYLENE	1.0	2.4	UG/L
METHANE	2.0	5.3	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

Reported: 11/27/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWD-302D

Date Sampled : 10/18/01 Order #: 502285 Sample Matrix: WATER
Date Received: 10/18/01 Submission #: R2109126

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
CHLORIDE	300.0	0.100	37.2	MG/L	10/19/01	15:09	10.0
DISSOLVED ORGANIC CARBONS	415.1.	1.00	16.8	MG/L	11/20/01	18:12	1.0
NITRATE NITROGEN	300.0	0.0500	0.500 U	MG/L	10/19/01	15:09	10.0
NITRITE NITROGEN	353.2	0.0100	0.0823	MG/L	10/19/01	08:27	1.0
SULFATE	300.0	0.200	740	MG/L	11/20/01	12:30	100.0
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	10/22/01	15:15	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWD-302D

Date Sampled : 10/18/01 **Order #:** 502285 **Sample Matrix:** WATER
Date Received: 10/18/01 **Submission #:** R2109126 **Analytical Run** 70630

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/26/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	1100 E	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	104	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	95	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWD-302D

Date Sampled : 10/18/01 **Order #:** 502285 **Sample Matrix:** WATER
Date Received: 10/18/01 **Submission #:** R2109126 **Analytical Run** 70630

DATE ANALYZED : 11/01/01
ANALYTICAL DILUTION: 10.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	200 U	UG/L
BENZENE	5.0	50 U	UG/L
BROMODICHLOROMETHANE	5.0	50 U	UG/L
BROMOFORM	5.0	50 U	UG/L
BROMOMETHANE	5.0	50 U	UG/L
2-BUTANONE (MEK)	10	100 U	UG/L
CARBON DISULFIDE	10	100 U	UG/L
CARBON TETRACHLORIDE	5.0	50 U	UG/L
CHLOROBENZENE	5.0	50 U	UG/L
CHLOROETHANE	5.0	50 U	UG/L
CHLOROFORM	5.0	50 U	UG/L
CHLOROMETHANE	5.0	50 U	UG/L
DIBROMOCHLOROMETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHANE	5.0	1700	UG/L
1,2-DICHLOROETHANE	5.0	50 U	UG/L
1,1-DICHLOROETHENE	5.0	50 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	50 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	50 U	UG/L
1,2-DICHLOROPROPANE	5.0	50 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	50 U	UG/L
ETHYLBENZENE	5.0	50 U	UG/L
2-HEXANONE	10	100 U	UG/L
METHYLENE CHLORIDE	5.0	50 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	100 U	UG/L
STYRENE	5.0	50 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	50 U	UG/L
TETRACHLOROETHENE	5.0	50 U	UG/L
TOLUENE	5.0	50 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	50 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	50 U	UG/L
TRICHLOROETHENE	5.0	50 U	UG/L
VINYL CHLORIDE	5.0	50 U	UG/L
O-XYLENE	5.0	50 U	UG/L
M+P-XYLENE	5.0	50 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	87	%
TOLUENE-D8	(87 - 108 %)	90	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	89	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD MODIFIED RSK-175
Reported: 11/27/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWD-302D

Date Sampled : 10/18/01 **Order #:** 502285 **Sample Matrix:** WATER
Date Received: 10/18/01 **Submission #:** R2109126 **Analytical Run** 70753

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/25/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	4.5	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	16	UG/L
PROPANE	1.0	1.4	UG/L

COLUMBIA ANALYTICAL SERVICES

Reported: 11/27/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWD-302S

Date Sampled : 10/18/01 Order #: 502286 Sample Matrix: WATER
Date Received: 10/18/01 Submission #: R2109126

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL SULFIDE	376.1	1.00	3.00	MG/L	10/22/01	15:15	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OW5-302S

Date Sampled : 10/18/01 **Order #:** 502286 **Sample Matrix:** WATER
Date Received: 10/18/01 **Submission #:** R2109126 **Analytical Run** 70630

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/26/01			
ANALYTICAL DILUTION: 250.00			
ACETONE	20	5000 U	UG/L
BENZENE	5.0	1300 U	UG/L
BROMODICHLOROMETHANE	5.0	1300 U	UG/L
BROMOFORM	5.0	1300 U	UG/L
BROMOMETHANE	5.0	1300 U	UG/L
2-BUTANONE (MEK)	10	2500 U	UG/L
CARBON DISULFIDE	10	2500 U	UG/L
CARBON TETRACHLORIDE	5.0	1300 U	UG/L
CHLOROBENZENE	5.0	1300 U	UG/L
CHLOROETHANE	5.0	1300 U	UG/L
CHLOROFORM	5.0	1300 U	UG/L
CHLOROMETHANE	5.0	1300 U	UG/L
DIBROMOCHLOROMETHANE	5.0	1300 U	UG/L
1,1-DICHLOROETHANE	5.0	180000 E	UG/L
1,2-DICHLOROETHANE	5.0	1300 U	UG/L
1,1-DICHLOROETHENE	5.0	1300 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	1300 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	1300 U	UG/L
1,2-DICHLOROPROPANE	5.0	1300 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	1300 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	1300 U	UG/L
ETHYLBENZENE	5.0	1300 U	UG/L
2-HEXANONE	10	2500 U	UG/L
METHYLENE CHLORIDE	5.0	1300 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	2500 U	UG/L
STYRENE	5.0	1300 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	1300 U	UG/L
TETRACHLOROETHENE	5.0	1300 U	UG/L
TOLUENE	5.0	1300 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	2200	UG/L
1,1,2-TRICHLOROETHANE	5.0	1300 U	UG/L
TRICHLOROETHENE	5.0	1300 U	UG/L
VINYL CHLORIDE	5.0	1300 U	UG/L
O-XYLENE	5.0	1300 U	UG/L
M+P-XYLENE	5.0	1300 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	105	%
TOLUENE-D8	(87 - 108 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	97	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWS-302S

Date Sampled : 10/18/01 **Order #:** 502286 **Sample Matrix:** WATER
Date Received: 10/18/01 **Submission #:** R2109126 **Analytical Run** 70630

DATE ANALYZED : 11/01/01
ANALYTICAL DILUTION: 1000.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20000 U	UG/L
BENZENE	5.0	5000 U	UG/L
BROMODICHLOROMETHANE	5.0	5000 U	UG/L
BROMOFORM	5.0	5000 U	UG/L
BROMOMETHANE	5.0	5000 U	UG/L
2-BUTANONE (MEK)	10	10000 U	UG/L
CARBON DISULFIDE	10	10000 U	UG/L
CARBON TETRACHLORIDE	5.0	5000 U	UG/L
CHLOROBENZENE	5.0	5000 U	UG/L
CHLOROETHANE	5.0	5000 U	UG/L
CHLOROFORM	5.0	5000 U	UG/L
CHLOROMETHANE	5.0	5000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5000 U	UG/L
1,1-DICHLOROETHANE	5.0	200000	UG/L
1,2-DICHLOROETHANE	5.0	5000 U	UG/L
1,1-DICHLOROETHENE	5.0	5000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5000 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5000 U	UG/L
1,2-DICHLOROPROPANE	5.0	5000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5000 U	UG/L
ETHYLBENZENE	5.0	5000 U	UG/L
2-HEXANONE	10	10000 U	UG/L
METHYLENE CHLORIDE	5.0	5000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10000 U	UG/L
STYRENE	5.0	5000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5000 U	UG/L
TETRACHLOROETHENE	5.0	5000 U	UG/L
TOLUENE	5.0	5000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5000 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5000 U	UG/L
TRICHLOROETHENE	5.0	5000 U	UG/L
VINYL CHLORIDE	5.0	5000 U	UG/L
O-XYLENE	5.0	5000 U	UG/L
M+P-XYLENE	5.0	5000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	89	%
TOLUENE-D8	(87 - 108 %)	90	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	90	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD MODIFIED RSK-175
Reported: 11/27/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWD-302S

Date Sampled : 10/18/01 Order #: 502286 Sample Matrix: WATER
Date Received: 10/18/01 Submission #: R2109126 Analytical Run 70753

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/25/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	7.9	UG/L
ETHYLENE	1.0	7.5	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

Reported: 11/27/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-502

Date Sampled : 10/17/01 Order #: 502287 Sample Matrix: WATER
Date Received: 10/18/01 Submission #: R2109126

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
CHLORIDE	300.0	0.100	241	MG/L	11/01/01	02:29	40.0
DISSOLVED ORGANIC CARBONS	415.1.	1.00	26.7	MG/L	11/06/01	16:54	1.0
NITRATE NITROGEN	300.0	0.0500	0.859	MG/L	10/19/01	17:14	10.0
NITRITE NITROGEN	353.2	0.0100	0.0100 U	MG/L	10/19/01	08:27	1.0
SULFATE	300.0	0.200	56.2	MG/L	10/19/01	17:14	10.0
TOTAL ALKALINITY	310.1	2.00	94.4	MG/L	10/29/01	16:30	1.0
TOTAL SULFIDE	376.1	1.00	1.28	MG/L	10/22/01	15:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/27/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-502

Date Sampled : 10/17/01
Date Received: 10/18/01

Order #: 502287
Submission #: R2109126

Sample Matrix: WATER

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	4.96	MG/L	10/29/01	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-502

Date Sampled : 10/17/01 Order #: 502287 Sample Matrix: WATER
Date Received: 10/18/01 Submission #: R2109126 Analytical Run 70630

DATE ANALYZED : 10/30/01
ANALYTICAL DILUTION: 100.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	2000 U	UG/L
BENZENE	5.0	500 U	UG/L
BROMODICHLOROMETHANE	5.0	500 U	UG/L
BROMOFORM	5.0	500 U	UG/L
BROMOMETHANE	5.0	500 U	UG/L
2-BUTANONE (MEK)	10	1000 U	UG/L
CARBON DISULFIDE	10	1000 U	UG/L
CARBON TETRACHLORIDE	5.0	500 U	UG/L
CHLOROBENZENE	5.0	500 U	UG/L
CHLOROETHANE	5.0	500 U	UG/L
CHLOROFORM	5.0	500 U	UG/L
CHLOROMETHANE	5.0	500 U	UG/L
DIBROMOCHLOROMETHANE	5.0	500 U	UG/L
1,1-DICHLOROETHANE	5.0	11000	UG/L
1,2-DICHLOROETHANE	5.0	500 U	UG/L
1,1-DICHLOROETHENE	5.0	500 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	500 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	500 U	UG/L
1,2-DICHLOROPROPANE	5.0	500 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	500 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	500 U	UG/L
ETHYLBENZENE	5.0	500 U	UG/L
2-HEXANONE	10	1000 U	UG/L
METHYLENE CHLORIDE	5.0	1100	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	1000 U	UG/L
STYRENE	5.0	500 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	500 U	UG/L
TETRACHLOROETHENE	5.0	500 U	UG/L
TOLUENE	5.0	500 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	500 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	500 U	UG/L
TRICHLOROETHENE	5.0	500 U	UG/L
VINYL CHLORIDE	5.0	500 U	UG/L
O-XYLENE	5.0	500 U	UG/L
M+P-XYLENE	5.0	500 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	87	%
TOLUENE-D8	(87 - 108 %)	92	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	90	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD MODIFIED RSK-175
Reported: 11/27/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-502

Date Sampled : 10/17/01 **Order #:** 502287 **Sample Matrix:** WATER
Date Received: 10/18/01 **Submission #:** R2109126 **Analytical Run** 70753

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/25/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	24	UG/L
ETHYLENE	1.0	6.6	UG/L
METHANE	2.0	18	UG/L
PROPANE	1.0	4.8	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-401

Date Sampled : 10/17/01 Order #: 502288 Sample Matrix: WATER
Date Received: 10/18/01 Submission #: R2109126 Analytical Run 70630

DATE ANALYZED : 10/30/01
ANALYTICAL DILUTION: 2.50

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	50 U	UG/L
BENZENE	5.0	13 U	UG/L
BROMODICHLOROMETHANE	5.0	13 U	UG/L
BROMOFORM	5.0	13 U	UG/L
BROMOMETHANE	5.0	13 U	UG/L
2-BUTANONE (MEK)	10	25 U	UG/L
CARBON DISULFIDE	10	25 U	UG/L
CARBON TETRACHLORIDE	5.0	13 U	UG/L
CHLOROBENZENE	5.0	13 U	UG/L
CHLOROETHANE	5.0	13 U	UG/L
CHLOROFORM	5.0	13 U	UG/L
CHLOROMETHANE	5.0	13 U	UG/L
DIBROMOCHLOROMETHANE	5.0	13 U	UG/L
1,1-DICHLOROETHANE	5.0	430	UG/L
1,2-DICHLOROETHANE	5.0	13 U	UG/L
1,1-DICHLOROETHENE	5.0	28	UG/L
CIS-1,2-DICHLOROETHENE	5.0	13 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	13 U	UG/L
1,2-DICHLOROPROPANE	5.0	13 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	13 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	13 U	UG/L
ETHYLBENZENE	5.0	13 U	UG/L
2-HEXANONE	10	25 U	UG/L
METHYLENE CHLORIDE	5.0	180	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	25 U	UG/L
STYRENE	5.0	13 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	13 U	UG/L
TETRACHLOROETHENE	5.0	13 U	UG/L
TOLUENE	5.0	13 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	140	UG/L
1,1,2-TRICHLOROETHANE	5.0	13 U	UG/L
TRICHLOROETHENE	5.0	13 U	UG/L
VINYL CHLORIDE	5.0	13 U	UG/L
O-XYLENE	5.0	13 U	UG/L
M+P-XYLENE	5.0	13 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	93	%
TOLUENE-D8	(87 - 108 %)	94	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	93	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-402

Date Sampled : 10/17/01 Order #: 502289 Sample Matrix: WATER
Date Received: 10/18/01 Submission #: R2109126 Analytical Run 70630

DATE ANALYZED : 10/26/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	108	%
TOLUENE-D8	(87 - 108 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	96	%

COLUMBIA ANALYTICAL SERVICES

Reported: 11/27/01

dley & Aldrich of New York
roject Reference: COOPERVISION #70665-007
lient Sample ID : MW-501

ate Sampled : 10/17/01 Order #: 502292 Sample Matrix: WATER
te Received: 10/18/01 Submission #: R2109126

NALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
HLORIDE	300.0	0.100	85.6	MG/L	10/19/01	17:26	10.0
ISSOLVED ORGANIC CARBONS	415.1.	1.00	141	MG/L	11/06/01	18:09	10.0
ITRATE NITROGEN	300.0	0.0500	0.634	MG/L	10/19/01	17:26	10.0
ITRITE NITROGEN	353.2	0.0100	0.159	MG/L	10/19/01	08:27	1.0
ULFATE	300.0	0.200	21.5	MG/L	10/19/01	17:26	10.0
OTAL ALKALINITY	310.1	2.00	167	MG/L	10/29/01	16:30	1.0
OTAL SULFIDE	376.1	1.00	1.18 J	MG/L	10/22/01	15:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/27/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-501

Date Sampled : 10/17/01 Order #: 502292 Sample Matrix: WATER
Date Received: 10/18/01 Submission #: R2109126

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	662	MG/L	10/29/01	5.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-501

Date Sampled : 10/17/01 Order #: 502292 Sample Matrix: WATER
Date Received: 10/18/01 Submission #: R2109126 Analytical Run 70630

DATE ANALYZED : 10/30/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	55	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	95	%
TOLUENE-D8	(87 - 108 %)	94	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	88	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD MODIFIED RSK-175
Reported: 11/27/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-501

Date Sampled : 10/17/01 Order #: 502292 Sample Matrix: WATER
Date Received: 10/18/01 Submission #: R2109126 Analytical Run 70753

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/25/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	4.0	UG/L
ETHYLENE	1.0	1.4	UG/L
METHANE	2.0	18	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-202

Date Sampled : 10/18/01 **Order #:** 502294 **Sample Matrix:** WATER
Date Received: 10/18/01 **Submission #:** R2109126 **Analytical Run** 70630

DATE ANALYZED : 10/26/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	104	%
TOLUENE-D8	(87 - 108 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	96	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-304

Date Sampled : 10/18/01 **Order #:** 502295 **Sample Matrix:** WATER
Date Received: 10/18/01 **Submission #:** R2109126 **Analytical Run** 70630

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/26/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	44	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	26	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	37	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	107	%
TOLUENE-D8	(87 - 108 %)	99	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	96	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-203

Date Sampled : 10/18/01 **Order #:** 502298 **Sample Matrix:** WATER
Date Received: 10/18/01 **Submission #:** R2109126 **Analytical Run** 70630

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/30/01			
ANALYTICAL DILUTION: . 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	92	%
TOLUENE-D8	(87 - 108 %)	92	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	92	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-204

Date Sampled : 10/18/01 **Order #:** 502299 **Sample Matrix:** WATER
Date Received: 10/18/01 **Submission #:** R2109126 **Analytical Run** 70630

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/26/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	19	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	15	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	22	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	105	%
TOLUENE-D8	(87 - 108 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	95	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 504556 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 70630

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/26/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	103	%
TOLUENE-D8	(87 - 108 %)	100	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	97	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : Order #: 506115 Sample Matrix: WATER
Date Received: Submission #: Analytical Run 70630

DATE ANALYZED : 10/30/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	89	%
TOLUENE-D8	(87 - 108 %)	91	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	86	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/29/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :
Date Received:
Order #: 506854
Submission #:
Sample Matrix: WATER
Analytical Run 70630

DATE ANALYZED : 11/01/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	89	%
TOLUENE-D8	(87 - 108 %)	93	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	88	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD MODIFIED RSK-175
Reported: 11/27/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :
Date Received:
Order #: 505127
Submission #:
Sample Matrix: WATER
Analytical Run 70753

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/25/01			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

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CAS Contact

Project Name: Coopervision	Project Number: 70605-007
Project Manager: Vince Dick	Report CC:
Company/Address: Haley + Aldrich 200 Town Center Dr Suite 2 Rochester, NY	
Phone #: 716-359-9000	FAX#: 716-395-4650
Sampler's Signature: Nichole Case	Sampler's Printed Name: Nichole Case

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's □ 8260 □ 624 □ CLP	GC/MS SVOA's □ 8270 □ 625 □ CLP	GC VOA's □ 8021 □ 601/602	PESTICIDES/ PCB's □ 8081 □ 608 □ CLP □ 8082	STAR'S LIST 8021 VOA's □ TOTAL □ TCLP	STAR'S LIST 8270 SVOA's □ TOTAL □ TCLP	TCLP □ VOA's □ METALS □ SVOA's	WASTE CHARACTERIZATION □ React □ Corros. □ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SO4, NO3, NO2, Cl	RSK	SOL	Sulfide	REMARKS/ ALTERNATE DESCRIPTION
MW-2	502283	10/18/01		W	3	X														
MW-205	502284	10/18/01		W	12	X			X					X	FSM	X	X	X	X	
OWD-302D	502285	10/18/01		W	10	X										X	X	X	X	
OWS-302S	502286	10/18/01		W	6	X											X		X	
MW-502	502287	10/17/01		W	12	X			X					X		X	X	X	X	
MW-401	502288	10/17/01		W	3	X														
MW-402	502289	10/17/01		W	3	X														
MW-501	502292	10/17/01		W	12	X			X					X		X	X	X	X	
MW-202	502294	10/18/01		W	3	X														
MW-304	502295	10/18/01		W	3	X														

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals - total Fe

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 24 hr ___ 48 hr ___ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
X I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
___ V. Specialized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
70605-007
PO# H+A
BILL TO:

R2109126
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 2°C
CUSTODY SEALS: Y (N)

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Nichole Case	Signature: Kelly M. Cook	Signature:	Signature:	Signature:	Signature:
Printed Name: Nichole Case	Printed Name: K. Cook	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: H+A	Firm: CAS	Firm:	Firm:	Firm:	Firm:
Date/Time: 10/18/01 15:45	Date/Time: 10-18-01 1545	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

#5558

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

Analytical Services Inc.
An Employee-Owned Company
www.caslab.com

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 2 OF 2

CAS Contact

Project Name: Coopervision	Project Number: 701605-007
Project Manager: Vince Dill	Report CC:
Company/Address: Hatch+Aldrich 200 Town Centre Dr Rochester, NY	
Phone #: 716-359-9000	FAX#:
Sampler's Signature: Nichole Cook	Sampler's Printed Name: Nichole Cook

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

NUMBER OF CONTAINERS

- ☒ GC/MS VOA's 8260 ☐ 624 ☐ CLP
- ☐ GC/MS SVOA's 8270 ☐ 625 ☐ CLP
- ☐ GC VOA's 8021 ☐ 601/602
- ☐ PESTICIDES/ PCB's 8081 ☐ 608 ☐ CLP ☐ 8082
- ☐ STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP
- ☐ STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP
- ☐ TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P
- ☐ WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.
- ☐ METALS, TOTAL (List in comments below)
- ☐ METALS, DISSOLVED (List in comments below)

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS		REMARKS/ ALTERNATE DESCRIPTION
MW-203	5022298	10/18/01		W	3	X	
MW-204	5022299	10/18/01		W	3	X	

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
RUSH (SURCHARGES APPLY)
24 hr 48 hr 5 day
☒ STANDARD

REQUESTED FAX DATE

REQUESTED REPORT DATE

REPORT REQUIREMENTS
☒ I. Results Only
☐ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
☐ III. Results + QC and Calibration Summaries
☐ IV. Data Validation Report with Raw Data
☐ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
701605-007
PO#
BILL TO:

R2109126
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 2C CUSTODY SEALS: Y (N)

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Nichole Cook	Signature: Nicole M. Cook	Signature	Signature	Signature	Signature
Printed Name: Nichole Cook	Printed Name: CAS	Printed Name	Printed Name	Printed Name	Printed Name
Firm: H+A	Firm: 10-18-01 1545	Firm	Firm	Firm	Firm
Date/Time: 10/18/01 15:45	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

H: 5561

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client HOA Submission Number R2109126.

Cooler received on 10-18-01 by: KMC COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?	YES / (NO)				
2.	Were custody papers properly filled out (ink, signed, etc.)?	(YES) NO				
3.	Did all bottles arrive in good condition (unbroken)?	(YES) NO				
4.	Did any VOA vials have significant air bubbles?	YES (NO) N/A				
5.	Were Ice or Ice packs present?	(YES) NO				
6.	Where did the bottles originate?	(CAS/ROC) CLIENT				
7.	Temperature of cooler(s) upon receipt:	2°C				
	Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
	If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 10-18-01 1550

Thermometer ID: 12-600 Temp Blank Sample Bottle Cooler Temp. (IR. Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 10/19/01 by: _____

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES) NO	
2.	Did all bottle labels and tags agree with custody papers?	(YES) NO	
3.	Were correct containers used for the tests indicated?	(YES) NO	
4.	Air Samples: Cassettes / Tubes Intact	Canisters Pressurized	Tedlar® Bags Inflated (N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3	✓				
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

70665-007
blue
LAB
Folder → make
not
here

H&A OF NY
NOV 28 2001
RECEIVED

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

Oct 2001
1st Qtr.

November 21, 2001

Mr. Vincent Dick
Haley & Aldrich of New York
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

PROJECT:COOPERVISION #70665-007
Submission #:R2109133

Dear Mr. Dick

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Karen Bunker

Karen Bunker
Project Manager

Enc.

Columbia Analytical Services Inc.

1 Mustard ST.
Suite 250
Rochester, NY 14609

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Lab Submission # : R2109133
Reported : 11/21/01

Report Contains a total of 16 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. Michael K. Perry

Columbia Analytical Services Inc.

This report contains analytical results for the following samples:

Submission #: R2109133

Lab ID	Client ID
502434	MW-3
502438	OWD-302D
502439	OWS-302S

Case Narrative

Company: Haley & Aldrich
Project: Coopervision #70665-007
Submission #: R2109133

H&A collected water samples on 10/18/01. Samples were received at CAS on 10/19/01, unbroken, packed in ice, at a cooler temperature of 3°C.

GC/MS VOLATILE ORGANICS

One water sample was analyzed for the Target Compound List of Volatile Organics by GC/MS Method 8260B from SW-846.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

Surrogate standard recoveries were within acceptance limits for both 4-Bromofluorobenzene and Toluene-D8. The surrogate, Dibromofluoromethane, was outside limits and has been flagged as "*". The sample was repeated at a dilution for calibration purposes and all surrogates were within limits.

Location MW-3 (CAS Order # 502434) required a dilution. The initial sample analysis contained hits for 1,1-Dichloroethane and 1,1-Dichloroethene which were outside the standard calibration curve for these compounds. The data has been flagged as "E". The sample was repeated at an appropriate dilution. Both sets of data are included in the report package.

The Laboratory Blanks associated with these analyses were free from contamination.

The sample was run within the 14 day holding time for preserved sample vials for the method.

No other analytical or QC problems were encountered.

GC Volatile Organics

One water sample was received for RSK-175. All vials were received in the lab with significant headspace and were unable to be analyzed.

Inorganic Analyses

Location MW-3 (CAS Order # 502434) was submitted for analysis for the following list of parameters: Chloride by IC method 300.0, Nitrate/Nitrite by method 353.1, Nitrite by method 353.2, Nitrate by calculation, Sulfate by IC method 300.0, and the ICP Metal Iron by Method 6010B, Dissolved Organic Carbon by method 415.1 and Sulfide by method 376.1. Location OWS-302S (CAS Order # 502439) required only Sulfate, Nitrite, Nitrate and Chloride parameters. Location OWD-302D (CAS Order # 502438) only required Alkalinity and Total Iron.

All were analyzed within proper holding times for the methodology.

All QC associated with the sample was within limits.

No analytical problems were encountered.

Columbia Analytical Services INC.

An Employee - Owned Company

Effective 10/26/01

CAS LIST OF QUALIFIERS

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Inorganic Duplicate analysis not within control limits. Flag the entire batch - Inorganic analysis only

* - Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
New York ID # 10145
Connecticut ID # PH0556
Massachusetts ID # M-NY032
American Industrial Hygiene Assoc. ID #:100314
Navy Facilities Engineering Service Center Approved

Delaware Accredited
New Jersey ID # 73004
Rhode Island ID # 158
New Hampshire ID # 294100 A/B
West Virginia ID # 292
Florida ID # E87674

ACCREDITED IN ACCORDANCE WITH nelac

COLUMBIA ANALYTICAL SERVICES

Reported: 11/21/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-3

Date Sampled : 10/18/01 **Order #:** 502434 **Sample Matrix:** WATER
Date Received: 10/19/01 **Submission #:** R2109133

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
CHLORIDE	300.0	0.100	139	MG/L	11/05/01	15:45	20.0
DISSOLVED ORGANIC CARBONS	415.1.	1.00	2.19	MG/L	11/06/01	20:52	1.0
NITRATE NITROGEN	300.0	0.0500	2.21	MG/L	10/19/01	17:38	10.0
NITRITE NITROGEN	353.2	0.0100	0.130	MG/L	10/19/01	08:27	1.0
SULFATE	300.0	0.200	15.1	MG/L	10/19/01	17:38	10.0
TOTAL ALKALINITY	310.1	2.00	197	MG/L	10/30/01	16:00	1.0
TOTAL SULFIDE	376.1	1.00	1.00 U	MG/L	10/22/01	15:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/21/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-3

Date Sampled : 10/18/01 Order #: 502434 Sample Matrix: WATER
Date Received: 10/19/01 Submission #: R2109133

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	14.1	MG/L	10/29/01	1.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/26/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-3

Date Sampled : 10/18/01 **Order #:** 502434 **Sample Matrix:** WATER
Date Received: 10/19/01 **Submission #:** R2109133 **Analytical Run** 70631

DATE ANALYZED : 10/25/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	1000 E	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	630 E	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	2000 E	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	37	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	114	%
TOLUENE-D8	(87 - 108 %)	110	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	67 *	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/26/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-3

Date Sampled : 10/18/01 **Order #:** 502434 **Sample Matrix:** WATER
Date Received: 10/19/01 **Submission #:** R2109133 **Analytical Run** 70631

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 11/01/01			
ANALYTICAL DILUTION: 20.00			
ACETONE	20	400 U	UG/L
BENZENE	5.0	100 U	UG/L
BROMODICHLOROMETHANE	5.0	100 U	UG/L
BROMOFORM	5.0	100 U	UG/L
BROMOMETHANE	5.0	100 U	UG/L
2-BUTANONE (MEK)	10	200 U	UG/L
CARBON DISULFIDE	10	200 U	UG/L
CARBON TETRACHLORIDE	5.0	100 U	UG/L
CHLOROBENZENE	5.0	100 U	UG/L
CHLOROETHANE	5.0	100 U	UG/L
CHLOROFORM	5.0	100 U	UG/L
CHLOROMETHANE	5.0	100 U	UG/L
DIBROMOCHLOROMETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHANE	5.0	790	UG/L
1,2-DICHLOROETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHENE	5.0	530	UG/L
CIS-1,2-DICHLOROETHENE	5.0	100 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	100 U	UG/L
1,2-DICHLOROPROPANE	5.0	100 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
ETHYLBENZENE	5.0	100 U	UG/L
2-HEXANONE	10	200 U	UG/L
METHYLENE CHLORIDE	5.0	100 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	200 U	UG/L
STYRENE	5.0	100 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	100 U	UG/L
TETRACHLOROETHENE	5.0	100 U	UG/L
TOLUENE	5.0	100 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	2400	UG/L
1,1,2-TRICHLOROETHANE	5.0	100 U	UG/L
TRICHLOROETHENE	5.0	100 U	UG/L
VINYL CHLORIDE	5.0	100 U	UG/L
O-XYLENE	5.0	100 U	UG/L
M+P-XYLENE	5.0	100 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	91	%
TOLUENE-D8	(87 - 108 %)	95	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	94	%

COLUMBIA ANALYTICAL SERVICES

Reported: 11/21/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWD-302D

Date Sampled : 10/18/01 **Order #:** 502438 **Sample Matrix:** WATER
Date Received: 10/19/01 **Submission #:** R2109133

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL ALKALINITY	310.1	2.00	69.7	MG/L	10/30/01	16:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/21/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWD-302D

Date Sampled : 10/18/01 **Order #:** 502438 **Sample Matrix:** WATER
Date Received: 10/19/01 **Submission #:** R2109133

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
IRON	6010B	0.100	2.90	MG/L	10/29/01	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 11/21/01

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWS-302S

Date Sampled : 10/18/01 Order #: 502439 Sample Matrix: WATER
Date Received: 10/19/01 Submission #: R2109133

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
CHLORIDE	300.0	0.100	1600	MG/L	11/05/01	21:32	200.0
NITRATE NITROGEN	300.0	0.0500	0.500 U	MG/L	10/19/01	17:51	10.0
NITRITE NITROGEN	353.2	0.0100	0.143	MG/L	10/19/01	08:27	1.0
SULFATE	300.0	0.200	228	MG/L	11/05/01	15:58	100.0

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/21/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 504558 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 70631

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 10/25/01			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	111	%
TOLUENE-D8	(87 - 108 %)	107	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	104	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 11/21/01

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 506113 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 70631

DATE ANALYZED : 11/01/01
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	97	%
TOLUENE-D8	(87 - 108 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	95	%

Analytical Services INC
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 1

S... CAS Contact

Project Name: Coopervision	Project Number: 701605-007
Project Manager: Vince Dick	Report CC:
Company/Address: Haley + Aldrich, 200 Town Centre Dr, Rochester	
Phone #: 716-359-9000	FAX#: 716-359-4650
Sampler's Signature: Nichole Case	Sampler's Printed Name: Nichole Case

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: #1 Kalin H

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	~~GC VOA's 8021 ☐ 601/602~~	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	SO_4, NO_3, NO_2, Cl	RSK	SVC	Sulfide	REMARKS/ ALTERNATE DESCRIPTION
MW-3	502434	10/18/01		W	12	X		X						X		X	X	X	X	
OWD-302D	502438	10/18/01		W	2			X						X						
OWS-302S	502439	10/18/01		W	1											X				

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals total R

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
X I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
701605-007
PO# H+A
BILL TO:
R2109133
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Nichole Case					
Signature: Nichole Case	Signature: Gregory Emerian	Signature	Signature	Signature	Signature
Printed Name: H+A	Printed Name: Gregory Emerian	Printed Name	Printed Name	Printed Name	Printed Name
Firm:	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 10/19/01 11:55	Date/Time: 10/19/01 11:55	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

#1416

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Check Form

Project/Client H+A Submission Number R2-9133

Cooler received on 10-19-01 by: JE COURIER: CAS UPS FEDEX CD&L (CLIENT)

1. Were custody seals on outside of cooler? YES (NO)
2. Were custody papers properly filled out (ink, signed, etc.)? (YES) NO
3. Did all bottles arrive in good condition (unbroken)? (YES) NO
4. Did any VOA vials have significant air bubbles? YES (NO) N/A
5. Were (Ice) or Ice packs present? (YES) NO
6. Where did the bottles originate? (CAS/ROC) CLIENT
7. Temperature of cooler(s) upon receipt: 3°

Is the temperature within 0° - 6° C?:	Yes ☒	Yes ☐	Yes ☐	Yes ☐	Yes ☐
If No, Explain Below	No ☐	No ☐	No ☐	No ☐	No ☐

Date/Time Temperatures Taken: 10-19-01 @ 12:00

Thermometer ID: IR-Gun Temp Blank Sample Bottle Cooler Temp. (IR Gun)

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 10-19-01 by: JE

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

February 20, 2002

Mr. Vincent Dick
Haley & Aldrich of New York
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

PROJECT:COOPERVISION #70665-007
Submission #:R2210533

Dear Mr. Dick

Enclosed are the analytical results of the analyses requested. All data has been reviewed prior to report submission. Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Karen Bunker

Karen Bunker
Project Manager

Enc.

Columbia Analytical Services, Inc.
1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Lab Submission # : R2210533
Project Manager : Karen Bunker
Reported : 02/20/02

Report Contains a total of 34 pages

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. Michael K. Perry

01

Columbia Analytical Services inc.

This report contains analytical results for the following samples:

Submission #: R2210533

Lab ID	Client ID
528269	MW-202
528270	MW-203
528271	MW-204
528272	MW-205
528273	MW-2
528274	OW-304
528275	MW-401
528276	MW-402
528277	MW-502
528278	OWD-302D
528279	OWS-302S
528280	TRIP BLANK

Case Narrative

Company: Haley & Aldrich
Project: Coopervision #70665-007
Submission #: R2210533

H&A collected water samples on 1/28-30/02. Samples were received at CAS on 2/1/02, unbroken, packed on ice packs, at a cooler temperature of 1°C. One location, MW-403, was placed "on Hold" upon receipt and did not require analysis as per client notification.

GC/MS VOLATILE ORGANICS

Eleven (11) water sample was analyzed for the Target Compound List of Volatile Organics by GC/MS Method 8260B from SW-846.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

Surrogate standard recoveries were within acceptance limits.

Run QC is provided in the report package. All Laboratory Control Sample compounds are within limits except for Carbon Disulfide on LSC 2/8/02 which has been flagged "*".

Several samples required dilutions to bring target compounds within the calibration range of the standards. Hits outside the range are flagged as "E" and the sample is reanalyzed at the appropriate dilution. Both sets of data are included in the report package.

The Trip Blank and Laboratory Blanks associated with these analyses were free from contamination.

The samples were run within the 14 day holding time for preserved sample vials for the method. All vials were checked for preservation after analysis and found to be <2.

No other analytical or QC problems were encountered.

1 Mustard Street, Suite 250 ▪ Rochester, NY 14609-6925 ▪ Telephone (585) 288-5380 ▪ Fax (585) 288-8475

GC Volatile Organics

Five water samples were analyzed for Ethane, Ethene, Methane and Propane by modified GC method RSK-175.

All associated QC was within limits for these samples.

Samples were run within holding time for the method.

The Method Blank was free from contamination.

No problems were encountered during the analysis.

Columbia Analytical Services INC.

An Employee - Owned Company

Effective 2/8/02

CAS LIST OF QUALIFIERS

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Inorganic Duplicate analysis not within control limits. Flag the entire batch - Inorganic analysis only

* - Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

CAS/Rochester Lab ID # for State Certifications

American Industrial Hygiene Assoc. ID #:100314
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
NELAP Accredited
New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292

ACCREDITED IN ACCORDANCE WITH nelac

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-202

Date Sampled : 01/28/02 12:45 **Order #:** 528269 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74416

DATE ANALYZED : 02/08/02
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	97	%
TOLUENE-D8	(87 - 108 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	96	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-203

Date Sampled : 01/29/02 08:45 **Order #:** 528270 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74416

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/08/02			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	94	%
TOLUENE-D8	(87 - 108 %)	105	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-204

Date Sampled : 01/28/02 11:00 **Order #:** 528271 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74416

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/08/02			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	11	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	8.1	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	11	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	93	%
TOLUENE-D8	(87 - 108 %)	102	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	98	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-205

Date Sampled : 01/29/02 12:00 **Order #:** 528272 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74416

DATE ANALYZED : 02/08/02
ANALYTICAL DILUTION: 2000.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	40000 U	UG/L
BENZENE	5.0	10000 U	UG/L
BROMODICHLOROMETHANE	5.0	10000 U	UG/L
BROMOFORM	5.0	10000 U	UG/L
BROMOMETHANE	5.0	10000 U	UG/L
2-BUTANONE (MEK)	10	20000 U	UG/L
CARBON DISULFIDE	10	20000 U	UG/L
CARBON TETRACHLORIDE	5.0	10000 U	UG/L
CHLOROBENZENE	5.0	10000 U	UG/L
CHLOROETHANE	5.0	10000 U	UG/L
CHLOROFORM	5.0	10000 U	UG/L
CHLOROMETHANE	5.0	10000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	10000 U	UG/L
1,1-DICHLOROETHANE	5.0	240000	UG/L
1,2-DICHLOROETHANE	5.0	10000 U	UG/L
1,1-DICHLOROETHENE	5.0	10000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	10000 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	10000 U	UG/L
1,2-DICHLOROPROPANE	5.0	10000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	10000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	10000 U	UG/L
ETHYLBENZENE	5.0	10000 U	UG/L
2-HEXANONE	10	20000 U	UG/L
METHYLENE CHLORIDE	5.0	10000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	20000 U	UG/L
STYRENE	5.0	10000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	10000 U	UG/L
TETRACHLOROETHENE	5.0	10000 U	UG/L
TOLUENE	5.0	10000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	300000	UG/L
1,1,2-TRICHLOROETHANE	5.0	10000 U	UG/L
TRICHLOROETHENE	5.0	10000 U	UG/L
VINYL CHLORIDE	5.0	10000 U	UG/L
O-XYLENE	5.0	10000 U	UG/L
M+P-XYLENE	5.0	10000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	96	%
TOLUENE-D8	(87 - 108 %)	103	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD RSK-175 MODIFIED
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-205

Date Sampled : 01/29/02 12:00 **Order #:** 528272 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74491

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/08/02			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	6.9	UG/L
ETHYLENE	1.0	2.0	UG/L
METHANE	2.0	5.2	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-2

Date Sampled : 01/28/02 14:00 **Order #:** 528273 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74416

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/09/02			
ANALYTICAL DILUTION: 20.00			
ACETONE	20	400 U	UG/L
BENZENE	5.0	100 U	UG/L
BROMODICHLOROMETHANE	5.0	100 U	UG/L
BROMOFORM	5.0	100 U	UG/L
BROMOMETHANE	5.0	100 U	UG/L
2-BUTANONE (MEK)	10	200 U	UG/L
CARBON DISULFIDE	10	200 U	UG/L
CARBON TETRACHLORIDE	5.0	100 U	UG/L
CHLOROBENZENE	5.0	100 U	UG/L
CHLOROETHANE	5.0	100 U	UG/L
CHLOROFORM	5.0	100 U	UG/L
CHLOROMETHANE	5.0	100 U	UG/L
DIBROMOCHLOROMETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHANE	5.0	190	UG/L
1,2-DICHLOROETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHENE	5.0	270	UG/L
CIS-1,2-DICHLOROETHENE	5.0	100 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	100 U	UG/L
1,2-DICHLOROPROPANE	5.0	100 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
ETHYLBENZENE	5.0	100 U	UG/L
2-HEXANONE	10	200 U	UG/L
METHYLENE CHLORIDE	5.0	100 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	200 U	UG/L
STYRENE	5.0	100 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	100 U	UG/L
TETRACHLOROETHENE	5.0	100	UG/L
TOLUENE	5.0	100 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	2100	UG/L
1,1,2-TRICHLOROETHANE	5.0	100 U	UG/L
TRICHLOROETHENE	5.0	100 U	UG/L
VINYL CHLORIDE	5.0	100 U	UG/L
O-XYLENE	5.0	100 U	UG/L
M+P-XYLENE	5.0	100 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	100	%
TOLUENE-D8	(87 - 108 %)	106	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	102	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OW-304

Date Sampled : 01/29/02 09:20 **Order #:** 528274 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74416

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/08/02			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	10	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	99	%
TOLUENE-D8	(87 - 108 %)	106	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	98	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-401

Date Sampled : 01/29/02 13:40 **Order #:** 528275 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74417

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/09/02			
ANALYTICAL DILUTION: 2.50			
ACETONE	20	50 U	UG/L
BENZENE	5.0	13 U	UG/L
BROMODICHLOROMETHANE	5.0	13 U	UG/L
BROMOFORM	5.0	13 U	UG/L
BROMOMETHANE	5.0	13 U	UG/L
2-BUTANONE (MEK)	10	25 U	UG/L
CARBON DISULFIDE	10	25 U	UG/L
CARBON TETRACHLORIDE	5.0	13 U	UG/L
CHLOROBENZENE	5.0	13 U	UG/L
CHLOROETHANE	5.0	13 U	UG/L
CHLOROFORM	5.0	13 U	UG/L
CHLOROMETHANE	5.0	13 U	UG/L
DIBROMOCHLOROMETHANE	5.0	13 U	UG/L
1,1-DICHLOROETHANE	5.0	720 E	UG/L
1,2-DICHLOROETHANE	5.0	13 U	UG/L
1,1-DICHLOROETHENE	5.0	57	UG/L
CIS-1,2-DICHLOROETHENE	5.0	13 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	13 U	UG/L
1,2-DICHLOROPROPANE	5.0	13 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	13 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	13 U	UG/L
ETHYLBENZENE	5.0	13 U	UG/L
2-HEXANONE	10	25 U	UG/L
METHYLENE CHLORIDE	5.0	13 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	25 U	UG/L
STYRENE	5.0	13 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	13 U	UG/L
TETRACHLOROETHENE	5.0	13 U	UG/L
TOLUENE	5.0	13 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	21	UG/L
1,1,2-TRICHLOROETHANE	5.0	13 U	UG/L
TRICHLOROETHENE	5.0	13 U	UG/L
VINYL CHLORIDE	5.0	13 U	UG/L
O-XYLENE	5.0	13 U	UG/L
M+P-XYLENE	5.0	13 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	93	%
TOLUENE-D8	(87 - 108 %)	107	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-401

Date Sampled : 01/29/02 13:40 **Order #:** 528275 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74417

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/11/02			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	700	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	56	UG/L
CIS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	25 U	UG/L
VINYL CHLORIDE	5.0	25 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	93	%
TOLUENE-D8	(87 - 108 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	99	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-402

Date Sampled : 01/28/02 12:00 **Order #:** 528276 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74416

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/09/02			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	99	%
TOLUENE-D8	(87 - 108 %)	105	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	102	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-502

Date Sampled : 01/28/02 14:45 **Order #:** 528277 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74417

DATE ANALYZED : 02/11/02
ANALYTICAL DILUTION: 20.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	400 U	UG/L
BENZENE	5.0	100 U	UG/L
BROMODICHLOROMETHANE	5.0	100 U	UG/L
BROMOFORM	5.0	100 U	UG/L
BROMOMETHANE	5.0	100 U	UG/L
2-BUTANONE (MEK)	10	200 U	UG/L
CARBON DISULFIDE	10	200 U	UG/L
CARBON TETRACHLORIDE	5.0	100 U	UG/L
CHLOROBENZENE	5.0	100 U	UG/L
CHLOROETHANE	5.0	100 U	UG/L
CHLOROFORM	5.0	100 U	UG/L
CHLOROMETHANE	5.0	100 U	UG/L
DIBROMOCHLOROMETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHANE	5.0	3300	UG/L
1,2-DICHLOROETHANE	5.0	100 U	UG/L
1,1-DICHLOROETHENE	5.0	100 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	100 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	100 U	UG/L
1,2-DICHLOROPROPANE	5.0	100 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	100 U	UG/L
ETHYLBENZENE	5.0	100 U	UG/L
2-HEXANONE	10	200 U	UG/L
METHYLENE CHLORIDE	5.0	100 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	200 U	UG/L
STYRENE	5.0	100 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	100 U	UG/L
TETRACHLOROETHENE	5.0	100 U	UG/L
TOLUENE	5.0	100 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	100 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	100 U	UG/L
TRICHLOROETHENE	5.0	100 U	UG/L
VINYL CHLORIDE	5.0	100 U	UG/L
O-XYLENE	5.0	100 U	UG/L
M+P-XYLENE	5.0	100 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	96	%
TOLUENE-D8	(87 - 108 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	99	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD RSK-175 MODIFIED
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-502

Date Sampled : 01/28/02 14:45 **Order #:** 528277 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74491

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/08/02			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	6.1	UG/L
ETHYLENE	1.0	2.0	UG/L
METHANE	2.0	2.7	UG/L
PROPANE	1.0	2.0	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWD-302D

Date Sampled : 01/30/02 10:30 **Order #:** 528278 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74417

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/11/02			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	570	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	25 U	UG/L
VINYL CHLORIDE	5.0	25 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	94	%
TOLUENE-D8	(87 - 108 %)	101	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD RSK-175 MODIFIED
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWD-302D

Date Sampled : 01/30/02 10:30 **Order #:** 528278 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74491

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/08/02			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	4.1	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	13	UG/L
PROPANE	1.0	1.7	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWS-302S

Date Sampled : 01/30/02 11:00 **Order #:** 528279 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74416

DATE ANALYZED : 02/09/02
ANALYTICAL DILUTION: 1000.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20000 U	UG/L
BENZENE	5.0	5000 U	UG/L
BROMODICHLOROMETHANE	5.0	5000 U	UG/L
BROMOFORM	5.0	5000 U	UG/L
BROMOMETHANE	5.0	5000 U	UG/L
2-BUTANONE (MEK)	10	10000 U	UG/L
CARBON DISULFIDE	10	10000 U	UG/L
CARBON TETRACHLORIDE	5.0	5000 U	UG/L
CHLOROBENZENE	5.0	5000 U	UG/L
CHLOROETHANE	5.0	5000 U	UG/L
CHLOROFORM	5.0	5000 U	UG/L
CHLOROMETHANE	5.0	5000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5000 U	UG/L
1,1-DICHLOROETHANE	5.0	360000 E	UG/L
1,2-DICHLOROETHANE	5.0	5000 U	UG/L
1,1-DICHLOROETHENE	5.0	5000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5000 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5000 U	UG/L
1,2-DICHLOROPROPANE	5.0	5000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5000 U	UG/L
ETHYLBENZENE	5.0	5000 U	UG/L
2-HEXANONE	10	10000 U	UG/L
METHYLENE CHLORIDE	5.0	5000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10000 U	UG/L
STYRENE	5.0	5000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5000 U	UG/L
TETRACHLOROETHENE	5.0	5000 U	UG/L
TOLUENE	5.0	5000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5000 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5000 U	UG/L
TRICHLOROETHENE	5.0	5000 U	UG/L
VINYL CHLORIDE	5.0	5000 U	UG/L
O-XYLENE	5.0	5000 U	UG/L
M+P-XYLENE	5.0	5000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	99	%
TOLUENE-D8	(87 - 108 %)	108	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD RSK-175 MODIFIED
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWS-302S

Date Sampled : 01/30/02 11:00 **Order #:** 528279 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74491

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/08/02			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.1	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : OWS-302S

Date Sampled : 01/30/02 11:00 **Order #:** 528279 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74416

DATE ANALYZED : 02/11/02
ANALYTICAL DILUTION: 2500.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	50000 U	UG/L
BENZENE	5.0	13000 U	UG/L
BROMODICHLOROMETHANE	5.0	13000 U	UG/L
BROMOFORM	5.0	13000 U	UG/L
BROMOMETHANE	5.0	13000 U	UG/L
2-BUTANONE (MEK)	10	25000 U	UG/L
CARBON DISULFIDE	10	25000 U	UG/L
CARBON TETRACHLORIDE	5.0	13000 U	UG/L
CHLOROBENZENE	5.0	13000 U	UG/L
CHLOROETHANE	5.0	13000 U	UG/L
CHLOROFORM	5.0	13000 U	UG/L
CHLOROMETHANE	5.0	13000 U	UG/L
DIBROMOCHLOROMETHANE	5.0	13000 U	UG/L
1,1-DICHLOROETHANE	5.0	370000	UG/L
1,2-DICHLOROETHANE	5.0	13000 U	UG/L
1,1-DICHLOROETHENE	5.0	13000 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	13000 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	13000 U	UG/L
1,2-DICHLOROPROPANE	5.0	13000 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	13000 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	13000 U	UG/L
ETHYLBENZENE	5.0	13000 U	UG/L
2-HEXANONE	10	25000 U	UG/L
METHYLENE CHLORIDE	5.0	13000 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	25000 U	UG/L
STYRENE	5.0	13000 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	13000 U	UG/L
TETRACHLOROETHENE	5.0	13000 U	UG/L
TOLUENE	5.0	13000 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	13000 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	13000 U	UG/L
TRICHLOROETHENE	5.0	13000 U	UG/L
VINYL CHLORIDE	5.0	13000 U	UG/L
O-XYLENE	5.0	13000 U	UG/L
M+P-XYLENE	5.0	13000 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	98	%
TOLUENE-D8	(87 - 108 %)	106	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : TRIP BLANK

Date Sampled : 01/30/02 **Order #:** 528280 **Sample Matrix:** WATER
Date Received: 02/01/02 **Submission #:** R2210533 **Analytical Run** 74417

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/11/02			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	99	%
TOLUENE-D8	(87 - 108 %)	104	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	98	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 530369 ANALYTICAL RUN # : 74416

DATE ANALYZED : 02/08/02
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
ACETONE	20.0	64	50 - 150
BENZENE	20.0	86	70 - 130
BROMODICHLOROMETHANE	20.0	96	70 - 130
BROMOFORM	20.0	87	70 - 130
BROMOMETHANE	20.0	87	50 - 150
2-BUTANONE (MEK)	20.0	74	50 - 150
CARBON DISULFIDE	20.0	66 *	70 - 130
CARBON TETRACHLORIDE	20.0	74	70 - 130
CHLOROBENZENE	20.0	91	70 - 130
CHLOROETHANE	20.0	78	70 - 130
CHLOROFORM	20.0	88	70 - 130
CHLOROMETHANE	20.0	89	70 - 130
DIBROMOCHLOROMETHANE	20.0	92	70 - 130
1,1-DICHLOROETHANE	20.0	87	70 - 130
1,2-DICHLOROETHANE	20.0	96	70 - 130
1,1-DICHLOROETHENE	20.0	75	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	85	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	79	70 - 130
1,2-DICHLOROPROPANE	20.0	87	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	95	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	100	70 - 130
ETHYLBENZENE	20.0	85	70 - 130
2-HEXANONE	20.0	77	70 - 130
METHYLENE CHLORIDE	20.0	88	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	78	70 - 130
STYRENE	20.0	88	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	95	70 - 130
TETRACHLOROETHENE	20.0	89	70 - 130
TOLUENE	20.0	88	70 - 130
1,1,1-TRICHLOROETHANE	20.0	77	70 - 130
1,1,2-TRICHLOROETHANE	20.0	96	70 - 130
TRICHLOROETHENE	20.0	80	70 - 130
VINYL CHLORIDE	20.0	81	70 - 130
O-XYLENE	20.0	86	70 - 130
M+P-XYLENE	40.0	84	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 530373 ANALYTICAL RUN # : 74416

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 02/09/02			
ANALYTICAL DILUTION: 1.0			
ACETONE	20.0	92	50 - 150
BENZENE	20.0	93	70 - 130
BROMODICHLOROMETHANE	20.0	91	70 - 130
BROMOFORM	20.0	92	70 - 130
BROMOMETHANE	20.0	72	50 - 150
2-BUTANONE (MEK)	20.0	92	50 - 150
CARBON DISULFIDE	20.0	76	70 - 130
CARBON TETRACHLORIDE	20.0	88	70 - 130
CHLOROBENZENE	20.0	98	70 - 130
CHLOROETHANE	20.0	89	70 - 130
CHLOROFORM	20.0	89	70 - 130
CHLOROMETHANE	20.0	91	70 - 130
DIBROMOCHLOROMETHANE	20.0	92	70 - 130
1,1-DICHLOROETHANE	20.0	91	70 - 130
1,2-DICHLOROETHANE	20.0	92	70 - 130
1,1-DICHLOROETHENE	20.0	83	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	93	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	92	70 - 130
1,2-DICHLOROPROPANE	20.0	89	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	91	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	96	70 - 130
ETHYLBENZENE	20.0	96	70 - 130
2-HEXANONE	20.0	94	70 - 130
METHYLENE CHLORIDE	20.0	88	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	94	70 - 130
STYRENE	20.0	97	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	97	70 - 130
TETRACHLOROETHENE	20.0	103	70 - 130
TOLUENE	20.0	96	70 - 130
1,1,1-TRICHLOROETHANE	20.0	90	70 - 130
1,1,2-TRICHLOROETHANE	20.0	95	70 - 130
TRICHLOROETHENE	20.0	93	70 - 130
VINYL CHLORIDE	20.0	93	70 - 130
O-XYLENE	20.0	93	70 - 130
M+P-XYLENE	40.0	93	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: 8260B TCL

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 530377 ANALYTICAL RUN # : 74417

DATE ANALYZED : 02/11/02
ANALYTICAL DILUTION: 1.0

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
ACETONE	20.0	104	50 - 150
BENZENE	20.0	100	70 - 130
BROMODICHLOROMETHANE	20.0	113	70 - 130
BROMOFORM	20.0	111	70 - 130
BROMOMETHANE	20.0	67	50 - 150
2-BUTANONE (MEK)	20.0	107	50 - 150
CARBON DISULFIDE	20.0	108	70 - 130
CARBON TETRACHLORIDE	20.0	83	70 - 130
CHLOROBENZENE	20.0	105	70 - 130
CHLOROETHANE	20.0	92	70 - 130
CHLOROFORM	20.0	101	70 - 130
CHLOROMETHANE	20.0	96	70 - 130
DIBROMOCHLOROMETHANE	20.0	110	70 - 130
1,1-DICHLOROETHANE	20.0	100	70 - 130
1,2-DICHLOROETHANE	20.0	113	70 - 130
1,1-DICHLOROETHENE	20.0	82	70 - 130
CIS-1,2-DICHLOROETHENE	20.0	101	70 - 130
TRANS-1,2-DICHLOROETHENE	20.0	95	70 - 130
1,2-DICHLOROPROPANE	20.0	99	70 - 130
CIS-1,3-DICHLOROPROPENE	20.0	107	70 - 130
TRANS-1,3-DICHLOROPROPENE	20.0	118	70 - 130
ETHYLBENZENE	20.0	96	70 - 130
2-HEXANONE	20.0	112	70 - 130
METHYLENE CHLORIDE	20.0	108	70 - 130
4-METHYL-2-PENTANONE (MIBK)	20.0	113	70 - 130
STYRENE	20.0	106	70 - 130
1,1,2,2-TETRACHLOROETHANE	20.0	114	70 - 130
TETRACHLOROETHENE	20.0	96	70 - 130
TOLUENE	20.0	99	70 - 130
1,1,1-TRICHLOROETHANE	20.0	89	70 - 130
1,1,2-TRICHLOROETHANE	20.0	111	70 - 130
TRICHLOROETHENE	20.0	92	70 - 130
VINYL CHLORIDE	20.0	94	70 - 130
O-XYLENE	20.0	99	70 - 130
M+P-XYLENE	40.0	95	70 - 130

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 530368 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 74416

DATE ANALYZED : 02/08/02
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	95	%
TOLUENE-D8	(87 - 108 %)	103	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 530372 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 74416

DATE ANALYZED : 02/09/02
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	98	%
TOLUENE-D8	(87 - 108 %)	103	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	97	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 02/20/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 530374 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 74417

DATE ANALYZED : 02/11/02
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	100	%
TOLUENE-D8	(87 - 108 %)	106	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	99	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD: RSK-175 MODIFIED

LABORATORY CONTROL SAMPLE SUMMARY

REFERENCE ORDER #: 530766 ANALYTICAL RUN # : 74491

ANALYTE	TRUE VALUE	% RECOVERY	QC LIMITS
DATE ANALYZED : 02/07/02			
ANALYTICAL DILUTION: 1.0			
ETHANE	30.5	73	50 - 150
ETHYLENE	28.5	82	50 - 150
METHANE	16.3	80	50 - 150
PROPANE	45.4	82	50 - 150

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD RSK-175 MODIFIED
Reported: 02/20/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 530765 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 74491

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/08/02			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR #

CAS Contact

Project Name	Project Number
COOPERVISION	70665-007
Project Manager	**Report CC**
VINCE DICK	
Company/Address	
HALEY & ALDRICH OF NEW YORK	
200 TOWN CENTRE DRIVE SUITE 2	
ROCHESTER, NY 14623	
Phone #	**FAX#**
359-9000	359-4650
Sampler's Signature	**Sampler's Printed Name**
Glenn White	GLENN WHITE

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1 | 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STARS LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STARS LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ METALS ☐ VOA's ☐ SVOA's	WASTE CHARACTERIZATION ☐ H/P ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	RSK-175				REMARKS/ ALTERNATE DESCRIPTION
MW-202	528269	1/28/02	12:45	H_2O	3	X														
MW-203	528270	1/29/02	8:45	H_2O	3	X														
MW-204	528271	1/28/02	11:00	H_2O	3	X														
MW-205	528272	1/29/02	12:00	H_2O	6	X									X					
MW-2	528273	1/28/02	2:00	H_2O	3	X														
OW-304	528274	1/29/02	9:20	H_2O	3	X														
MW-401	528275	1/29/02	1:40	H_2O	3	X														
MW-402	528276	1/28/02	12:00	H_2O	3	X														
MW-403 *	HOLD	1/29/02	11:15	H_2O	6	X									X					* hold per Sue Pople
MW-502	528277	1/28/02	2:45	H_2O	6	X									X					

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
X I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO: SAME
SUBMISSION #: R2210533

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 4°C CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature	Signature	Signature	Signature
Printed Name: Scott Amorowicz	Printed Name: Gregory V. Esmerian	Printed Name	Printed Name	Printed Name	Printed Name
Firm: A3A	Firm: CRS	Firm	Firm	Firm	Firm
Date/Time: 2/1/02 1000	Date/Time: 2-1-02 10:00	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

F2830

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SR #
CAS Contact

Project Name: COOPERVISION	Project Number: 70665-007
Project Manager: VINCE DICK	Report CC:
Company/Address: HALEY & ALDRICH of NEW YORK, 200 TOWN CENTRE DRIVE, SUITE 2, ROCHESTER, NY 14623	
Phone #: 359-9000	FAX#: 359-4650
Sampler's Signature: Glenn White	Sampler's Printed Name: GLENN WHITE

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES/ PCB's ☐ 8081 ☐ 608 ☐ CLP ☐ 8082	STAR'S LIST 8021 VOA's ☐ TOTAL ☐ TCLP	STAR'S LIST 8270 SVOA's ☐ TOTAL ☐ TCLP	TCLP ☐ VOA's ☐ SVOA's ☐ METALS ☐ H/P	WASTE CHARACTERIZATION ☐ React ☐ Corros. ☐ Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	RSK-175					REMARKS/ ALTERNATE DESCRIPTION
PRESERVATIVE						1										1					
OWD-302D	528278	1/30/02	10:30	H2O	6	X										X					
OWS-302S	528279	1/30/02	11:00	H2O	6	X										X					
TRIP BLANK	528280	—	—	H2O	3	X															

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other ______

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE ______
REQUESTED REPORT DATE ______

REPORT REQUIREMENTS
X I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO: SAME
R2210533
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 1°C CUSTODY SEALS: Y N

	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	S. A.	[signature]				
Printed Name	Scott Ambrosewicz	Gregory A. Emerian				
Firm	H&A	CAS				
Date/Time	/1/02 1000	2-1-02 10:00				

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

#2831

Cooler Receipt And Preservation Check Form

Project/Client H+A Submission Number R2210533

Cooler received on 2-1-02 by: KE COURIER: CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?					YES / (NO)
2.	Were custody papers properly filled out (ink, signed, etc.)?					(YES) NO
3.	Did all bottles arrive in good condition (unbroken)?					(YES) NO
4.	Did any VOA vials have significant air bubbles?					YES (NO) N/A
5.	Were Ice or (Ice packs) present?					(YES) NO
6.	Where did the bottles originate?					(CAS/ROC,) CLIENT
7.	Temperature of cooler(s) upon receipt:	1.0				
	Is the temperature within 0° - 6° C?:	(Yes)	Yes	Yes	Yes	Yes
	If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 2-1-02 @ 10:04

Thermometer ID: 161 (Temp Blank) Sample Bottle Cooler Temp. IR. Gun

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 2-4-02 by: KE

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?		(YES) NO
2.	Did all bottle labels and tags agree with custody papers?		(YES) NO
3.	Were correct containers used for the tests indicated?		(YES) NO
4.	Air Samples: Cassettes / Tubes Intact	Canisters Pressurized	Tedlar® Bags Inflated (N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-11 pH slurry*	CLP SVOA					
5-9 pH slurry*	CLP* P/PCBs					
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*Do not adjust pH! Report in C/N **If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

Columbia Analytical Services inc.

A FULL SERVICE ENVIRONMENTAL LABORATORY

March 4, 2002

Mr. Vincent Dick
Haley & Aldrich of New York
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

PROJECT:COOPERVISION #70665-007
Submission #:R2210705

Dear Mr. Dick:

Enclosed are the analytical results of the analyses requested. The analytical data was provided to you on 03/01/02 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at (716) 288-5380.

Thank you for letting us provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Karen Bunker

Karen Bunker
Project Manager

Enc.

Columbia Analytical Services inc.

1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client	: Haley & Aldrich of New York
Project Reference	: COOPERVISION #70665-007
Lab Submission #	: R2210705
Project Manager	: Karen Bunker
Reported	: 03/04/02

Report Contains a total of 13 pages

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. Michael K. Perry

Columbia Analytical Services inc.

CASE NARRATIVE

This report contains analytical results for the following samples:

Submission #: R2210705

Lab ID	Client ID
531220	MW-3
531221	MW-501
531222	TRIP BLANK 2-15

All samples were received in good condition.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

Columbia Analytical Services INC.

An Employee - Owned Company

Effective 2/8/02

CAS LIST OF QUALIFIERS

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analysis only)

* - Inorganic Duplicate analysis not within control limits. Flag the entire batch - Inorganic analysis only

* - Organics QC data outside limits.

D - Spike diluted out.

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

CAS/Rochester Lab ID # for State Certifications

American Industrial Hygiene Assoc. ID #:100314
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited

NELAP Accredited
New York ID # 10145
New Jersey ID # NY004
New Hampshire ID # 294100 A/B
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292

ACCREDITED IN ACCORDANCE WITH nelac

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 03/04/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-3

Date Sampled : 02/15/02 10:45 **Order #:** 531220 **Sample Matrix:** WATER
Date Received: 02/15/02 **Submission #:** R2210705 **Analytical Run** 74841

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/25/02			
ANALYTICAL DILUTION: 50.00			
ACETONE	20	1000 U	UG/L
BENZENE	5.0	250 U	UG/L
BROMODICHLOROMETHANE	5.0	250 U	UG/L
BROMOFORM	5.0	250 U	UG/L
BROMOMETHANE	5.0	250 U	UG/L
2-BUTANONE (MEK)	10	500 U	UG/L
CARBON DISULFIDE	10	500 U	UG/L
CARBON TETRACHLORIDE	5.0	250 U	UG/L
CHLOROBENZENE	5.0	250 U	UG/L
CHLOROETHANE	5.0	250 U	UG/L
CHLOROFORM	5.0	250 U	UG/L
CHLOROMETHANE	5.0	250 U	UG/L
DIBROMOCHLOROMETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHANE	5.0	2800	UG/L
1,2-DICHLOROETHANE	5.0	250 U	UG/L
1,1-DICHLOROETHENE	5.0	2000	UG/L
CIS-1,2-DICHLOROETHENE	5.0	250 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	250 U	UG/L
1,2-DICHLOROPROPANE	5.0	250 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	250 U	UG/L
ETHYLBENZENE	5.0	250 U	UG/L
2-HEXANONE	10	500 U	UG/L
METHYLENE CHLORIDE	5.0	250 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	500 U	UG/L
STYRENE	5.0	250 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	250 U	UG/L
TETRACHLOROETHENE	5.0	250 U	UG/L
TOLUENE	5.0	250 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	9100	UG/L
1,1,2-TRICHLOROETHANE	5.0	250 U	UG/L
TRICHLOROETHENE	5.0	250 U	UG/L
VINYL CHLORIDE	5.0	250 U	UG/L
O-XYLENE	5.0	250 U	UG/L
M+P-XYLENE	5.0	250 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	99	%
TOLUENE-D8	(87 - 108 %)	105	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	99	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD RSK-175 MODIFIED
Reported: 03/04/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-3

Date Sampled : 02/15/02 10:45 **Order #:** 531220 **Sample Matrix:** WATER
Date Received: 02/15/02 **Submission #:** R2210705 **Analytical Run** 74992

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/27/02			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	3.9	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	20	UG/L
PROPANE	1.0	2.0	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 03/04/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-501

Date Sampled : 02/15/02 09:45 **Order #:** 531221 **Sample Matrix:** WATER
Date Received: 02/15/02 **Submission #:** R2210705 **Analytical Run** 74841

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/23/02			
ANALYTICAL DILUTION: 5.00			
ACETONE	20	100 U	UG/L
BENZENE	5.0	25 U	UG/L
BROMODICHLOROMETHANE	5.0	25 U	UG/L
BROMOFORM	5.0	25 U	UG/L
BROMOMETHANE	5.0	25 U	UG/L
2-BUTANONE (MEK)	10	50 U	UG/L
CARBON DISULFIDE	10	50 U	UG/L
CARBON TETRACHLORIDE	5.0	25 U	UG/L
CHLOROBENZENE	5.0	25 U	UG/L
CHLOROETHANE	5.0	25 U	UG/L
CHLOROFORM	5.0	25 U	UG/L
CHLOROMETHANE	5.0	25 U	UG/L
DIBROMOCHLOROMETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHANE	5.0	960	UG/L
1,2-DICHLOROETHANE	5.0	25 U	UG/L
1,1-DICHLOROETHENE	5.0	25 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	25 U	UG/L
1,2-DICHLOROPROPANE	5.0	25 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	25 U	UG/L
ETHYLBENZENE	5.0	25 U	UG/L
2-HEXANONE	10	50 U	UG/L
METHYLENE CHLORIDE	5.0	25 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	50 U	UG/L
STYRENE	5.0	25 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	25 U	UG/L
TETRACHLOROETHENE	5.0	25 U	UG/L
TOLUENE	5.0	25 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	25 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	25 U	UG/L
TRICHLOROETHENE	5.0	25 U	UG/L
VINYL CHLORIDE	5.0	25 U	UG/L
O-XYLENE	5.0	25 U	UG/L
M+P-XYLENE	5.0	25 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	99	%
TOLUENE-D8	(87 - 108 %)	106	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD RSK-175 MODIFIED
Reported: 03/04/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : MW-501

Date Sampled : 02/15/02 09:45 **Order #:** 531221 **Sample Matrix:** WATER
Date Received: 02/15/02 **Submission #:** R2210705 **Analytical Run** 74992

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/27/02			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.8	UG/L
ETHYLENE	1.0	1.2	UG/L
METHANE	2.0	20	UG/L
PROPANE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 03/04/02

Haley & Aldrich of New York
Project Reference: COOPERVISION #70665-007
Client Sample ID : TRIP BLANK 2-15

Date Sampled : 02/15/02 **Order #:** 531222 **Sample Matrix:** WATER
Date Received: 02/15/02 **Submission #:** R2210705 **Analytical Run** 74841

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/25/02			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	100	%
TOLUENE-D8	(87 - 108 %)	105	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	104	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 03/04/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 533145 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 74841

DATE ANALYZED : 02/23/02
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	102	%
TOLUENE-D8	(87 - 108 %)	108	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	102	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B TCL
Reported: 03/04/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 533148 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 74841

DATE ANALYZED : 02/25/02
ANALYTICAL DILUTION: 1.00

ANALYTE	PQL	RESULT	UNITS
ACETONE	20	20 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
VINYL CHLORIDE	5.0	5.0 U	UG/L
O-XYLENE	5.0	5.0 U	UG/L
M+P-XYLENE	5.0	5.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(87 - 111 %)	100	%
TOLUENE-D8	(87 - 108 %)	107	%
DIBROMOFLUOROMETHANE	(86 - 117 %)	100	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD RSK-175 MODIFIED
Reported: 03/04/02

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 534270 **Sample Matrix:** WATER
Date Received: **Submission #:** **Analytical Run** 74992

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 02/27/02			
ANALYTICAL DILUTION: 1.00			
ETHANE	1.0	1.0 U	UG/L
ETHYLENE	1.0	1.0 U	UG/L
METHANE	2.0	2.0 U	UG/L
PROPANE	1.0	1.0 U	UG/L

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

Analytical Services INC. — An Employee-Owned Company — www.caslab.com

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (716) 288-5380 • 800-695-7222 x11 • FAX (716) 288-8475 PAGE 1 OF 1

CAS Contact

Project Name: Coopervision	Project Number: 706665-007
Project Manager: Vince Dick	Report CC:
Company/Address: H&A 200 Town Centre Drive Rochester, NY 14623	
Phone #: 359.9000	FAX#: 359.4650
Sampler's Signature: S. Ambrozowicz	Sampler's Printed Name: Scott Ambrozowicz

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1 | 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐8260 ☐624 ☐CLP	GC/MS SVOA's ☐8270 ☐625 ☐CLP	GC VOA's ☐8021 ☐601/602	PESTICIDES/PCB's ☐8081 ☐608 ☐CLP ☐8082	STAR'S LIST 8021 VOA's ☐TOTAL ☐TCLP	STAR'S LIST 8270 SVOA's ☐TOTAL ☐TCLP	TCLP ☐VOA's ☐METALS ☐SVOA's ☐H/P	WASTE CHARACTERIZATION ☐React ☐Corros. ☐Ignit.	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	RSK-175	REMARKS/ ALTERNATE DESCRIPTION
MW-3	531220	2/15	1045	AQ	6	X									X		
MW-501	531221	2/15	945	↓	6	X									X		
Trip Blank 2-15	531222	—	—	↓	3	X											

Preservative Key: 0. NONE; 1. HCL; 2. HNO_3; 3. H_2SO_4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. $NaHSO_4$; 8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO: SAME
SUBMISSION #: R0010705

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 11 CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: S. Ambrozowicz	Signature: Gregory O'Emeran	Signature	Signature	Signature	Signature
Printed Name: H&A	Printed Name: Gregory O'Emeran	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 2/15 1205	Date/Time: 2-15-02 12:05	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-0101-08

H3731

Cooler Receipt And Preservation Check Form

Project/Client H+A Submission Number R2210705

Cooler received on 2-15-02 by: ME **COURIER:** CAS UPS FEDEX CD&L (CLIENT)

1.	Were custody seals on outside of cooler?					YES / (NO)
2.	Were custody papers properly filled out (ink, signed, etc.)?					(YES) NO
3.	Did all bottles arrive in good condition (unbroken)?					(YES) NO
4.	Did any VOA vials have significant air bubbles?					YES (NO) N/A
5.	Were **Ice** or **Ice packs** present?					YES (NO)
6.	Where did the bottles originate?					(CAS/ROC) CLIENT
7.	Temperature of cooler(s) upon receipt:	11°				
	Is the temperature within 0° - 6° C?:	Yes	Yes	Yes	Yes	Yes
	If No, Explain Below	(No)	No	No	No	No

Date/Time Temperatures Taken: 2-15-02 @ 12:12

Thermometer ID: IR-Gun Temp Blank Sample Bottle Cooler Temp. (IR. Gun)

If out of Temperature, Client Approval to Run Samples 4 hr Rule

Cooler Breakdown: Date: 2-15-02 by: [illegible]

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES) NO	
2.	Did all bottle labels and tags agree with custody papers?	(YES) NO	
3.	Were correct containers used for the tests indicated?	(YES) NO	
4.	Air Samples: Cassettes / Tubes Intact	Canisters Pressurized	Tedlar® Bags Inflated (N/A)

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
Residual Chlorine (+/-)	for TCN & Phenol					
5-11 pH slurry*	CLP SVOA					
5-9 pH slurry*	CLP* P/PCBs					
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

*Do not adjust pH! Report in C/N **If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

APPENDIX D

WASTE MANAGEMENT RECORDS

NYG 2973609

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple

(Hazardous Waste Manifest 1/5/99)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Information within heavy bold line is not required by Federal Law.
NYD073668279	73609	1	

3. Generator's Name and Mailing Address: Cooper Vision
711 North Road
Scottsville NY 14546-1238

4. Generator's Telephone Number (716) 985-6811

A. NYG 2973609

B. Generator's ID: SAME

5. Transporter 1 (Company Name)	6. US EPA ID Number
Freehold Cartage, Inc.	NJD054126164
7 Transporter 2 (Company Name)	8. US EPA ID Number

C. State Transporter's ID: 040336 ME
D. Transporter's Telephone (732) 462-1001
E. State Transporter's ID:
F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address	10. US EPA ID Number
CWM Chemical Services, LLC 1550 Balmer Road Model City NY 14107	NYD049836679

G. State Facility ID:
H. Facility Telephone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous waste, solid, n.o.s.(F001) 9, NA3077, III	006	DM	2400	P	EPA F001 STATE
b. RQ Hazardous waste, liquid, n.o.s. (F001) 9, NA3082, III	01B	DM	660	G	EPA STATE F001
c					EPA STATE
d.					EPA STATE

J. Additional Descriptions for Materials listed Above		K. Handling Codes for Wastes Listed Above	
a Drill Cuttings	c	a L	c
b Purge Water	d	b L	d

15. Special Handling Instructions and Additional Information
WTS#1726 WO#607441
a.CG5339 ERG# 171 Emer. Contact: 377-0605
b.CG5340 ERG# 171 (716)

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Mo.	Day	Year
TARUN K. PATEL	Patel	08	07	01

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year
ROGER WADELL	Roger Wadell	08	07	01

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Mo.	Day	Year

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

COPY 3 - Disposer Mailed by Generator

NYG 2975076

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple

(Hazardous Waste Manifest 1/5/99)

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of	Information within heavy bold line is not required by Federal Law.
NYD073668279	68731	1	

GENERATOR

3. Generator's Name and Mailing Address: Cooper Vision
711 North Road
Scottsville NY 14546-1238

4. Generator's Telephone Number (716) 985-6811

A. NYG 2975076

B. Generator's ID: SAME

5. Transporter 1 (Company Name): Frank's Vacuum Truck Service — 6. US EPA ID Number: NYD982792814

C. State Transporter's ID: 4457MNY

D. Transporter's Telephone (716) 284-2132

7. Transporter 2 (Company Name) — 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address:
CWM Chemical Services, LLC
1550 Balmer Road
Model City NY 14107

10. US EPA ID Number: NYD049836679

G. State Facility ID

H. Facility Telephone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous waste, liquid, n.o.s. (F001) 9, NA3082, III	032	DM	1870	G	EPA F001 / STATE
b.					EPA / STATE
c					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. Purge Water
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. L
b.
c.
d.

15. Special Handling Instructions and Additional Information
WTS#1726 SR#
Emer. Contact: 385-6811 (716)
a.CG5340 ERG# 171

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Mo.	Day	Year
TARUN PATEL	Patel	09	27	01

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year
ALFONSO CUTAIA	Alfonso Cutaia	09	27	01

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Mo.	Day	Year

COPY 3 - Driver's Mailable Copy

NYG 2975067

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple

(Hazardous Waste Manifest 1/5/99)

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD073668279
Manifest Doc. No.:
2. Page 1 of: 1
Information within heavy bold line is not required by Federal Law.

GENERATOR

3. Generator's Name and Mailing Address: Cooper Vision
711 North Road
Scottsville NY 14546-1238
4. Generator's Telephone Number (716) 985-6811

A. NYG 2975067
B. Generator's ID: SAME

5. Transporter 1 (Company Name): Hazmat Environmental Group
6. US EPA ID Number: NYD980769947
C. State Transporter's ID: PT 10013 NY
D. Transporter's Telephone (716) 827-7200

7. Transporter 2 (Company Name):
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Telephone ( )

9. Designated Facility Name and Site Address: CWM Chemical Services, LLC
1550 Balmer Road
Model City NY 14107
10. US EPA ID Number: NYD049836679
G. State Facility ID:
H. Facility Telephone (716) 754-8231

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous waste, solid, n.o.s.(F001) 9, NA3077, III	001	CM	15	T	EPA F001 / STATE
b.					EPA / STATE
c					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials listed Above
a. Drill Cuttings
c
b
d

K. Handling Codes for Wastes Listed Above
a. L
c
b
d

15. Special Handling Instructions and Additional Information
WTS#1726 Conf#
Emer. Contact: 716-264-3213
a.CG5339 ERG# 171

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: TARUN PATEL
Signature: Patel
Mo. 09 Day 26 Year 01

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Allen L Hall
Signature: Allen L. Hall
Mo. 09 Day 26 Year 01

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Mo. Day Year

COPY 2 - Disposer Status Mailable Copy

HAZMAT

ENVIRONMENTAL GROUP, INC
60 Commerce Drive, Buffalo, NY 14218
www.hazmatinc.com

FAX (716) 827-7217
(716) 827-7200

HAZMAT

NYDEC #9A-278
EPA ID# NYD980769947

DATE 9/26/01 21221

PICK UP

SHIPPER

NAME Cooper Vision
STREET 711 North Rd.
CITY Scottsville STATE NY ZIP CODE
CONTACT NAME Vicki Chase PHONE
SCHEDULED TIME 8:00 AM

DELIVERY

CONSIGNEE

NAME C.W.M.
STREET
CITY Model City STATE NY ZIP CODE
CONTACT NAME PHONE

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
If damaged at pickup site, did you send in Equipment Damage Report (EDR) via Qualcomm? Y N Explain damage below.

Pursuant to 6NYCRR 372.2 (b) (2) (ii) HazMat certifies that it is authorized to deliver this shipment of manifested waste to the TSDF listed on this Bill of Lading

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
If damaged at delivery site, did you send in Equipment Damage Report (EDR) via Qualcomm? Y N Explain damage below.

PURCHASE ORDER NO.	WORK ORDER NUMBER	MANIFEST NUMBER	H.M. NUMBER
1776	613178	NYG 1975617	174839

LOAD NUMBER	TRACTOR	TRAILER	ROLL OFF BOX	DRIVER NUMBER	DRIVER'S NAME
174839	245	K20	RB109	1304	Al Hall

EQUIPMENT	MATERIAL DESCRIPTION / MANIFEST NUMBER	QUANTITY
EQUIPMENT TYPE K20 UNIT# DROPPED ____ UNIT# PICKED UP RB109 CONDITION REPORT ____	9 NA 3077 PG III	15 T

PICK UP

PICK UP DATE 9/26/01
ARRIVAL TIME 7:45 AM PM RELEASE TIME 8:30 AM PM
DAY #2 DATE ____
ARRIVAL TIME ____ AM PM RELEASE TIME ____ AM PM

TRAILER EMPTY UPON ARRIVAL ☐ YES
(if not, explain below—)
DIP MEASUREMENT (Tankers Only) ____ INCHES
COMMENTS: (EXPLAIN ALL DELAYS) Pick up
RB109

HAZMAT MATERIALS USED (ex. overpacks, etc.): ☐ YES ☐ NO
IF YES EXPLAIN:

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

SHIPPER'S SIGNATURE Date 9/26/01

DELIVERY

DRIVER ____ DAY #1 DATE ____
ARRIVAL TIME ____ AM PM RELEASE TIME ____ AM PM
DAY #2 DATE ____ ARRIVAL TIME ____ AM PM RELEASE TIME ____ AM PM
DAY #3 DATE ____ ARRIVAL TIME ____ AM PM RELEASE TIME ____ AM PM

TRAILER CLEAN AND EMPTY UPON DEPARTURE ☐ YES ☐ NO
(if not, explain below—)
COMMENTS: (Explain all delays or discrepancies)) ____

IF YES EXPLAIN:

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

CONSIGNEE'S SIGNATURE Date

GENERATOR COPY

FRANK'S VACUUM TRUCK SERVICE, INC.
4500 Royal Avenue • Niagara Falls, New York 14303
(716) 284-2132

NYDEC #9A-332
EPA ID # NYD982792814

66728

DATE 9/2/2003

PICK UP (SHIPPER)		DELIVERY (CONSIGNEE)	
NAME		NAME	
STREET		STREET	
CITY	STATE ZIP CODE	CITY	STATE ZIP CODE
CONTACT NAME		CONTACT NAME	
SCHEDULED TIME		SCHEDULED TIME	

ADDITIONAL INFORMATION

CUSTOMER P.O. NO.	WORK ORDER NUMBER	MANIFEST NUMBER	BILLING REFERENCE
		23731	
LOAD NUMBER	**TRACTOR NUMBER**	**TRAILER NUMBER**	**DRIVER'S NAME**
		4	

NUMBER & TYPES	WEIGHT OR VOLUME	HAZ. MAT.	DESCRIPTION OF WASTE(S) PER 49 CFR	CUSTOMER CODE #
	50		Drums	

TYPE (CIRCLE ONE)	PLACARDS PROVIDED OR AFFIXED		WHEN "RQ" QUANTITY RELEASED INTO ENVIRONMENT, IMMEDIATELY NOTIFY NAT. RESPONSE CENTER - 800-424-8802 AND 911 EMERGENCY SYSTEM OR LOCAL OPERATOR	EMERGENCY RESPONSE PHONE NUMBER:
TANK (S/S) (R/L)				
VAC				
DUMP	SHIPPER'S CHECK LIST			
VAN	☐ DOT LABELS APPLIED AND SECURE	☐ DOT AUTHORIZED CONTAINERS		
ROLL-OFF	☐ PROPER DOT NAME ON ALL PACKAGES	☐ CHECKED FOR PROPER SEALING		
FLATBED				

PICK UP	DELIVERY
ARRIVAL DATE 9.22.03	DRIVER _____ DATE _____
ARRIVAL TIME 12:00 AM/PM RELEASE TIME 2:30 AM/PM	ARRIVAL TIME _____ AM/PM RELEASE TIME _____ AM/PM
TRAILER EMPTY UPON ARRIVAL ☐ YES ☐ NO (If not, explain below)	TRAILER EMPTY UPON DEPARTURE ☐ YES ☐ NO (If not, explain below)
DIP MEASUREMENT (Tankers Only) _____ INCHES	COMMENTS: (EXPLAIN ALL DELAYS) _____
COMMENTS: (EXPLAIN ALL DELAYS) _____	

SHIPPERS CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

X _____ TITLE _____
SHIPPER'S SIGNATURE

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

X _____
CONSIGNEE'S SIGNATURE

GENERATOR

Please attach and return with Hazmat Bill

HAZMAT ENVIRONMENTAL GROUP, INC.

ROLL-OFF BOX CONDITION REPORT

CHECK APPROPRIATE BOX

DROP CONDITION REPORT ☐

PICK-UP CONDITION REPORT ☒

DATE 9/26/01

BOX # RB109

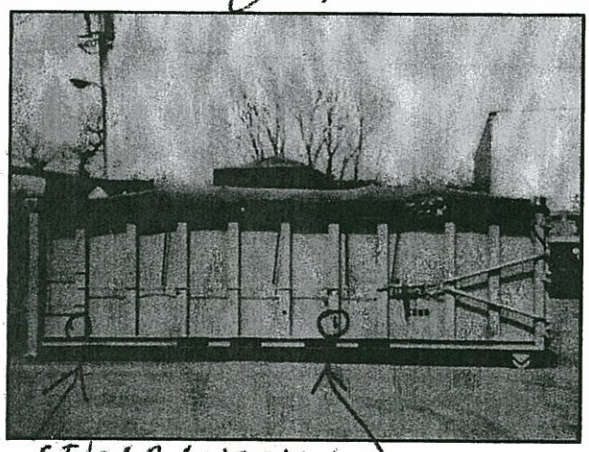
HM # 174839.

DRIVER AL HALL

CUSTOMER Cooper Vision

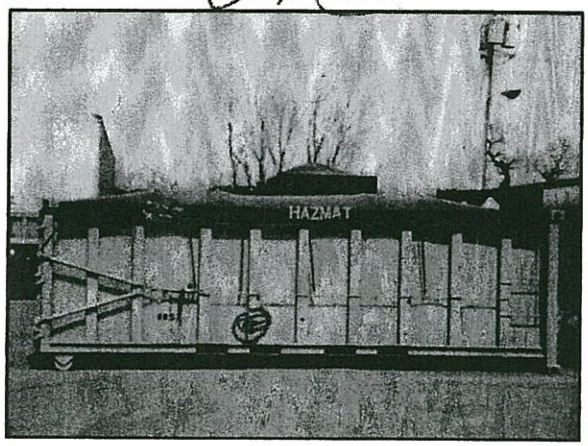
O K

LEFT SIDE



O K

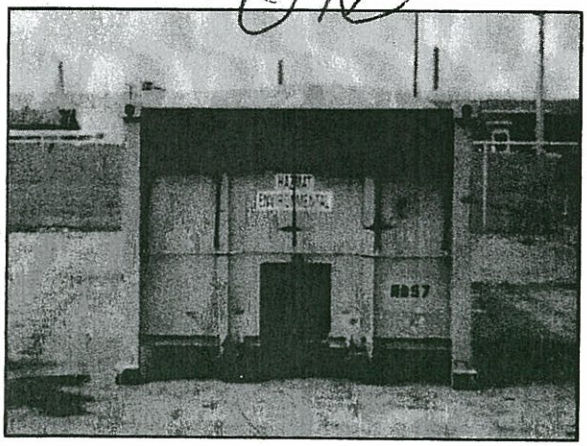
RIGHT SIDE



STRAP MISSING
RATCHET BROKEN

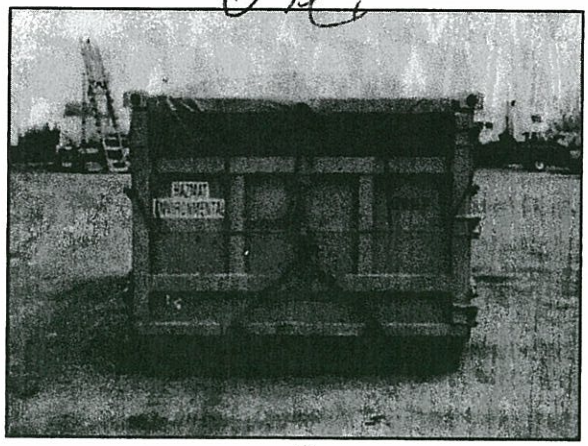
O K

FRONT



O K

BACK



O K

TARP

O K

BOWS

DESCRIBE ANY DAMAGE OR MISSING ITEMS IN THE APPROPRIATE BOX

Customer Signature Charlie Case Date 9/26/01

Please attach and return with Hazmat Bill

HAZMAT ENVIRONMENTAL GROUP, INC.

ROLL-OFF BOX CONDITION REPORT

CHECK APPROPRIATE BOX

DROP CONDITION REPORT ☒

PICK-UP CONDITION REPORT ☐

DATE 7/31/01

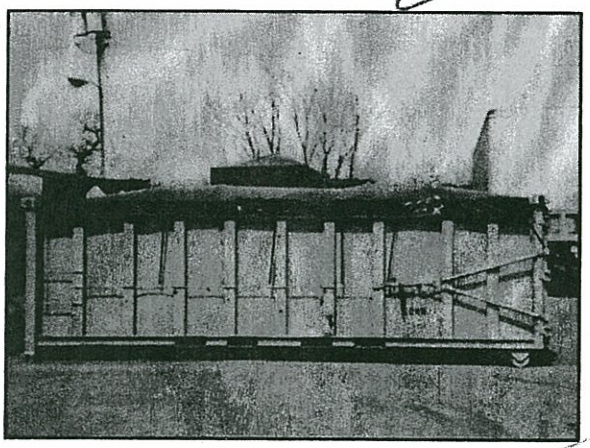
BOX # RB109

HM # 171956

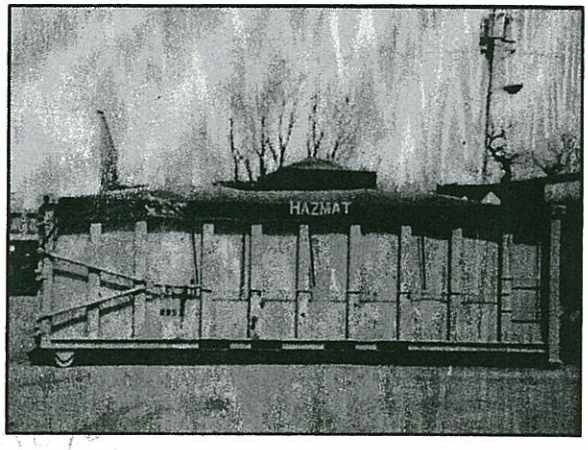
DRIVER D. Johnsen

CUSTOMER ~~Cooper~~ Vision

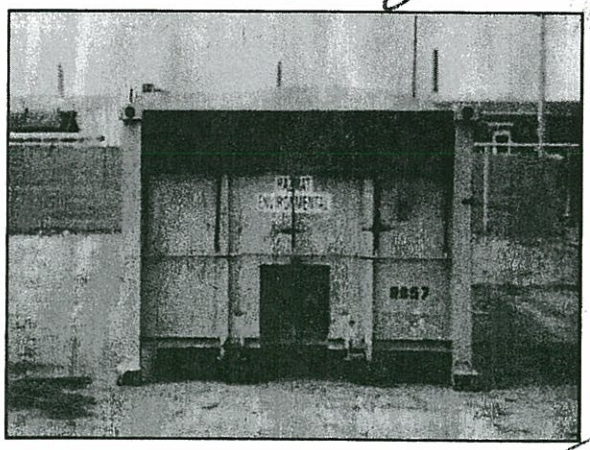
LEFT SIDE



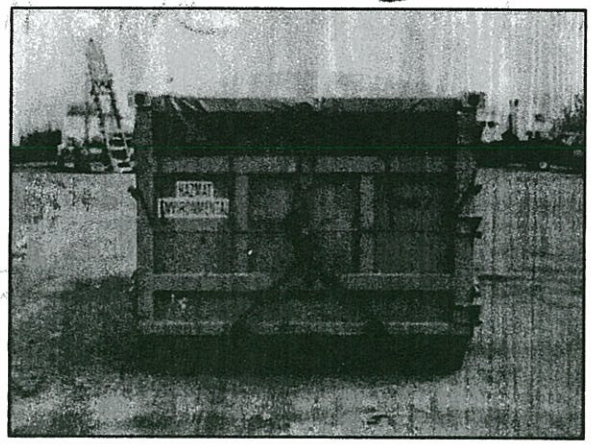
RIGHT SIDE



FRONT



BACK



TARP

BOWS

DESCRIBE ANY DAMAGE OR MISSING ITEMS IN THE APPROPRIATE BOX

Customer Signature X Michelle Coe Date X 7/31/01