ENVIRONMENTAL COMPLIANCE CONSULTANTS, INC.

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SITE INVESTIGATION REPORT

FOR

EAGLE CLEANERS

(DNR BRRTS #02-64-269753)
ECCI Project #01607

320 WALL STREET
EAGLE RIVER, WI 54521

Prepared for

Lawrence and Sharon Favorite, Owner
Eagle River, Wisconsin

October 2004

Sharing Your Concerns. Creating Sound Solutions.

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I, Jeffrey S. Lynott, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. code; that I am a registered professional geologist in the State of Wisconsin, registered in accordance with the requirements of Ch. GHSS 2, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in Ch. GHSS 5, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in Chs. NR 700 to 754, Wis. Adm. Code.

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JEFFREY S. LYNOTT
383
RHINELANDER
WI
HYDROGEOLOGIST

Jeffrey S. Lynott 10/12/04
Prof. Geologist #383 (Date)

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TABLE OF CONTENTS

LIST OF APPENDICES

EXECUTIVE SUMMARY

The purpose of this investigation was to define the degree and extent of a chlorinated solvent release at Eagle Cleaners, located in the business district of the city of Eagle River. Chlorinated solvents have been previously identified at several locations in the downtown area. When chlorinated solvents were discovered around the perimeter of Eagle Cleaners in 1999, the Wisconsin Department of Natural Resources postulated that releases at the site could be responsible for the other occurrences in the area. An investigation has been completed and the results will show the relationship between the release from this location and the other known chlorinated solvent impacts

This property has been used as a dry cleaning facility from the 1940s to the present time. Stoddard solvents were used in the dry cleaning operation from 1966 to1985, and a tetrachloroethylene (PCE)-based solvent has been used since 1985. Solvent consumption during the period 1985 through 1991 was approximately 150 gallons per year. A 100-gallon aboveground tank was located within the building for PCE solvent storage until 1991. A new dry cleaning system, which uses much smaller amounts of solvent, was installed in 1991 and is still in use at the present time. The PCE storage tank was no longer needed and was removed when the new system was installed. Wausau Chemical Company supplies the solvent for the dry cleaning system and also collects and disposes of the waste residues.

The city of Eagle River is situated on a flat, sandy, glacial outwash plain, more than 30 meters thick, resting on Proterozoic volcaniclastic metasedimentary bedrock. One of the remnants of the outwash river system that formed this alluvial sequence is the Eagle River, located approximately 2,000 feet to the northwest of the subject site. The water table aquifer occurs approximately ten feet below grade and appears to be flowing northwest toward the Eagle River. Potential receptors of this solvent release include not only the Eagle River, but the three municipal water supply wells located approximately 4,000 feet west and northwest of the site.

Research conducted during the investigation revealed twelve sites in the business district with documented gasoline and diesel releases and three sites with documented chlorinated solvent releases. In addition to the Eagle Cleaners, the other two chlorinated solvent releases include Don's Standard and the Eagle River Service Center. Both of these sites are located to the west and northwest of the Eagle Cleaners. In order to define the degree and extent of the release from the subject site, soil borings were advanced around the Eagle Cleaners building and to the west and northwest. Ten of the borings were converted into monitoring wells to evaluate the impact to groundwater. Samples were collected to evaluate the occurrence of chlorinated solvents in the soil; and groundwater samples were collected on three separate occasions to characterize chlorinated solvents in the groundwater.

PCE was the only chlorinated VOC detected in soils during the investigation. The highest concentration of PCE was found under the Eagle Cleaners building at a concentration of 0.8 milligrams per kilogram (mg/kg) between 10 and 15 feet below grade. The only other detection of PCE in soils was a low-level concentration of 0.036 mg/kg, approximately 20 feet to the northeast. Both of these detections of PCE occurred approximately at, or a little above, the level of the water table. Neither of the PCE detects was found at a concentration that exceeds the calculated soil-screening level residual contaminant level (SSL RCL) for direct contact at the site; however, both exceed the calculated SSL RCL for the protection of groundwater.

The groundwater sampling results indicated that PCE was the most commonly detected and laterally extensive chlorinated compound found at the site. It has been detected in multiple wells during every groundwater sampling event; but, in general, the analytical results indicate a decreasing trend over the period of the investigation. The highest PCE concentrations have been detected on, or immediately adjacent to, the Eagle Cleaners property. These have included 65 micrograms per liter (μg/l) and 24 μg/l near the source to 10 μg/l to the northwest. With the exception of the off-site well at Don's Standard (16 μg/l), the PCE concentrations at all other peripheral sampling points in the last two sampling events have been below either the Enforcement Standard or the analytical laboratory's limit of detection. Chlorinated solvents have not been detected in piezometers lower in the aquifer.

This investigation has identified the existence of a PCE plume containing concentrations that are greater than the ES underlying the Eagle Cleaners property and extending downgradient to the northwest beneath Wall Street. Beyond Wall Street, the distribution of PCE is just as likely to be related to minor solvent releases at adjacent service stations as they are to a fragmenting Eagle Cleaners plume, which contains diluting to isolated, low-level detections at the margin. Regardless of the actual source(s) contributing to the observed distribution of PCE, the concentrations downgradient of the Eagle Cleaners source are low and appear to be decreasing.

Environmental Compliance Consultants, Inc. (ECCI), conducted a risk-screening evaluation to identify potential migration and exposure pathways for the chlorinated compounds identified at the site. The exposure pathways evaluated included direct contact with impacted soil, the migration of vapors, impacts to surface waters, and potential groundwater receptors. The concentrations of PCE in soil samples do not exceed the SSL RCLs for ingestion and inhalation. Due to the sandy, native soils, it is not likely that there is preferential vapor migration along the existing underground utilities. Surface water and the municipal water supply are at some risk from this release; but, given the low and erratic concentrations everywhere except at the source, it is unlikely that there will be a significant impact. Therefore, without any apparent receptors for the impacted groundwater, or any direct contact soil exposure concerns, ECCI does not believe that the residual PCE impacts associated with past PCE storage and usage at the Eagle Cleaners facility pose a threat to human health or the environment.

1. INTRODUCTION AND BACKGROUND

Responsible Party Information

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Site Location

The Eagle Cleaners property is located at 320 Wall Street, Eagle River, Wisconsin, in the NW1/4 of the NE1/4 Section 33, Township 40 North, Range 10 East, in Vilas County. Figure 1 shows the site location on the U.S. Geological Survey 1970 (Photorevised 1982) *Eagle River West*, and 1970 (Photoinspected 1981) *Eagle River East* 7.5-minute topographic maps, which can be found in Appendix A. All figures referenced in this report are included in Appendix A.

Site History

This property contained a residential building at the end of the 1890s. The building was razed and the property was vacant until the 1920s, when a building was constructed to house a laundry business (Northern Environmental, 2000). According to the current owner, Larry Favorite, this property has been used for dry cleaning since the 1940s. He purchased the business from his father in 1985. His father purchased the business in 1966. Little is known about specific activities at this property prior to 1966.

Stoddard solvents were used in the dry cleaning operation from 1966 to1985. A tetrachloroethylene (PCE)-based solvent has been used since 1985. From 1985 until 1991, the dry cleaning system had a solvent usage of about 150 gallons per year. A 100-gallon aboveground tank was located within the building for the PCE solvent storage. Filters used with this system were periodically changed and then disposed. The company supplying the solvent and providing filter disposal was Safety Clean.

In 1991, a new PCE-based system was installed, with a 40-gallon-per-year PCE consumption rate. This new system did not require the use of filters. The PCE storage tank was no longer needed and was removed. This system is still in use today. Wausau Chemical Company supplies the solvent for the dry cleaning system and also collects and disposes of the waste residues.

Groundwater impacts by trichloroethylene (TCE) and PCE, also known as perchloroethylene, were discovered during a Site Assessment by Northern Environmental in 2000, and reported to the Wisconsin Department of Natural Resources (DNR) on January 2, 2000.

On April 3, 2001, the property owner received a letter from the DNR ordering a site investigation (SI) and potential cleanup of the site. BRRTS #02-64-269753 was assigned to the case. This site has been classified as a complex site because the compounds discovered, TCE and PCE, are not listed in Tables 1 and 2 of NR 720, Wis. Adm. Code. In the summer of 2001, Larry and Sharon Favorite retained ECCI to conduct the SI to assess the degree and extent of the detected dry cleaning-related compounds.

2. GEOLOGY AND RECEPTORS

Site Geology

The topography in the immediate area of the property is very flat and the soil is sandy. The surficial soils are classified as low-sloping Rubicon sand (RoB), which comprise gently sloping, excessively drained soils (Natzke, et al., 1988). This flat, sandy surface is a glacial outwash plain, consisting of approximately 30 to 90 meters of glacial-derived sediment, deposited on Proterozoic volcaniclastic metasediments associated with the Penokean Orogeny (Attig, 1985). The glacial sediments consist of well sorted, sandy, braided stream sediments of the Nashville Member of the Langlade Lobe of the Copper Falls Formation (Attig, 1985).

Site Hydrogeology and Aquifer Characteristics

The land surface and the water table slope gently to the northwest toward the Eagle River. The glacial drift in the vicinity of the city of Eagle River consists of three sedimentary layers overlying an irregular bedrock surface (Attig, 1985). Both the upper and lower layers consist of sandy, glacial stream sediment with an overall greater sorting than the silty, supraglacial debris flow separating them. According to Attig (1985), the upper layer (the water table aquifer) ranges from 15 to 25 meters thick, the middle layer (an aquitard) is approximately 5 meters thick, and the lower layer (a confined aquifer) is from 15 to 40 meters thick. The upper layer unconfined aquifer is estimated to have a saturated thickness of 12 to 23 meters. The depth to the water table in the study area ranges from approximately 10 to 13 feet below ground surface (bgs). Table 1 (Appendix B) summarizes the groundwater elevation data collected as part of this investigation. All tables referenced in this report are included in Appendix B, unless otherwise noted.

ECCI performed aquifer slug tests at a nearby site, the former Krueger-Oestreich bulk plant (ECCI, 1995), to estimate the hydraulic conductivity at the top of the unconfined aquifer glacial sediments. The Bouwer and Rice (1976) analyses of the slug test data indicated a hydraulic conductivity of 3.97×10^{-3} cm/s. The calculations for this hydraulic conductivity are included as Appendix C.

Receptors

The city of Eagle River is served by three municipal water supply wells. Well #3 is located approximately 4,000 feet to the northwest of the site, on the opposite side of the Eagle River, and has a slight potential to be affected by a limited solvent release at Eagle Cleaners. Wells #1 and #2 are also located about 4,000 feet west of Eagle Cleaners. Given the overall distance, and an apparent limited release, these wells have a very slight potential to be affected by a solvent release at Eagle Cleaners. No known water supply impacts are currently recognized. The locations of the city of Eagle River water supply wells are shown in Figure 2. Municipal well construction documentation is included in Appendix D.

Based upon the site location, and degree and extent of detected soil and groundwater impacts, the solvent release at the site poses no known or perceived threat to:

- State- or federal-listed endangered species.
- Species, habitat, or ecosystems sensitive to the environment.
- Wetlands or other wet areas as defined in NR 103.04, Wis. Adm. Code.
- Outstanding resource waters as defined in NR 102.10 and NR 102.11, Wis. Adm. Code.
- Sites of historical or archaeological significance.

3. SITE INVESTIGATION METHODOLOGY

The SI was based upon the results of our initial scoping, and was designed as a phased approach. The initial scoping consisted of gathering all information available regarding the area aquifers and the distribution of monitoring wells and chlorinated volatile organic compounds (VOCs) found in the soil and groundwater of the unconfined aquifer in the vicinity of downtown Eagle River. Chlorinated solvents have been identified at several locations in this part of the city, and there has always been some question as to whether there is a single source or multiple discrete sources. An environmental records search, performed by ECCI, identified twelve sites with documented gasoline and diesel releases within 1,200 feet of the subject property. In addition to the Eagle Cleaners site, three of the twelve sites also had detections for chlorinated solvents. The sites identified in the records search, including Eagle Cleaners, are shown in Figure 3.

On the assumption that groundwater would likely flow from the southeast to the northwest toward the Eagle River, a significant chlorinated-solvent release at Eagle Cleaners could potentially impact the downgradient properties with documented chlorinated VOC detections. Therefore, the SI focused on an area approximately 500 feet wide, extending approximately 250 feet southeast to approximately 450 feet northwest of the Eagle Cleaners site.

Phase I of the SI consisted of a subsurface investigation utilizing a Geoprobe® and an on-site laboratory to collect and analyze soil and groundwater samples, and to assess the degree and extent of the chlorinated-solvent impacts previously detected at the site. The primary objective of this initial field investigation phase was to characterize the soil and groundwater at, and adjacent to, the site, and allow for the strategic placement of monitoring wells along the axis and perpendicular to the groundwater plume.

In Phase II of the investigation, ECCI installed groundwater monitoring wells along the approximate axis of a chlorinated VOC plume suggested by the Phase I findings. After the wells were installed, two groundwater sampling events were conducted to further evaluate the stability of the plume. Upon completion of the groundwater monitoring, a summary report (this report) was prepared.

Site Investigation Chronology

March 2, 2001	Northern Environmental completed a Preliminary Site Screening report for Eagle Cleaners. The report indicates chlorinated-solvent compounds have been identified above the NR 140, Wis. Adm. Code Enforcement Standard (ES) in groundwater on the property.
April 3, 2001	The DNR issued a responsible party letter to Mr. and Mrs. Larry Favorite.
January 18 , 2002	ECCI was retained by Mr. and Mrs. Larry Favorite to investigate the chlorinated-solvent release on the Eagle Cleaners property.

June 24, 2002 — ECCI submitted a Site Investigation Work Plan for the Eagle Cleaners property to the DNR.

September 12, 2002 — ECCI directed the installation of eleven soil borings, six of which were converted into monitoring wells. Soil and groundwater samples were collected and analyzed for VOCs at an on-site mobile laboratory. Selected split samples were collected and shipped to a fixed lab for VOC analysis. All monitoring wells were surveyed for location and elevation, and groundwater levels were recorded.

December 11, 2002 — ECCI directed the installation of two monitoring wells and two piezometers along the centerline of the groundwater plume. The new wells were surveyed relative to the existing monitoring well network, water levels were recorded, and groundwater samples were collected for VOC analysis from all wells.

August 19, 2003 — ECCI sampled all test wells again to clarify the degree and extent of the groundwater plume.

October 12, 2004 — ECCI submitted the Site Investigation Report (this report). The analytical laboratories used for samples collected during this investigation were Northern Lake Service, Inc., of Crandon, Wisconsin, Matrix Environmental, LLC., of Osseo, Minnesota, and U.S. Filter/Enviroscan of Schofield, Wisconsin. Tabulated analytical data, as well as laboratory reports and chain-of-custody forms for all soil and groundwater samples, are included in this report as Appendices E and F, respectively.

Soil Investigation

The purpose of the soil investigation was to assess the degree and extent of chlorinated compounds in the soil at, and adjacent to, the Eagle Cleaners property. Both the ECCI SI and the Northern Environmental (NE) Site Screening Assessment analytical data were used to evaluate the conditions at the site. The NE Site Screening Assessment field-screening and analytical data are included as Tables 1 and 2 in Appendix G. The NE Geoprobe® sampling locations are shown on Figure 4. The locations of all of the borings and wells completed as part of ECCI's SI are shown in Figure 5.

On December 20, 1999, NE completed Geoprobe® soil borings GP100, GP200, and GP300, to a depth of 16 feet bgs on the Eagle Cleaners property, as part of a preliminary site screening for chlorinated solvents. Due to limited access, another NE boring, HA/SP400, was advanced using a hand auger. This hand-auger boring, located on the west side of the Eagle Cleaners building, was completed to a depth of 12 feet bgs, and was subsequently used for the installation of a driven well point (SP400). SP400 was subsequently renamed NMW-1 for the ECCI-conducted SI. On August 29, 2000, two additional Geoprobe® borings, GP400 and GP500, were completed by NE to the south and east of the subject property. Chlorinated solvents were not detected in any of the soil samples collected by NE for the preliminary site screening.

ECCI managed the construction of a total of 15 soil borings, using Geoprobe® and hollow-stem-auger (HSA) drilling techniques as part of the SI. Eleven Geoprobe® soil borings (GP-1 through GP-11) were completed by ECCI on September 12 and 13, 2002, to a maximum depth of 20 feet bgs as Phase I of the SI. Six of these Geoprobe® soil borings were converted into monitoring wells and renamed as shown in the table below.

Geoprobe® Soil Boring Name	Monitoring Well Name
GP-2	GMW-1
GP-4	GMW-2
GP-5	GMW-3
GP-6	GMW–4
GP-8	GMW-5
GP-10	GMW-6

Four additional soil borings, MW-2, MW-3, PZ-1, and PZ-2, were completed in December 2002. These borings were advanced with a hollow-stem auger along the centerline of the plume, and converted into two water table monitoring wells and two piezometers. The locations of all of the borings and wells are shown on Figure 5.

Boring GP-1 was constructed at a 45° angle, on the east side of the building, near the main entry into Eagle Cleaners, in order to intersect soils beneath the building. The boring was completed to a depth of approximately 25 feet bgs. All other borings and monitoring wells were drilled vertically to an average depth of 20 feet bgs in order to intersect the water table. Boring GP-2 (GMW-1) was constructed approximately 20 feet north of GP-1 to test the soil near the sanitary sewer lateral from the Eagle Cleaners building to the sanitary main located beneath Second Street. Boring GP-3 was drilled to a depth of 15 feet bgs in the vicinity of NE's boring GP-100. Boring GP-4 (GMW-2) was drilled approximately 250 feet southwest of Eagle Cleaners in a hydrologically upgradient position. Boring GP-5 (GMW-3) was drilled approximately 100 feet south of GP-3, also in a hydrologically upgradient position. The remainder of the borings were distributed in side- and downgradient locations to assess the impact of the documented release at the site, and to assess one hypothesis that the chlorinated solvents identified at the Don's Standard and Eagle River Service sites may be related to the release at Eagle Cleaners.

Three soil samples were collected at 5-foot intervals between 5 and 20 feet bgs, and were analyzed on site by the mobile laboratory. Two soil samples were collected from GP-1, at 5 to 10 feet bgs and 12 feet bgs, to assess the vadose-zone soils beneath the dry cleaning machine and the dry cleaner solvent storage tank. One sample was collected from GP-2. The sample from GP-2 was selected to evaluate whether chlorinated compounds were migrating along the Eagle Cleaners sewer lateral. Mobile laboratory services were provided by Matrix Environmental, LLC.

Split samples of GP-1 (5 to10 feet bgs) and GP-2 (12 feet bgs) were also submitted to a fixed laboratory for analysis. The samples were submitted under chain-of-custody protocol to U.S. Filter/Enviroscan (Certification #737053130) or Northern Lake Service (Certification #105000330) for analysis of VOCs by U.S. Environmental Protection Agency (EPA) Method SW846 8021.

ECCI collected soil samples by means of a Geoprobe®, a vehicle-mounted, hydraulically driven probing system capable of sampling soil, groundwater, and soil vapor at discrete intervals in the subsurface. Soil samples were collected in 5-foot-long, nickel-plated sampling tubes. Soil samples were retrieved by driving the soil sampler to the desired sampling depth using hollow driving rods, releasing the stop-pin in the sampler to allow the driving point to retract into the sampling tube, driving the sampler into the ground to fill it with soil, and pulling the driving rods and sampler to the ground surface. Samples were recovered in acetate liners, logged and analyzed on site, and select split samples were prepared for shipping and off-site analysis. Driving rods and soil sampling tubes were decontaminated between sampling points using standard wash-and-rinse decontamination procedures. All downhole drilling and sampling equipment was steam-cleaned prior to use on site. No lubricants or solvents were used on downhole drilling or sampling equipment. Sampling rods were washed with a detergent solution and double-rinsed with potable water between sampling intervals and between each boring.

Each soil sample was described in the field by ECCI personnel. Soil samples collected during drilling were containerized for field-screening and possible laboratory analysis. Soil sample collection, handling, and field-screening procedures followed DNR guidance (DNR, 1992). Field-screening was performed using a *Mini Rae*, PGM-76 photoionization detector (PID), outfitted with a 10.6 eV lamp and calibrated daily for direct response to 100 parts per million (ppm) isobutylene.

Soil boring logs were prepared on DNR forms in general conformance with American Society of Testing and Materials (ASTM) Standard Method 2488. The logs include information on soil type (United Soil Classification System), color (Munsell notation), relative moisture content, texture, odor, and PID readings. Soil boring logs are included in Appendix H. Borings not completed as monitoring wells or piezometers were abandoned by backfilling with bentonite immediately following completion. The DNR borehole abandonment forms are also in Appendix H. Only a small volume of soil cuttings was generated from the borings, and it was thin-spread on the pavement adjacent to the well.

The HSA borings were drilled in conformance with standard drilling techniques (ASTM Standard Method 1452). The analytical procedure used to assess soil samples for the presence of chlorinated solvents was VOCs, by EPA Methods 8021/8260.

Groundwater Investigation

The purpose of the groundwater investigation was to evaluate the groundwater flow direction(s) and assess the horizontal and vertical extent of chlorinated solvent impacts in groundwater. Both the ECCI SI, and the NE Site Screening Assessment analytical data were used to evaluate the conditions at the site. The NE Site Screening Assessment analytical data are included as Table 3 in Appendix G.

Ten water table monitoring wells and two piezometers were sampled on- and off-site as part of the SI. Six of the monitoring wells (GMW-1, -2, -3, -4, -5 and -6) were constructed with 1-inch-diameter, schedule 40 PVC riser, and a 10-foot segment of 0.01-inch slotted screen. The 1-inch diameter well depths ranged from approximately 13.5 to 18.5 feet bgs. Two monitoring wells (MW-2 and MW-3) were constructed with 2-inch, schedule 40 PVC with 0.01-inch slotted screen from 9 to 19 feet bgs. The two piezometers (PZ-1 and PZ-2) were constructed with 2-inch, schedule 40 PVC with 0.01-inch slotted screen from 34 to 39 feet and 45 to 50 feet bgs, respectively. All water table monitoring wells were constructed such that the screened zone intersected the water table. In addition, the NE-installed driven well point, NMW-1, and monitoring well MW-1, an off-site leaking underground storage tank investigation well, were sampled as part of the groundwater investigation. The well locations are shown on Figure 5.

Construction and development of the monitoring wells and piezometers were conducted in accordance with Chapter NR 141, Wis. Adm. Code. Groundwater sampling was conducted in accordance with DNR guidance (DNR, 1996). DNR Monitoring Well Construction and Development Forms are included as Appendix I.

Between September 12, 2002, and August 19, 2003, three rounds of groundwater samples were collected from the site's monitoring wells and piezometers. The initial Phase I SI mobile laboratory VOC analytical work was conducted by Matrix LLC. Groundwater samples collected during subsequent sampling events were submitted under chain-of-custody protocol to Northern Lake Service, Inc. (Certification #721026460), and U.S. Filter/Enviroscan (Certification #737053130) for the analysis of VOCs using EPA Method 8021. Monitoring well development and purge water was thin-spread on pavement and evaporated.

To characterize the geochemistry of groundwater at the site, groundwater samples collected during the December 2002 and August 2003 sampling events were field-measured for dissolved oxygen (DO) and laboratory tested for a variety of natural attenuation (NA) indicator parameters. The field measurement of DO and the laboratory analysis of methane, ethane, and ethene were conducted for all monitored wells during at least one sampling event. Additional parameters tested for at MW-1, MW-2, MW-3, PZ-1 and PZ-2 included alkalinity, chloride, nitrate + nitrite, and sulfate. A YSI Model 55 Handheld DO Meter was used to measure DO in each monitoring well.

4. EVALUATION OF APPLICABLE CLEAN-UP CRITERIA

In accordance with NR 720.09 and NR 720.11, Wis. Adm. Code, two separate soil residual contaminant levels (RCLs) have been evaluated for the site: 1) an RCL protective of human health from direct contact with the soil; and 2) an RCL protective of groundwater. The EPA has created the *Soil Screening Guidance* Web page for establishing generic soil-screening levels (SSLs) that are protective of human exposure pathways for various volatile organic compounds. SSLs were calculated for the site using the Wisconsin default values listed in the DNR Guidance, *Determining Residual Contaminant Levels Using the EPA Soil Screening Level Web Site*, Pub-RR-682 (January 2002). SSLs were calculated using the EPA Web site for PCE. The soil saturation limit was also calculated for this compound. The calculated RCLs are included in Table 2, Soil Analytical Results. The documentation for the development of the SSL RCLs, including the presentation of the default values used and soil saturation limit, is included in Appendix J.

Protective standards for groundwater are established in NR 140, Wis. Adm. Code. Preventive Action Limits (PALs) and Enforcement Standards (ESs) have been established for many VOCs. If the concentration of any compound exceeds its PAL, a wide range of actions may be required, ranging from no action to active remediation for restoration of groundwater quality. If the concentration of any compound exceeds the ES, some action must be taken; and this ranges from monitoring to active remediation, depending upon site characteristics. Applicable NR 140, Wis. Adm. Code, PALs and ESs are included on each groundwater analytical results table (Tables 3 through 5).

5. SITE INVESTIGATION RESULTS

Hydrogeology

Based upon the soil borings completed over the site study area, the subsurface geology consists primarily of sandy material with varying amounts of fines and degrees of sorting. A silty fine sand unit appears to generally exist across the study area in the upper 5 to 20 feet. A coarser sand unit underlies the silty fine sand unit to at least the maximum assessed depth of 50 feet bgs. Sandy pockets with varying textural differences exist within the lower sand unit. The depth to the water table over the study area ranges from about 10 to 13 feet bgs. Geologic cross sections A-A′ (Figure 6) and B-B′ (Figure 7) show the subsurface sand units relative to the water table, SI borings and wells, and the Eagle Cleaners property.

Monitoring well groundwater levels were measured at several times during the 2002-2003 SI period. Groundwater elevations were calculated using the top of casing elevation survey results and field measurements. Table 1 (Appendix B) summarizes the field measurements and calculated groundwater elevations at the SI wells. Based upon the calculated groundwater elevations, the groundwater appears to be flowing generally to the northwest toward the Eagle River. Figures 8 and 9 provide an estimate of the approximate groundwater flow direction during the October 2002 and December 2002 measurement events, respectively.

An estimate of the horizontal water table gradient over the study area was calculated using the groundwater elevations at wells GMW-1, -2, -3 and -6. A horizontal gradient estimate ranged from approximately 0.003 to 0.004 foot per foot. Vertical gradients were estimated at well nests MW-2/PZ-1 and MW-3/PZ-2 for the December 2002 and August 2003 sampling events. A downward vertical gradient of approximately 0.03 foot per foot was estimated at both nests in December 2002. Much lower downward vertical gradients in the range of 0.002 (MW-3/PZ-2) to 0.006 (MW-3/PZ-1) were estimated for the August 2003 event.

ECCI performed aquifer slug tests at a nearby site, the former Krueger-Oestreich bulk plant (ECCI, 1995), to estimate the hydraulic conductivity at the top of the unconfined aquifer glacial sediments. The Bouwer and Rice (1976) analyses of the slug test data indicated a hydraulic conductivity of 3.97×10^{-3} cm/s.

Extent of Chlorinated Compounds in Soils

The soil sampling laboratory analytical results for sampling performed by ECCI are summarized in Table 2 (Appendix B). The soil sampling laboratory analytical results for sampling performed by NE are summarized in Table 2 in Appendix G. Soil boring locations are shown in Figures 4 and 5. The soil sampling laboratory reports are included in Appendix E.

PCE was the only chlorinated VOC detected in soils during both the NE Site Screening Assessment and the ECCI SI. The NE Site Screening Assessment did not report any chlorinated VOCs in soils at or above the laboratory detection limits (LODs). PCE was detected during the SI in soils at two Geoprobe®

locations on or adjacent to the Eagle Cleaners property. The highest concentration of PCE was found under the Eagle Cleaners building in angled boring GP-1. A concentration of 0.8 milligram per kilogram (mg/kg) was detected in the 10- to 15-foot sampling interval. The other PCE detection was a low-level concentration of 0.036 mg/kg in GP-2. Both of the PCE detections at GP-1 and GP-2 are likely from, or a little above, the water table.

Neither of the PCE detections occurred at a concentration that exceeds the calculated SSL RCL for direct contact at the site. However, both exceed the calculated SSL RCL for the protection of groundwater. Figure 10 presents an estimate of the area on and adjacent to the Eagle Cleaners property where soil PCE concentrations exceed the calculated SSL RCL for the protection of groundwater.

Extent of Chlorinated Compounds in Groundwater

Groundwater samples were collected from all monitoring wells and piezometers to evaluate the extent of chlorinated VOC impacts, fluctuations of contaminant concentrations, and to assess potential NA trends. Groundwater was sampled at Geoprobe® borings GP-1, -3, -7, -9 and -11 only once during the initial SI phase. All other monitoring wells and piezometers have been sampled two or three times. Groundwater samples from Geoprobe® borings GP-1 through GP-11, NMW-1 and MW-1 were analyzed by a mobile lab in September 2002. The analytical results from the mobile lab analyses are presented in Table 3 (Appendix B). The results of selected September 2002 split samples analyzed by Northern Lake Service, Inc., are presented in Table 4 (Appendix B). The December 2002 and August 2003 analytical results are presented in Table 5 (Appendix B). The groundwater sampling laboratory reports are included in Appendix F. The NE Site Screening Assessment analytical data are included as Table 3 in Appendix G. The NE soil boring locations are shown on Figure 4. The location of all wells and boring locations where groundwater samples were collected as part of the SI are shown in Figure 5.

The groundwater sampling results show that PCE was the most commonly detected and laterally extensive chlorinated compound found in connection with this study. It has been detected in multiple wells during every groundwater sampling event. Other VOCs detected during SI groundwater sampling events are as follows:

- Benzene, ethylbenzene, toluene, and xylene (BETX) – September 2002 only.
- Chloroform (in GMW–4 and PZ-2) – December 2002 only.
- Bromodichloromethane (in PZ-2)

Some of these non-PCE detections have occurred at concentrations above their respective PALs and ESs, but all have had subsequent "no detects" at low-level LODs. The BETX compound detections are presented in Table 4. The chloroform and bromodichloromethane detections are presented in Table 5.

The NE Site Screening Assessment groundwater sampling also found PCE to be the most prevalent VOC detected, ranging in concentration from 6 to 130 micrograms per liter (μg/L). Several low-level

concentrations of TCE, 1,2-dichloroethene (DCE), 1,2-dibromomethane, and chloroform were also detected in the groundwater samples.

A summary of the magnitude and extent of PCE concentrations in groundwater in the study area includes the following:

- The highest PCE concentrations were detected in December 1999 during the NE Site Screening Assessment. PCE was detected in the groundwater on or adjacent to the Eagle Cleaners property at concentrations ranging from 6 to 130 μg/L.

- PCE was detected at five of the twelve locations tested by the mobile lab in September 2002. Split sampling results confirmed three mobile lab ES exceedences and refuted one.

- During the SI, the highest PCE concentrations have been detected on, or immediately adjacent to, the Eagle Cleaners property. These have included 65 (μg/l) at driven well point NMW-1, 24 μg/l at GMW-1, and 10 μg/l at MW-2.

- With the exception of a December 2002 detection of 16 μg/l at MW-1, the PCE concentrations at all other peripheral sampling points in December 2002 and August 2003 have been either below the ES or the LOD.

- Generally, PCE concentrations were lower in August 2003 than in December 2002.

- A low-level PCE concentration above the PAL was detected at upgradient location GMW-3.

- PCE has never been detected at water table sampling points GP-3, GP-11, GMW-2, GMW-4 and GMW-5. In addition, an initial mobile lab detection at GP-9 was not confirmed with a split sample.

- PCE has not been detected at approximately 25 and 35 feet below the water table at piezometers PZ-1 and PZ-2, respectively.

Figures 11, 12 and 13 illustrate the approximate extent of groundwater PCE concentrations that exceed the PAL and ES during the September 2002, December 2002, and August 2003 sampling events, respectively. All of these figures indicate the existence of a PCE plume containing concentrations that are greater than the ES underlying the Eagle Cleaners property and extending downgradient to the northwest beyond the MW-2/PZ-1 well nest. Beyond the MW-3/PZ-2 well nest, the detected PCE concentrations suggest these are just as likely to be related to minor solvent releases at adjacent service stations as they are to isolated, low-level detections at the margin of a fragmenting Eagle Cleaners plume. Regardless of the actual source(s) contributing to the observed distribution of PCE, the concentrations at downgradient margin locations, such as GMW-6 and potentially MW-1, are generally low and had decreased between December 2002 and August 2003 to near PAL levels.

To characterize the geochemistry of groundwater at the site, groundwater samples collected during the December 2002 and August 2003 sampling events were field-measured for DO, and laboratory-tested for a variety of NA indicator parameters. The field measurements for DO and the laboratory results for methane, ethane, ethene, alkalinity, chloride, nitrate + nitrite, and sulfate are presented in Table 5. Collectively, the indicator parameter results do not strongly suggest that reductive dechlorination is occurring in the study area. Although the measured DO drops from upgradient background levels of approximately 5 to 7 mg/L to less than 1 mg/L at NMW-1 (the most impacted site well), other indicator results suggestive of reductive dechlorination were not present. For example, ethane and ethene are products of reductive dechlorination, and their presence typically confirms the degradation pathway. However, these compounds were not detected in any of the SI wells. The methane sampling results were also not supportive of reductive dechlorination since the highest concentration was found in upgradient well GMW-5.

The available sulfate, nitrate, alkalinity, and chloride results were collected only from well locations either within or on the downgradient fringe of the PCE plume. The lack of reliable background values limits the use of the data. Nonetheless, sulfate concentrations of less than 20 mg/L and nitrate concentrations of less than 1 mg/L may be supportive of reductive dechlorination. Sulfate concentrations ranged from 8.5 to 24 mg/L. Nitrate + nitrite concentrations ranged from less than 0.75 to 6.6 mg/L. To be favorable indicators of NA, the chloride and alkalinity concentrations within a plume must be at least double the background values. Chloride concentrations ranged from 4.2 to 260 mg/L and alkalinity concentrations from 33 to 120 mg/L.

The December 1999 presence of low levels of TCE and DCE in several NE Site Screening Assessment groundwater samples suggests the possibility that some very localized reductive dechlorination may have occurred. However, the absence of these breakdown products in SI monitoring wells suggests that the biodegradation of PCE is not currently occurring beyond the footprint of the building.

6. RISK-SCREENING EVALUATION

ECCI conducted a risk-screening evaluation to identify potential migration and exposure pathways for the chlorinated compounds identified at the site. The exposure pathways evaluated included direct contact with impacted soil, the migration of vapors, impacts to surface waters, and potential groundwater receptors.

Direct Contact Pathway

The concentrations of PCE detected in soils were compared to the ingestion and inhalation SSLs calculated using the EPA Web site. The concentrations of PCE in soil samples collected from angle borings GP-1 and GP-2 do not exceed the SSL RCLs for ingestion and inhalation. The highest concentration of PCE was found under the Eagle Cleaners building in angle boring GP-1 at a concentration of 0.8 mg/kg in the 10- to15-foot sampling interval. The other PCE detection was a low-level concentration of 0.036 mg/kg in GP-2. Both of the PCE detections at GP-1 and GP-2 are above, but very near, the water table. The calculated SSL RCLs for ingestion and inhalation are 55 and 33 mg/kg, respectively. The documentation for these calculated values is included in Appendix J.

Vapor Migration and Utility Line Evaluation

Vapor migration may be possible along utility trenches potentially intersecting chlorinated solvent-affected soil, but ECCI believes that this is not occurring. Underground utilities that may intersect the impacted vadose-zone soil include water, the Eagle Cleaners private sanitary lateral, and possibly the storm sewer. The sanitary and water laterals from the site are connected to the utility mains located in Second Street. To evaluate the conditions near on-site utility trenches, ECCI completed soil boring GP-2 (GMW-1) along the sanitary and water lateral between the building and the mains in the street. PCE was detected at a low-level concentration of 0.036 mg/kg in the soil sample collected at 12 feet bgs. This sample was likely collected near the water table. Several factors suggest that preferential vapor migration along the existing underground utilities is not occurring. The sandy soils present below the site will likely allow widespread diffusion of vapors, and the textural contrast between native *in situ* soils and any trench backfill are likely not great. The utility lines likely exist within the upper eight feet of the subsurface. Both of the PCE detections and the water table are at least four feet lower than the utility lines. In addition, even if migration of PCE resulting from the detected 0.036 mg/kg concentration were to occur, it would not represent a significant health risk because this value is well below the calculated SSL RCL for the inhalation of volatiles (33 mg/kg).

Surface Water

The closest surface water is the Eagle River, located approximately 2,000 feet to the northwest. The pathway for site contaminants to the Eagle River is via groundwater discharge. Given the near-PAL PCE concentrations at study area periphery wells, it is not likely that any PCE will discharge to the Eagle River.

Groundwater Receptors

The city of Eagle River is served by three municipal water supply wells. These wells are located at least 4,000 feet from the Eagle Cleaners site. Given the overall distance from the site to the wells, and the near-PAL PCE concentrations detected at the groundwater plume downgradient periphery, it is most unlikely that PCE from the study area would impact the municipal wells. The locations of the city of Eagle River water supply wells are shown in Figure 2.

7. CONCLUSIONS

ECCI has completed SI activities to evaluate the magnitude and extent of a chlorinated-solvent release at Eagle Cleaners in Eagle River, Wisconsin. Results of the investigative activities to date indicate that the extent of the chlorinated compounds in soil and groundwater is adequately defined and that exposure pathways are not present.

Soil borings and monitoring wells were installed, and soil and groundwater samples were collected for the analysis of VOCs. The predominant VOC detected in the soil and groundwater was PCE. A localized area of soil vadose-zone PCE impact exists at, and adjacent to, the Eagle Cleaners property. The detected PCE concentrations are below the SSL RCL calculated for the direct contact pathway and, therefore, do not represent a potential direct contact health risk. The detected PCE concentrations do, however, exceed the SSL RCL for the protection of groundwater.

Groundwater sampling that took place at study area wells between September 2002 and August 2003 suggests the presence of a PCE plume, with ES exceedences, originating at the Eagle Cleaners property. From there, the plume extends downgradient (northwest) for at least 250 feet before attenuating to near-PAL concentration levels. The distribution of PCE concentrations within the study area suggests the possibility that other chlorinated VOC sources may be contributing PCE, which affects the plume periphery. Regardless of the actual source(s) contributing to the observed distribution of PCE, the concentrations at downgradient margin locations are generally low and have decreased between December 2002 and August 2003 to near-PAL levels. Although some localized indications of reductive dechlorination exist, a general absence of PCE breakdown products suggests that this degradation mechanism is not pervasive. It is more likely that dilution of a small source in a sandy aquifer is the primary mechanism for contaminant reduction.

The site and surrounding area are served by a municipal water system with wells at least 4,000 feet from the Eagle Cleaners site. Given the overall distance and the observed PCE concentration distribution in the study area, it is most unlikely that the existing PCE plume will impact the municipal well system. Similarly, it is highly unlikely that the PCE in the groundwater will discharge to the Eagle River, which is located approximately 2,000 feet to the northwest.

Because there are no apparent receptors for the impacted groundwater, and there are no direct contact soil exposure concerns, ECCI does not believe that the residual PCE impacts associated with past PCE storage and usage at the Eagle Cleaners facility pose a threat to human health or the environment. ECCI further recommends that the Eagle Cleaners site be considered for closure under NR 726, Wis. Adm. Code, with a Geographic Information System Registry for the residual groundwater impacts above the NR 140, Wis. Adm. Code ESs and the residual soil impacts above the SSL RCLs for the protection of groundwater.

8. ECCI DISCLAIMER

The results of this study are based upon interpretation of the information available to ECCI. ECCI does not warrant that this report represents an exhaustive study of all possible environmental concerns potentially associated with the chlorinated-solvent release. The items investigated as part of this study do represent the most likely sources of environmental concerns associated with the chlorinated-solvent release and are, consequently, believed to adequately address the "responsible party" needs at this time.

9. PROFESSIONAL DISCLAIMER

I, Jeffrey S. Lynott, hereby certify that I am a professional geologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct, and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

10. REFERENCES

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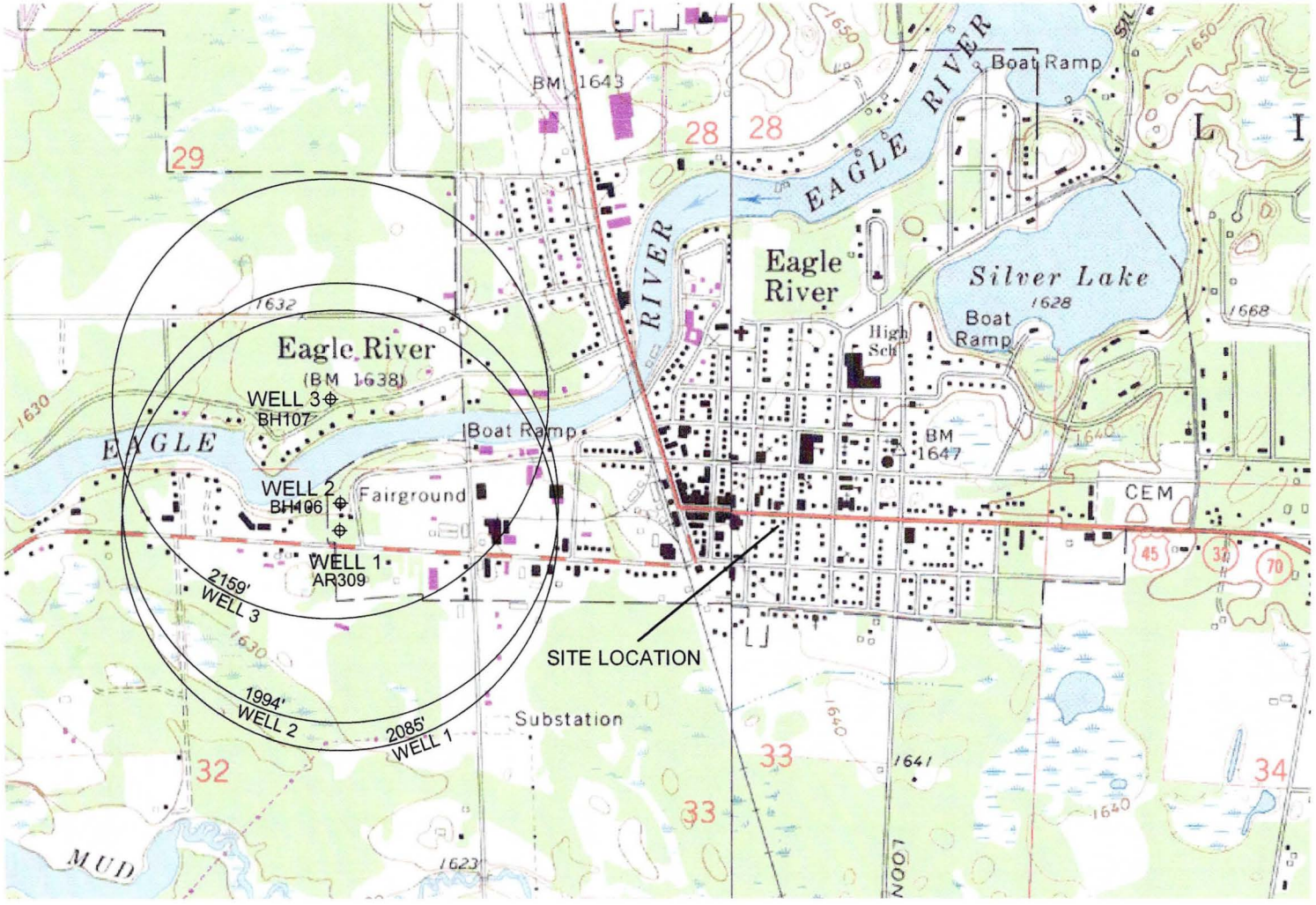


1" = 1500'
USGS 1970 Photorevised 1982 EAGLE RIVER WEST, WI, 7.5' TOPOGRAPHIC QUADRANGLE
and the
USGS 1970 Photoinspected 1981 EAGLE RIVER EAST, WI, 7.5' TOPOGRAPHIC QUADRANGLE

NOTE

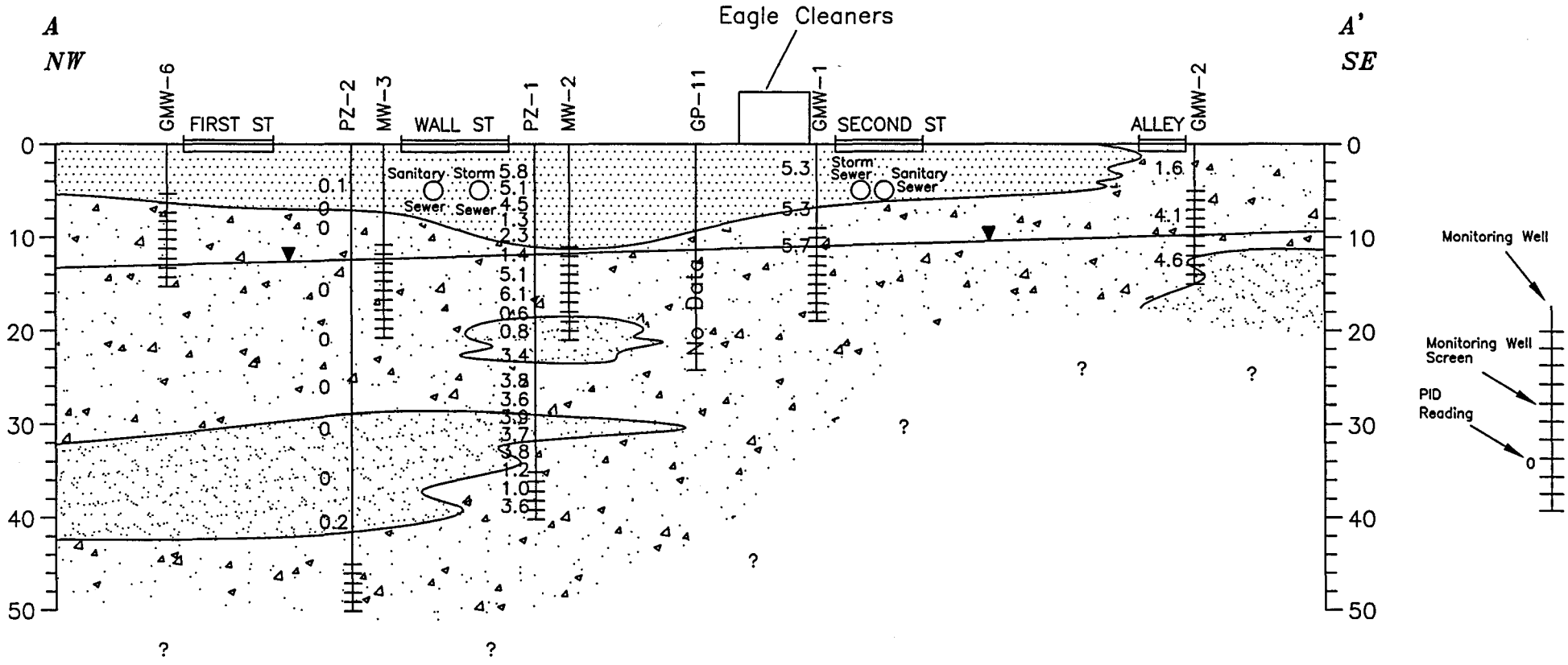
Large circle denotes DNR's calculated groundwater 5-year travel times toward municipal wells.

EAGLE CLEANERS, EAGLE RIVER, WI

Figure 2
Well Location Map

SEPTEMBER 2004	Drawn by JSL

Environmental Compliance Consultants, Inc.

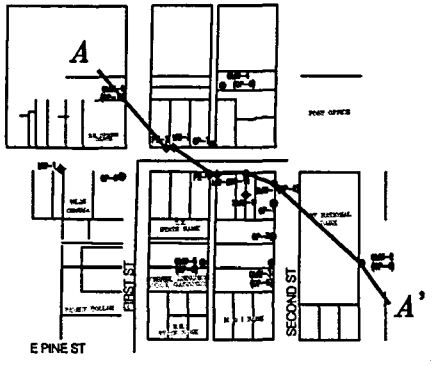


INFORMATION BETWEEN BORINGS IS INTERPOLATED BASED UPON AVAILABLE DATA.
ACTUAL CONDITIONS BETWEEN BORINGS ARE UNKNOWN. EXAGGERATION IN VERTICAL SCALE.

Explanation

- Silty Fine Sand Unit With Silt Stringers
- Poorly Sorted Sand Unit; Little Fines; Sand From vf–m
- Coarser Poorly Sorted Sand Unit; No Fines Visible; Sand From vf–c With Occasional Pebbles

LOCATION OF GEOLOGIC CROSS SECTION



HORIZONTAL SCALE

0 100 200

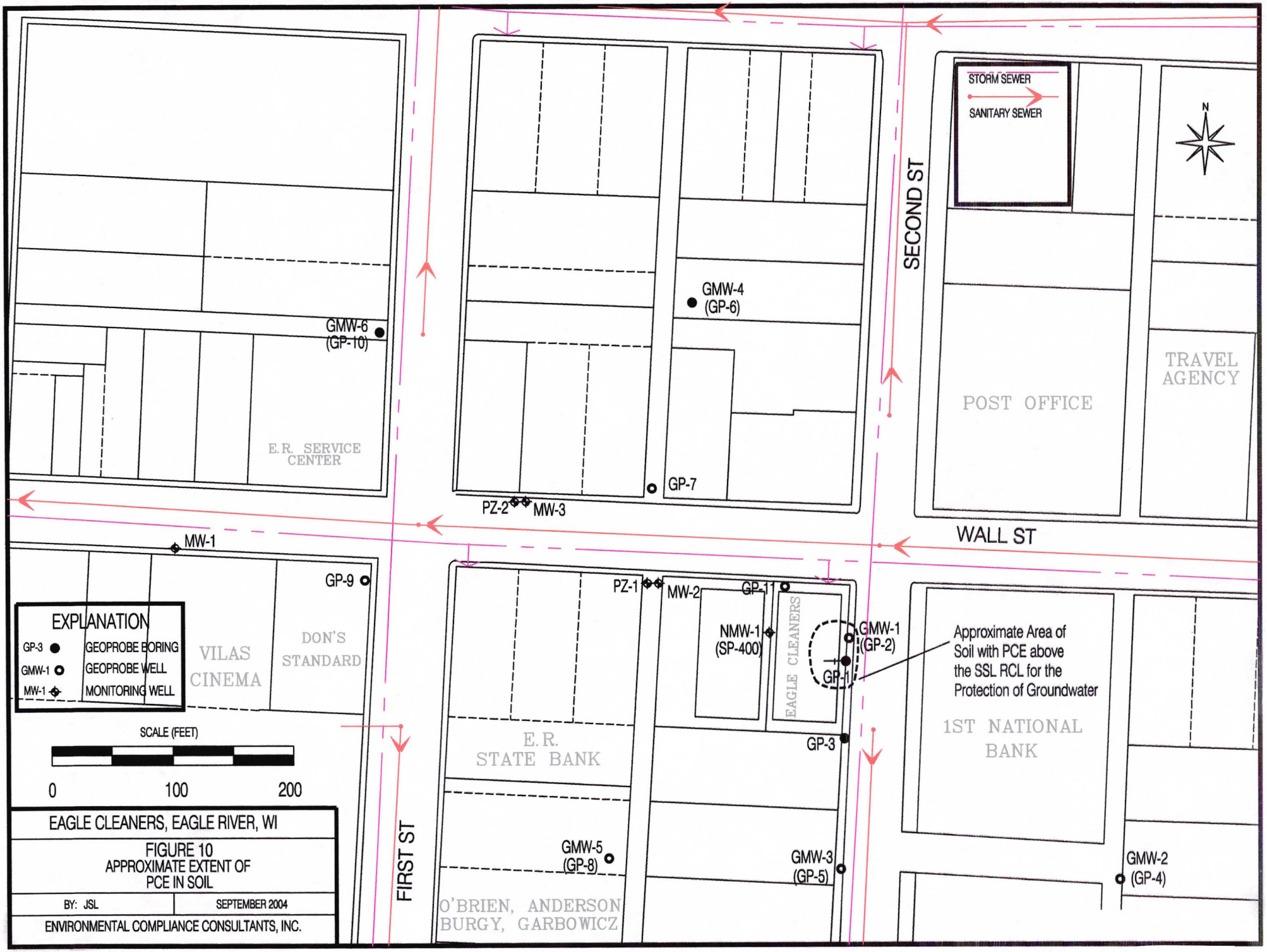
VERTICAL SCALE IN FEET BELOW GROUND SURFACE

Eagle Cleaners

FIGURE 6
GEOLOGIC CROSS SECTION
A–A'

SEPT. 2004 | TRB/BDH

ENVIRONMENTAL COMPLIANCE CONSULTANTS, INC.



EAGLE CLEANERS, EAGLE RIVER, WI

FIGURE 10
APPROXIMATE EXTENT OF
PCE IN SOIL

BY: JSL	SEPTEMBER 2004

ENVIRONMENTAL COMPLIANCE CONSULTANTS, INC.

TABLE 1 – GROUNDWATER ELEVATION DATA
EAGLE CLEANERS

Well	MW-1	GMW-1	GMW-2	GMW-3	GMW-4	GMW-5	GMW-6	NMW-1	MW-2	MW-3	PZ-1	PZ-2
		(GP-2)	(GP-4)	(GP-5)	(GP-6)	(GP-8)	(GP-10)					
TOC Elevation	1638.70	1639.96	1638.64	1638.63	1639.87	1639.79	1639.68	NA	1636.94	1637.15	1636.97	1637.19
Depth to Water (from TOC)												
10/1/2002	12.15	12.04	9.67	9.85	12.82	11.35	13.17	NA	NA	NA	NA	NA
12/11/2002	13.10	12.14	9.79	9.96	12.92	11.56	13.28	16.06	12.21	12.29	12.99	13.30
8/19/2003	12.50	12.40	10.07	10.20	12.20	11.87	13.56	16.24	13.21	13.43	13.38	13.52
Groundwater Elevation												
10/1/2002	1626.55	1627.92	1628.97	1628.78	1627.05	1628.44	1626.51	NA	NA	NA	NA	NA
12/11/2002	1625.60	1627.82	1628.85	1628.67	1626.95	1628.23	1626.40	NA	1624.73	1624.86	1623.98	1623.89
8/19/2003	1626.20	1627.56	1628.57	1628.43	1627.67	1627.92	1626.12	NA	1623.73	1623.72	1623.59	1623.67

TABLE 2
SOIL ANALYTICAL RESULTS FOR EAGLE CLEANERS

Boring	Depth (feet)	Benzene (mg/Kg)	Ethyl-benzene (mg/Kg)	Toluene (mg/Kg)	1,2,4-TMB (mg/Kg)	1,3,5-TMB (mg/Kg)	Total Xylenes (mg/Kg)	Trichloro-ethylene (TCE) (mg/Kg)	Tetrachloro-ethylene (PCE) (mg/Kg)
NR 720 RCL--> DC									
NR 720 RCL--> GW		0.0055	2.9	1.5			4.1		
SSL RCL - DC*									33
SSL RCL - GW*									0.0041
Soil Samples Collected 9/12/02 - Analyzed by Mobile Lab									
GP-1	5-10	<0.10	<0.20	<0.20	<0.10	<0.10	<0.40	<0.10	<0.20
GP-1	10-15	<0.10	<0.20	<0.20	<0.10	<0.10	<0.40	<0.10	**0.8**
GP-1	15-20	<0.10	<0.20	<0.20	<0.10	<0.10	<0.40	<0.10	<0.20
GP-2 (GMW-1)	12	<0.10	<0.20	<0.20	<0.10	<0.10	<0.40	<0.10	<0.20
Soil Samples Collected 9/12/02 - Analyzed by Fixed Lab									
GP-1	5-10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
GP-2 (GMW-1)	12	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	**0.0361**
GP-5 (GMW-3)	13.0	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
GP-8 (GMW-5)	12	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
GP-9	4	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

* Calculated using the EPA Soil Screening Level (SSL) Website (http://risk.lsd.ornl.gov/epa/ssll.htm) with Wisconsin default parameters. Direct contact value based upon an industrial land use scenario.

Bold indicates exceedence of a Residual Contaminant Level (RCL) for protection of GW (groundwater).

Samples were analyzed for a full set of VOCs.

TABLE 3 – GEOPROBE RESULTS – MOBILE LAB

GROUNDWATER LABORATORY RESULTS
EAGLE CLEANERS, EAGLE RIVER, WI

125	Parameter concentration exceeds the NR 140 ES
1	Parameter concentration exceeds the NR 140 PAL
<2.5	Parameter analyzed, but not detected, MDL > PAL or ES
	Parameter not analyzed

WELL IDENTIFICATION	GP-1	GP-2	GP-3	GP-4	GP-5	GP-6	GP-7	GP-8	NR 140 PAL	NR 140 ES
Date Sampled	9/12/02	9/12/02	9/12/02	9/12/02	9/12/02	9/12/02	9/12/02	9/12/02		
Analyte										
VOCs* (µg/L)										
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	0.5	5
Toluene	<2	<2	<2	<2	<2	<2	<2	<2	200	1000
Ethylbenzene	<2	<2	<2	<2	<2	<2	<2	<2	140	700
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1		
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1		
Total Trimethylbenzenes	<2	<2	<2	<2	<2	<2	<2	<2	96	480
Methyl-tert-Butyl-ether	<3	<3	<3	<3	<3	<3	<3	<3	12	60
m&p Xylenes	<2	<2	<2	<2	<2	<2	<2	<2		
o- Xylene	<2	<2	<2	<2	<2	<2	<2	<2		
Total Xylenes	<4	<4	<4	<4	<4	<4	<4	<4	1000	10000
Bromodichloromethane	<2	<2	<2	<2	<2	<2	<2	<2	0.06	0.6
Carbon Tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	0.5	5
Dibromochloropropane (DBCP)	<2	<2	<2	<2	<2	<2	<2	<2	0.02	0.2
1,2-Dibromoethane (EDB)	<5	<5	<5	<5	<5	<5	<5	<5	0.005	0.05
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	<5	0.5	5
Tetrachloroethylene (PCE)	**5**	<2	<2	<2	<2	<2	<2	<2	0.5	5
Trichloroethylene (TCE)	<1	<1	<1	<1	<1	<1	<1	<1	0.5	5
1,1,2,2-Tetrachloroethane	<10	<10	<10	<10	<10	<10	<10	<10	0.02	0.2
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	0.02	0.2
Naphthalene	<5	<5	<5	<5	<5	<5	<5	<5	8	40

MDL: Laboratory Method Detection Limit
NR 140 ES: Wisconsin Administrative Code NR 140 Enforcement Standard
NR 140 PAL: Wisconsin Administrative Code NR 140 Preventive Action Limit
* Samples were analyzed for a full set of VOCs. Those VOC compounds that were not detected by the lab are not tabulated here; however, the VOC detection limit of the method used by the lab may be above the PAL or ES. Please refer to the lab report for the complete list.

TABLE 3 – GEOPROBE RESULTS – MOBILE LAB

GROUNDWATER LABORATORY RESULTS
EAGLE CLEANERS, EAGLE RIVER, WI

125	Parameter concentration exceeds the NR 140 ES
1	Parameter concentration exceeds the NR 140 PAL
<2.5	Parameter analyzed, but not detected, MDL > PAL or ES
	Parameter not analyzed

WELL IDENTIFICATION	GP-9	MW-1	GP-10	DUP	GP-11	NMW-1	TRIP	NR 140 PAL	NR 140 ES
Date Sampled	9/12/02	9/12/02	9/12/02	9/12/02	9/12/02	9/12/02	9/12/02		
Analyte									
VOCs* (µg/L)									
Benzene	<1	<1	<1	<1	<1	<1	<1	0.5	5
Toluene	<2	<2	<2	<2	<2	<2	<2	200	1000
Ethylbenzene	<2	<2	<2	<2	<2	<2	<2	140	700
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1		
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1		
Total Trimethylbenzenes	<2	<2	<2	<2	<2	<2	<2	96	480
Methyl-tert-Butyl-ether	<3	<3	<3	<3	<3	<3	<3	12	60
m&p Xylenes	<2	<2	<2	<2	<2	<2	<2		
o- Xylene	<2	<2	<2	<2	<2	<2	<2		
Total Xylenes	<4	<4	<4	<4	<4	<4	<4	1000	10000
Bromodichloromethane	<2	<2	<2	<2	<2	<2	<2	0.06	0.6
Carbon Tetrachloride	<1	<1	<1	<1	<1	<1	<1	0.5	5
Dibromochloropropane (DBCP)	<2	<2	<2	<2	<2	<2	<2	0.02	0.2
1,2-Dibromoethane (EDB)	<5	<5	<5	<5	<5	<5	<5	0.005	0.05
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	0.5	5
Tetrachloroethylene (PCE)	**5**	*1*	**5**	**5**	<2	**41**	<2	0.5	5
Trichloroethylene (TCE)	<1	<1	<1	<1	<1	<1	<1	0.5	5
1,1,2,2-Tetrachloroethane	<10	<10	<10	<10	<10	<10	<10	0.02	0.2
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	0.02	0.2
Naphthalene	<5	<5	<5	<5	<5	<5	<5	8	40

MDL: Laboratory Method Detection Limit
NR 140 ES: Wisconsin Administrative Code NR 140 Enforcement Standard
NR 140 PAL: Wisconsin Administrative Code NR 140 Preventive Action Limit
DUP: Duplicate Sample

* Samples were analyzed for a full set of VOCs. Those VOC compounds that were not detected by the lab are not tabulated here; however, the VOC detection limit of the method used by the lab may be above the PAL or ES. Please refer to the lab report for the complete list.

TABLE 4 – GEOPROBE RESULTS – FIXED LAB

GROUNDWATER LABORATORY RESULTS
EAGLE CLEANERS, EAGLE RIVER, WI

125	Parameter concentration exceeds the NR 140 ES
4.86	Parameter concentration exceeds the NR 140 PAL
<2.5	Parameter analyzed, but not detected, MDL > PAL or ES
	Parameter not analyzed

WELL IDENTIFICATION	GP-1	GP-3	GP-7	GP-9	GP-10	GP-11	NMW-1	TRIP	NR 140 PAL	NR 140 ES
Date Sampled	9/12/02	9/12/02	9/12/02	9/12/02	9/12/02	9/12/02	9/12/02	9/12/02		
Analyte										
VOCs* (µg/L)										
Benzene	0.356	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	0.5	5
Toluene	0.827	0.361	0.711	0.757	0.899	0.61	<0.3	<0.3	200	1000
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	0.748	<0.5	<0.5	<0.5	140	700
1,2,4-Trimethylbenzene	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4		
1,3,5-Trimethylbenzene	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31		
Total Trimethylbenzenes	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	96	480
Methyl-tert-Butyl-ether	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	12	60
m&p Xylenes	<0.62	<0.62	<0.62	<0.62	1.60	<0.62	<0.62	<0.62		
o- Xylene	0.31	0.3	0.3	0.307	0.589	<0.3	0.3	0.3		
Total Xylenes	<0.93	<0.92	<0.92	<0.927	2.189	<0.92	<0.92	<0.92	1000	10000
Bromodichloromethane	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	0.06	0.6
Carbon Tetrachloride	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	0.5	5
Dibromochloropropane (DBCP)	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	0.02	0.2
1,2-Dibromoethane (EDB)	<1.10	<1.10	<1.10	<1.10	<1.10	<1.10	<1.10	<1.10	0.005	0.05
Methylene Chloride	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	0.5	5
Tetrachloroethylene (PCE)	**9.77**	<0.32	*4.86*	<0.32	**6.36**	<0.32	**46.8**	<0.32	0.5	5
Trichloroethylene (TCE)	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	0.5	5
1,1,2,2-Tetrachloroethane	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	0.02	0.2
Vinyl Chloride	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.02	0.2
Naphthalene	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	8	40

MDL: Laboratory Method Detection Limit
NR 140 ES: Wisconsin Administrative Code NR 140 Enforcement Standard
NR 140 PAL: Wisconsin Administrative Code NR 140 Preventive Action Limit
* Samples were analyzed for a full set of VOCs. Those VOC compounds that were not detected by the lab are not tabulated here; however, the VOC detection limit of the method used by the lab may be above the PAL or ES. Please refer to the lab report for the complete list.

TABLE 5 (PAGE 1 OF 8)

125	Parameter concentration exceeds NR 140 ES
0.74	Parameter concentration exceeds NR 140 PAL
<2.5	Parameter analyzed, but not detected, MDL > PAL or ES
	Parameter not analyzed

GROUNDWATER LABORATORY RESULTS
EAGLE CLEANERS

WELL IDENTIFICATION	GMW-1	GMW-1	GMW-2	GMW-2	GMW-3	GMW-3	NR 140 PAL	NR 140 ES
SAMPLE DATE	12/11/02	8/19/03	12/11/02	8/19/03	12/11/02	8/19/03		
Analyte								
Methane (µg/L)	<10	<0.50	<10	<0.50	<10	<0.50		
Ethane (µg/L)	<10		<10		<10			
Ethene (µg/L)	<10	<0.50	<10	<0.50	<10	<0.50		
Dissolved Oxygen (mg/L)	5.55		6.68		4.06			
Groundwater Elevations	1627.82	1627.56	1628.85	1628.57	1628.67	1628.43		
VOCs (µg/L)								
Benzene	<0.29	<0.23	<0.29	<0.23	<0.29	<0.23	0.5	5
Toluene	<0.36	<0.23	<0.36	<0.23	<0.36	<0.23	200	1000
Ethylbenzene	<0.28	<0.21	<0.28	<0.21	<0.28	<0.21	140	700
1,2,4-Trimethylbenzene	<0.23	<0.24	<0.23	<0.24	<0.23	<0.24		
1,3,5-Trimethylbenzene	<0.30	<0.27	<0.30	<0.27	<0.30	<0.27		
Total Trimethylbenzenes	<0.53	<0.51	<0.53	<0.51	<0.53	<0.51	96	480
Methyl tert-Butyl ether	<0.33	<0.11	<0.33	<0.11	<0.33	<0.11	12	60
m- & p-Xylenes	<0.49	<0.37	<0.49	<0.37	<0.49	<0.37		
o-Xylene	<0.26	<0.18	<0.26	<0.18	<0.26	<0.18		
Total Xylenes	<0.75	<0.55	<0.75	<0.55	<0.75	<0.55	1000	10000
1,1,1,2-Tetrachloroethane	<0.30	<0.19	<0.30	<0.19	<0.30	<0.19	7	70
1,1,1-Trichloroethane	<0.31	<0.23	<0.31	<0.23	<0.31	<0.23	40	200
1,1,2,2-Tetrachloroethane	<0.31	<0.21	<0.31	<0.21	<0.31	<0.21	0.02	0.2
1,1,2-Trichloroethane	<0.40	<0.14	<0.40	<0.14	<0.40	<0.14	0.5	5
1,1-Dichloroethane	<0.33	<0.22	<0.33	<0.22	<0.33	<0.22	85	850
1,1-Dichloroethene	<0.29	<0.26	<0.29	<0.26	<0.29	<0.26		
1,1-Dichloropropene	<0.29	<0.17	<0.29	<0.17	<0.29	<0.17		
1,2,3-Trichlorobenzene	<0.26	<0.29	<0.26	<0.29	<0.26	<0.29		
1,2,4-Trichlorobenzene	<0.36	<0.24	<0.36	<0.24	<0.36	<0.24	14	70
1,2-Dibromo-3-chloropropane (DBCP)	<0.31	<0.21	<0.31	<0.21	<0.31	<0.21	0.02	0.2
1,2-Dibromoethane (EDB)	<0.26	<0.20	<0.26	<0.20	<0.26	<0.20	0.005	0.05
Dibromomethane	<0.31	<0.20	<0.31	<0.20	<0.31	<0.20		
1,2-Dichlorobenzene	<0.29	<0.17	<0.29	<0.17	<0.29	<0.17	60	600
1,2-Dichloroethane	<0.34	<0.20	<0.34	<0.20	<0.34	<0.20	0.5	5
1,2-Dichloropropane	<0.33	<0.19	<0.33	<0.19	<0.33	<0.19	0.5	5
1,3-Dichlorobenzene	<0.29	<0.20	<0.29	<0.20	<0.29	<0.20	125	1250
1,3-Dichloropropane	<0.33	<0.18	<0.33	<0.18	<0.33	<0.18		
1,4-Dichlorobenzene	<0.26	<0.21	<0.26	<0.21	<0.26	<0.21	15	75
2,2-Dichloropropane	<0.28	<0.25	<0.28	<0.25	<0.28	<0.25		
2-Chlorotoluene	<0.29	<0.22	<0.29	<0.22	<0.29	<0.22		
4-Chlorotoluene	<0.22	<0.16	<0.22	<0.16	<0.22	<0.16		
Bromobenzene	<0.15	<0.19	<0.15	<0.19	<0.15	<0.19		
Bromochloromethane	<0.36	<0.21	<0.36	<0.21	<0.36	<0.21		
Bromodichloromethane	<0.32	<0.19	<0.32	<0.19	<0.32	<0.19	0.06	0.6

TABLE 5 (PAGE 2 OF 8)

125	Parameter concentration exceeds NR 140 ES
0.74	Parameter concentration exceeds NR 140 PAL
<2.5	Parameter analyzed, but not detected, MDL > PAL or ES
	Parameter not analyzed

GROUNDWATER LABORATORY RESULTS
EAGLE CLEANERS

WELL IDENTIFICATION	GMW-1	GMW-1	GMW-2	GMW-2	GMW-3	GMW-3	NR 140 PAL	NR 140 ES
SAMPLE DATE	12/11/02	8/19/03	12/11/02	8/19/03	12/11/02	8/19/03		
VOCs (µg/L)								
Bromoform	<0.29	<0.18	<0.29	<0.18	<0.29	<0.18	0.44	4.4
Bromomethane	<0.35	<0.24	<0.35	<0.24	<0.35	<0.24	1	10
Carbon tetrachloride	<0.27	<0.18	<0.27	<0.18	<0.27	<0.18	0.5	5
Chlorobenzene	<0.26	<0.18	<0.26	<0.18	<0.26	<0.18		
Chloroethane	<1.4	<1.0	<1.4	<1.0	<1.4	<1.0	80	400
Chloroform	<0.30	<0.21	<0.30	<0.21	<0.30	<0.21	0.6	6
Chloromethane	<0.29	<0.18	<0.29	<0.18	<0.29	<0.18	0.3	3
cis-1,2-Dichloroethene	<0.28	<0.22	<0.28	<0.22	<0.28	<0.22		
cis-1,3-Dichloropropene	<0.32	<0.23	<0.32	<0.23	<0.32	<0.23	0.02	0.2
trans-1,3-Dichloropropene	<0.34	<0.23	<0.34	<0.23	<0.34	<0.23	0.02	0.2
Isopropyl ether	<0.35	<0.19	<0.35	<0.19	<0.35	<0.19		
Dibromochloromethane	<0.26	<0.17	<0.26	<0.17	<0.26	<0.17	6	60
Dichlorodifluoromethane	<0.34	<0.25	<0.34	<0.25	<0.34	<0.25	200	1000
Hexachlorobutadiene	<0.37	<0.19	<0.37	<0.19	<0.37	<0.19		
Isopropylbenzene	<0.28	<0.18	<0.28	<0.18	<0.28	<0.18		
Methylene chloride	<0.56	<0.24	<0.56	<0.24	<0.56	<0.24	0.5	5
n-Butylbenzene	<0.28	<0.23	<0.28	<0.23	<0.28	<0.23		
n-Propylbenzene	<0.25	<0.27	<0.25	<0.27	<0.25	<0.27		
Naphthalene	<0.29	<0.39	<0.29	<0.39	<0.29	<0.39	8	40
p-Isopropyltoluene	<0.31	<0.23	<0.31	<0.23	<0.31	<0.23		
sec-Butylbenzene	<0.32	<0.25	<0.32	<0.25	<0.32	<0.25		
tert-Butylbenzene	<0.17	<0.25	<0.17	<0.25	<0.17	<0.25		
Styrene	<0.25	<0.17	<0.25	<0.17	<0.25	<0.17	10	100
Tetrachloroethene (PCE)	**24**	**11**	<0.25	<0.18	<0.25	*0.74*	0.5	5
trans-1,2-Dichloroethene	<0.29	<0.23	<0.29	<0.23	<0.29	<0.23		
Trichloroeth(yl)ene (TCE)	<0.54>	<0.22	<0.29	<0.22	<0.29	<0.22		
Trichlorofluoromethane	<0.28	<0.23	<0.28	<0.23	<0.28	<0.23		
1,2,3-Trichloropropane	<0.34	<0.21	<0.34	<0.21	<0.34	<0.21	12	60
Vinyl chloride	<0.11	<0.18	<0.11	<0.18	<0.11	<0.18	0.02	0.2

MDL: Laboratory Method Detection Limit
NR 140 ES: Wisconsin Administrative Code NR 140 Enforcement Standard
NR 140 PAL: Wisconsin Administrative Code NR 140 Preventive Action Limit
< > Values represent results greater than the Limit of Detection, but less than the Limit of Quantitation and are within a region of "Less-Certain Quantitation."

TABLE 5 (PAGE 3 OF 8)

GROUNDWATER LABORATORY RESULTS
EAGLE CLEANERS

125	Parameter concentration exceeds NR 140 ES
0.74	Parameter concentration exceeds NR 140 PAL
<2.5	Parameter analyzed, but not detected, MDL > PAL or ES
	Parameter not analyzed

WELL IDENTIFICATION	GMW-4	GMW-4	GMW-5	GMW-5	GMW-6	GMW-6	NR 140 PAL	NR 140 ES
SAMPLE DATE	12/11/02	8/19/03	12/11/02	8/19/03	12/11/02	8/19/03		
Analyte								
Methane (µg/L)	<10	<0.50	<10	2.0	<10	<0.50		
Ethane (µg/L)	<10		<10		<10			
Ethene (µg/L)	<10	<0.50	<10	<0.50	<10	<0.50		
Dissolved Oxygen (mg/L)	7.26		5.17		6.66			
Groundwater Elevations	1626.95	1627.67	1628.23	1627.92	1626.40	1626.12		
VOCs (µg/L)								
Benzene	<0.29	<0.23	<0.29	<0.23	<0.29	<0.23	0.5	5
Toluene	<0.36	<0.23	<0.36	<0.23	<0.36	<0.23	200	1000
Ethylbenzene	<0.28	<0.21	<0.28	<0.21	<0.28	<0.21	140	700
1,2,4-Trimethylbenzene	<0.23	<0.24	<0.23	<0.24	<0.23	<0.24		
1,3,5-Trimethylbenzene	<0.30	<0.27	<0.30	<0.27	<0.30	<0.27		
Total Trimethylbenzenes	<0.53	<0.51	<0.53	<0.51	<0.53	<0.51	96	480
Methyl tert-Butyl ether	<0.33	<0.11	<0.33	<0.11	<0.33	<0.11	12	60
m- & p-Xylenes	<0.49	<0.37	<0.49	<0.37	<0.49	<0.37		
o-Xylene	<0.26	<0.18	<0.26	<0.18	<0.26	<0.18		
Total Xylenes	<0.75	<0.55	<0.75	<0.55	<0.75	<0.55	1000	10000
1,1,1,2-Tetrachloroethane	<0.30	<0.19	<0.30	<0.19	<0.30	<0.19	7	70
1,1,1-Trichloroethane	<0.31	<0.23	<0.31	<0.23	<0.31	<0.23	40	200
1,1,2,2-Tetrachloroethane	<0.31	<0.21	<0.31	<0.21	<0.31	<0.21	0.02	0.2
1,1,2-Trichloroethane	<0.40	<0.14	<0.40	<0.14	<0.40	<0.14	0.5	5
1,1-Dichloroethane	<0.33	<0.22	<0.33	<0.22	<0.33	<0.22	85	850
1,1-Dichloroethene	<0.29	<0.26	<0.29	<0.26	<0.29	<0.26		
1,1-Dichloropropene	<0.29	<0.17	<0.29	<0.17	<0.29	<0.17		
1,2,3-Trichlorobenzene	<0.26	<0.29	<0.26	<0.29	<0.26	<0.29		
1,2,4-Trichlorobenzene	<0.36	<0.24	<0.36	<0.24	<0.36	<0.24	14	70
1,2-Dibromo-3-chloropropane (DBCP)	<0.31	<0.21	<0.31	<0.21	<0.31	<0.21	0.02	0.2
1,2-Dibromoethane (EDB)	<0.26	<0.20	<0.26	<0.20	<0.26	<0.20	0.005	0.05
Dibromomethane	<0.31	<0.20	<0.31	<0.20	<0.31	<0.20		
1,2-Dichlorobenzene	<0.29	<0.17	<0.29	<0.17	<0.29	<0.17	60	600
1,2-Dichloroethane	<0.34	<0.20	<0.34	<0.20	<0.34	<0.20	0.5	5
1,2-Dichloropropane	<0.33	<0.19	<0.33	<0.19	<0.33	<0.19	0.5	5
1,3-Dichlorobenzene	<0.29	<0.20	<0.29	<0.20	<0.29	<0.20	125	1250
1,3-Dichloropropane	<0.33	<0.18	<0.33	<0.18	<0.33	<0.18		
1,4-Dichlorobenzene	<0.26	<0.21	<0.26	<0.21	<0.26	<0.21	15	75
2,2-Dichloropropane	<0.28	<0.25	<0.28	<0.25	<0.28	<0.25		
2-Chlorotoluene	<0.29	<0.22	<0.29	<0.22	<0.29	<0.22		
4-Chlorotoluene	<0.22	<0.16	<0.22	<0.16	<0.22	<0.16		
Bromobenzene	<0.15	<0.19	<0.15	<0.19	<0.15	<0.19		
Bromochloromethane	<0.36	<0.21	<0.36	<0.21	<0.36	<0.21		
Bromodichloromethane	<0.32	<0.19	<0.32	<0.19	<0.32	<0.19	0.06	0.6

TABLE 5 (PAGE 4 OF 8)

GROUNDWATER LABORATORY RESULTS
EAGLE CLEANERS

125	Parameter concentration exceeds NR 140 ES
0.74	Parameter concentration exceeds NR 140 PAL
<2.5	Parameter analyzed, but not detected, MDL > PAL or ES
	Parameter not analyzed

WELL IDENTIFICATION	GMW-4	GMW-4	GMW-5	GMW-5	GMW-6	GMW-6	NR 140 PAL	NR 140 ES
SAMPLE DATE	12/11/02	8/19/03	12/11/02	8/19/03	12/11/02	8/19/03		
VOCs (µg/L)								
Bromoform	<0.29	<0.18	<0.29	<0.18	<0.29	<0.18	0.44	4.4
Bromomethane	<0.35	<0.24	<0.35	<0.24	<0.35	<0.24	1	10
Carbon tetrachloride	<0.27	<0.18	<0.27	<0.18	<0.27	<0.18	0.5	5
Chlorobenzene	<0.26	<0.18	<0.26	<0.18	<0.26	<0.18		
Chloroethane	<1.4	<1.0	<1.4	<1.0	<1.4	<1.0	80	400
Chloroform	*1.5*	<0.21	<0.30	<0.21	<0.30	<0.21	0.6	6
Chloromethane	<0.29	<0.18	<0.29	<0.18	<0.29	<0.18	0.3	3
cis-1,2-Dichloroethene	<0.28	<0.22	<0.28	<0.22	<0.28	<0.22		
cis-1,3-Dichloropropene	<0.32	<0.23	<0.32	<0.23	<0.32	<0.23	0.02	0.2
trans-1,3-Dichloropropene	<0.34	<0.23	<0.34	<0.23	<0.34	<0.23	0.02	0.2
Isopropyl ether	<0.35	<0.19	<0.35	<0.19	<0.35	<0.19		
Dibromochloromethane	<0.26	<0.17	<0.26	<0.17	<0.26	<0.17	6	60
Dichlorodifluoromethane	<0.34	<0.25	<0.34	<0.25	<0.34	<0.25	200	1000
Hexachlorobutadiene	<0.37	<0.19	<0.37	<0.19	<0.37	<0.19		
Isopropylbenzene	<0.28	<0.18	<0.28	<0.18	<0.28	<0.18		
Methylene chloride	<0.56	<0.24	<0.56	<0.24	<0.56	<0.24	0.5	5
n-Butylbenzene	<0.28	<0.23	<0.28	<0.23	<0.28	<0.23		
n-Propylbenzene	<0.25	<0.27	<0.25	<0.27	<0.25	<0.27		
Naphthalene	<0.29	<0.39	<0.29	<0.39	<0.29	<0.39	8	40
p-Isopropyltoluene	<0.31	<0.23	<0.31	<0.23	<0.31	<0.23		
sec-Butylbenzene	<0.32	<0.25	<0.32	<0.25	<0.32	<0.25		
tert-Butylbenzene	<0.17	<0.25	<0.17	<0.25	<0.17	<0.25		
Styrene	<0.25	<0.17	<0.25	<0.17	<0.25	<0.17	10	100
Tetrachloroethene (PCE)	<0.25	<0.18	<0.25	<0.18	*2.8*	*1.3*	0.5	5
trans-1,2-Dichloroethene	<0.29	<0.23	<0.29	<0.23	<0.29	<0.23		
Trichloroeth(yl)ene (TCE)	<0.29	<0.22	<0.29	<0.22	<0.29	<0.22		
Trichlorofluoromethane	<0.28	<0.23	<0.28	<0.23	<0.28	<0.23		
1,2,3-Trichloropropane	<0.34	<0.21	<0.34	<0.21	<0.34	<0.21	12	60
Vinyl chloride	<0.11	<0.18	<0.11	<0.18	<0.11	<0.18	0.02	0.2

MDL: Laboratory Method Detection Limit
NR 140 ES: Wisconsin Administrative Code NR 140 Enforcement Standard
NR 140 PAL: Wisconsin Administrative Code NR 140 Preventive Action Limit
< > Values represent results greater than the Limit of Detection, but less than the Limit of Quantitation and are within a region of "Less-Certain Quantitation."

TABLE 5 (PAGE 5 OF 8)

125	Parameter concentration exceeds NR 140 ES
0.74	Parameter concentration exceeds NR 140 PAL
<2.5	Parameter analyzed, but not detected, MDL > PAL or ES
	Parameter not analyzed

GROUNDWATER LABORATORY RESULTS
EAGLE CLEANERS

WELL IDENTIFICATION	NMW-1	NMW-1	MW-1	MW-1	MW-2	DUP	MW-2	NR 140 PAL	NR 140 ES
SAMPLE DATE	12/11/02	8/19/03	12/11/02	8/19/03	12/11/02	12/11/	8/19/03		
Analyte									
Alkalinity (mg/L)			33	62	35		43		
Chloride (mg/L)			260	260	190		220		
NO3+NO2-N (mg/L)			2.4	6.6	3.1		2.3		
Sulfate (mg/L)			21	24	17		14		
Methane (µg/L)	<10	<0.50	<10	<0.50	<10		<0.50		
Ethane (µg/L)	<10		<10		<10				
Ethene (µg/L)	<10	<0.50	<10	<0.50	<10		<0.50		
Dissolved Oxygen (mg/L)	0.87		3.28		3.73				
Groundwater Elevations	--	--	1625.60	1626.20	1624.73		1623.73		
VOCs (µg/L)									
Benzene	<0.29	<0.23	<0.29	<0.23	<0.29	<0.29	<0.23	0.5	5
Toluene	<0.36	<0.23	<0.36	<0.23	<0.36	<0.36	<0.23	200	1000
Ethylbenzene	<0.28	<0.21	<0.28	<0.21	<0.28	<0.28	<0.21	140	700
1,2,4-Trimethylbenzene	<0.23	<0.24	<0.23	<0.24	<0.23	<0.23	<0.24		
1,3,5-Trimethylbenzene	<0.30	<0.27	<0.30	<0.27	<0.30	<0.30	<0.27		
Total Trimethylbenzenes	<0.53	<0.51	<0.53	<0.51	<0.53	<0.53	<0.51	96	480
Methyl tert-Butyl ether	<0.33	<0.11	<0.33	<0.11	<0.33	<0.33	<0.11	12	60
m- & p-Xylenes	<0.49	<0.37	<0.49	<0.37	<0.49	<0.49	<0.37		
o-Xylene	<0.26	<0.18	<0.26	<0.18	<0.26	<0.26	<0.18		
Total Xylenes	<0.75	<0.55	<0.75	<0.55	<0.75	<0.75	<0.55	1000	10000
1,1,1,2-Tetrachloroethane	<0.30	<0.19	<0.30	<0.19	<0.30	<0.30	<0.19	7	70
1,1,1-Trichloroethane	<0.31	<0.23	<0.31	<0.23	<0.31	<0.31	<0.23	40	200
1,1,2,2-Tetrachloroethane	<0.31	<0.21	<0.31	<0.21	<0.31	<0.31	<0.21	0.02	0.2
1,1,2-Trichloroethane	<0.40	<0.14	<0.40	<0.14	<0.40	<0.40	<0.14	0.5	5
1,1-Dichloroethane	<0.33	<0.22	<0.33	<0.22	<0.33	<0.33	<0.22	85	850
1,1-Dichloroethene	<0.29	<0.26	<0.29	<0.26	<0.29	<0.29	<0.26		
1,1-Dichloropropene	<0.29	<0.17	<0.29	<0.17	<0.29	<0.29	<0.17		
1,2,3-Trichlorobenzene	<0.26	<0.29	<0.26	<0.29	<0.26	<0.26	<0.29		
1,2,4-Trichlorobenzene	<0.36	<0.24	<0.36	<0.24	<0.36	<0.36	<0.24	14	70
1,2-Dibromo-3-chloropropane (DBCP)	<0.31	<0.21	<0.31	<0.21	<0.31	<0.31	<0.21	0.02	0.2
1,2-Dibromoethane (EDB)	<0.26	<0.20	<0.26	<0.20	<0.26	<0.26	<0.20	0.005	0.05
Dibromomethane	<0.31	<0.20	<0.31	<0.20	<0.31	<0.31	<0.20		
1,2-Dichlorobenzene	<0.29	<0.17	<0.29	<0.17	<0.29	<0.29	<0.17	60	600
1,2-Dichloroethane	<0.34	<0.20	<0.34	<0.20	<0.34	<0.34	<0.20	0.5	5
1,2-Dichloropropane	<0.33	<0.19	<0.33	<0.19	<0.33	<0.33	<0.19	0.5	5
1,3-Dichlorobenzene	<0.29	<0.20	<0.29	<0.20	<0.29	<0.29	<0.20	125	1250
1,3-Dichloropropane	<0.33	<0.18	<0.33	<0.18	<0.33	<0.33	<0.18		
1,4-Dichlorobenzene	<0.26	<0.21	<0.26	<0.21	<0.26	<0.26	<0.21	15	75
2,2-Dichloropropane	<0.28	<0.25	<0.28	<0.25	<0.28	<0.28	<0.25		
2-Chlorotoluene	<0.29	<0.22	<0.29	<0.22	<0.29	<0.29	<0.22		

TABLE 5 (PAGE 6 OF 8)

125	Parameter concentration exceeds NR 140 ES
0.74	Parameter concentration exceeds NR 140 PAL
<2.5	Parameter analyzed, but not detected, MDL > PAL or ES
	Parameter not analyzed

GROUNDWATER LABORATORY RESULTS
EAGLE CLEANERS

WELL IDENTIFICATION	NMW-1	NMW-1	MW-1	MW-1	MW-2	DUP	MW-2	NR 140 PAL	NR 140 ES
SAMPLE DATE	12/11/02	8/19/03	12/11/02	8/19/03	12/11/02	12/11/	8/19/03		
VOCs (µg/L)									
4-Chlorotoluene	<0.22	<0.16	<0.22	<0.16	<0.22	<0.22	<0.16		
Bromobenzene	<0.15	<0.19	<0.15	<0.19	<0.15	<0.15	<0.19		
Bromochloromethane	<0.36	<0.21	<0.36	<0.21	<0.36	<0.36	<0.21		
Bromodichloromethane	<0.32	<0.19	<0.32	<0.19	<0.32	<0.32	<0.19	0.06	0.6
Bromoform	<0.29	<0.18	<0.29	<0.18	<0.29	<0.29	<0.18	0.44	4.4
Bromomethane	<0.35	<0.24	<0.35	<0.24	<0.35	<0.35	<0.24	1	10
Carbon tetrachloride	<0.27	<0.18	<0.27	<0.18	<0.27	<0.27	<0.18	0.5	5
Chlorobenzene	<0.26	<0.18	<0.26	<0.18	<0.26	<0.26	<0.18		
Chloroethane	<1.4	<1.0	<1.4	<1.0	<1.4	<1.4	<1.0	80	400
Chloroform	<0.30	<0.21	<0.30	<0.21	<0.30	<0.33	<0.45>	0.6	6
Chloromethane	<0.29	<0.18	<0.29	<0.18	<0.29	<0.29	<0.18	0.3	3
cis-1,2-Dichloroethene	<0.28	<0.22	<0.28	<0.22	<0.28	<0.28	<0.22		
cis-1,3-Dichloropropene	<0.32	<0.23	<0.32	<0.23	<0.32	<0.32	<0.23	0.02	0.2
trans-1,3-Dichloropropene	<0.34	<0.23	<0.34	<0.23	<0.34	<0.34	<0.23	0.02	0.2
Isopropyl ether	<0.35	<0.19	<0.35	<0.19	<0.35	<0.35	<0.19		
Dibromochloromethane	<0.26	<0.17	<0.26	<0.17	<0.26	<0.26	<0.17	6	60
Dichlorodifluoromethane	<0.42>	<0.30>	<0.34	<0.34>	<0.34	<0.34	<0.34>	200	1000
Hexachlorobutadiene	<0.37	<0.19	<0.37	<0.19	<0.37	<0.37	<0.19		
Isopropylbenzene	<0.28	<0.18	<0.28	<0.18	<0.28	<0.28	<0.18		
Methylene chloride	<0.56	<0.24	<0.56	<0.24	<0.56	<0.56	<0.24	0.5	5
n-Butylbenzene	<0.28	<0.23	<0.28	<0.23	<0.28	<0.28	<0.23		
n-Propylbenzene	<0.25	<0.27	<0.25	<0.27	<0.25	<0.25	<0.27		
Naphthalene	<0.29	<0.39	<0.29	<0.39	<0.29	<0.29	<0.39	8	40
p-Isopropyltoluene	<0.31	<0.23	<0.31	<0.23	<0.31	<0.31	<0.23		
sec-Butylbenzene	<0.32	<0.25	<0.32	<0.25	<0.32	<0.32	<0.25		
tert-Butylbenzene	<0.17	<0.25	<0.17	<0.25	<0.17	<0.17	<0.25		
Styrene	<0.25	<0.17	<0.25	<0.17	<0.25	<0.25	<0.17	10	100
Tetrachloroethene (PCE)	**65**	**31**	**16**	<0.61>	*4.7*	**10**	**9.9**	0.5	5
trans-1,2-Dichloroethene	<0.29	<0.23	<0.29	<0.23	<0.29	<0.29	<0.23		
Trichloroeth(yl)ene (TCE)	<0.29	<0.22	<0.29	<0.22	<0.29	<0.29	<0.22		
Trichlorofluoromethane	<0.28	<0.23	<0.28	<0.23	<0.28	<0.28	<0.23		
1,2,3-Trichloropropane	<0.34	<0.21	<0.34	<0.21	<0.34	<0.34	<0.21	12	60
Vinyl chloride	<0.11	<0.18	<0.11	<0.18	<0.11	<0.11	<0.18	0.02	0.2

MDL: Laboratory Method Detection Limit
NR 140 ES: Wisconsin Administrative Code NR 140 Enforcement Standard
NR 140 PAL: Wisconsin Administrative Code NR 140 Preventive Action Limit
DUP: Duplicate Sample
< > Values represent results greater than the Limit of Detection, but less than the Limit of Quantitation and are within a region of "Less-Certain Quantitation."

TABLE 5 (PAGE 7 OF 8)

GROUNDWATER LABORATORY RESULTS
EAGLE CLEANERS

125	Parameter concentration exceeds NR 140 ES
0.74	Parameter concentration exceeds NR 140 PAL
<2.5	Parameter analyzed, but not detected, MDL > PAL or ES
	Parameter not analyzed

WELL IDENTIFICATION	MW-3	MW-3	PZ-1	PZ-1	PZ-2	PZ-2	NR 140 PAL	NR 140 ES
SAMPLE DATE	12/11/02	8/19/03	12/11/02	8/19/03	12/11/02	8/19/03		
Analyte								
Alkalinity (mg/L)		37	110	81	120	87		
Chloride (mg/L)		210	23	45	17	<4.2>		
NO3+NO2-N (mg/L)		3.0	0.12	0.56	<0.075	<0.050		
Sulfate (mg/L)		14	10	8.5	8.5	9.2		
Methane (µg/L)	<10	<0.50	<10	<0.50	<10	0.85		
Ethane (µg/L)	<10		<10		<10			
Ethene (µg/L)	<10	<0.50	<10	<0.50	<10	<0.50		
Dissolved Oxygen (mg/L)	6.45		1.09		9.02			
Groundwater Elevations	1624.86	1623.72	1623.98	1623.59	1623.89	1623.67		
VOCs (µg/L)								
Benzene	<0.29	<0.23	<0.29	<0.23	<0.29	<0.23	0.5	5
Toluene	<0.36	<0.23	<0.36	<0.23	<0.18>	<0.23	200	1000
Ethylbenzene	<0.28	<0.21	<0.28	<0.21	<0.28	<0.21	140	700
1,2,4-Trimethylbenzene	<0.23	<0.24	<0.23	<0.24	<0.23	<0.24		
1,3,5-Trimethylbenzene	<0.30	<0.27	<0.30	<0.27	<0.30	<0.27		
Total Trimethylbenzenes	<0.53	<0.51	<0.53	<0.51	<0.53	<0.51	96	480
Methyl tert-Butyl ether	<0.33	<0.11	<0.33	<0.11	<0.33	<0.11	12	60
m- & p-Xylenes	<0.49	<0.37	<0.49	<0.37	<0.49	<0.37		
o-Xylene	<0.26	<0.18	<0.26	<0.18	<0.26	<0.18		
Total Xylenes	<0.75	<0.55	<0.75	<0.55	<0.75	<0.55	1000	10000
1,1,1,2-Tetrachloroethane	<0.30	<0.19	<0.30	<0.19	<0.30	<0.19	7	70
1,1,1-Trichloroethane	<0.31	<0.23	<0.31	<0.23	<0.31	<0.23	40	200
1,1,2,2-Tetrachloroethane	<0.31	<0.21	<0.18	<0.21	<0.18	<0.21	0.02	0.2
1,1,2-Trichloroethane	<0.40	<0.14	<0.40	<0.14	<0.40	<0.14	0.5	5
1,1-Dichloroethane	<0.33	<0.22	<0.33	<0.22	<0.33	<0.22	85	850
1,1-Dichloroethene	<0.29	<0.26	<0.29	<0.26	<0.29	<0.26		
1,1-Dichloropropene	<0.29	<0.17	<0.29	<0.17	<0.29	<0.17		
1,2,3-Trichlorobenzene	<0.26	<0.29	<0.26	<0.29	<0.26	<0.29		
1,2,4-Trichlorobenzene	<0.36	<0.24	<0.36	<0.24	<0.36	<0.24	14	70
1,2-Dibromo-3-chloropropane (DBCP)	<0.31	<0.21	<0.31	<0.21	<0.31	<0.21	0.02	0.2
1,2-Dibromoethane (EDB)	<0.26	<0.20	<0.26	<0.20	<0.26	<0.20	0.005	0.05
Dibromomethane	<0.31	<0.20	<0.31	<0.20	<0.31	<0.20		
1,2-Dichlorobenzene	<0.29	<0.17	<0.29	<0.17	<0.29	<0.17	60	600
1,2-Dichloroethane	<0.34	<0.20	<0.34	<0.20	<0.34	<0.20	0.5	5
1,2-Dichloropropane	<0.33	<0.19	<0.33	<0.19	<0.33	<0.19	0.5	5
1,3-Dichlorobenzene	<0.29	<0.20	<0.29	<0.20	<0.29	<0.20	125	1250
1,3-Dichloropropane	<0.33	<0.18	<0.33	<0.18	<0.33	<0.18		
1,4-Dichlorobenzene	<0.26	<0.21	<0.26	<0.21	<0.26	<0.21	15	75
2,2-Dichloropropane	<0.28	<0.25	<0.28	<0.25	<0.28	<0.25		
2-Chlorotoluene	<0.29	<0.22	<0.29	<0.22	<0.29	<0.22		

TABLE 5 (PAGE 8 OF 8)

GROUNDWATER LABORATORY RESULTS
EAGLE CLEANERS

125	Parameter concentration exceeds NR 140 ES
0.74	Parameter concentration exceeds NR 140 PAL
<2.5	Parameter analyzed, but not detected, MDL > PAL or ES
	Parameter not analyzed

WELL IDENTIFICATION	MW-3	MW-3	PZ-1	PZ-1	PZ-2	PZ-2	NR 140 PAL	NR 140 ES
SAMPLE DATE	12/11/02	8/19/03	12/11/02	8/19/03	12/11/02	8/19/03		
VOCs (µg/L)								
4-Chlorotoluene	<0.22	<0.16	<0.22	<0.16	<0.22	<0.16		
Bromobenzene	<0.15	<0.19	<0.15	<0.19	<0.15	<0.19		
Bromochloromethane	<0.36	<0.21	<0.36	<0.21	<0.36	<0.21		
Bromodichloromethane	<0.32	<0.19	<0.32	<0.19	**3.6**	<0.19	0.06	0.6
Bromoform	<0.29	<0.18	<0.29	<0.18	<0.29	<0.18	0.44	4.4
Bromomethane	<0.35	<0.24	<0.35	<0.24	<0.35	<0.24	1	10
Carbon tetrachloride	<0.27	<0.18	<0.27	<0.18	<0.27	<0.18	0.5	5
Chlorobenzene	<0.26	<0.18	<0.26	<0.18	<0.26	<0.18		
Chloroethane	<1.4	<1.0	<1.4	<1.0	<1.4	<1.0	80	400
Chloroform	<0.33>	<0.21	<0.42>	<0.21	**35**	<0.21	0.6	6
Chloromethane	<0.29	<0.18	<0.29	<0.18	<0.29	<0.18	0.3	3
cis-1,2-Dichloroethene	<0.28	<0.22	<0.28	<0.22	<0.28	<0.22		
cis-1,3-Dichloropropene	<0.32	<0.23	<0.32	<0.23	<0.32	<0.23	0.02	0.2
trans-1,3-Dichloropropene	<0.34	<0.23	<0.34	<0.23	<0.34	<0.23	0.02	0.2
Isopropyl ether	<0.35	<0.19	<0.35	<0.19	<0.35	<0.19		
Dibromochloromethane	<0.26	<0.17	<0.26	<0.17	<0.32>	<0.17	6	60
Dichlorodifluoromethane	<0.34	<0.25	<0.34	<0.25	<0.34	<0.25	200	1000
Hexachlorobutadiene	<0.37	<0.19	<0.37	<0.19	<0.37	<0.19		
Isopropylbenzene	<0.28	<0.18	<0.28	<0.18	<0.28	<0.18		
Methylene chloride	<0.56	<0.24	<0.56	<0.24	<0.56	<0.24	0.5	5
n-Butylbenzene	<0.28	<0.23	<0.28	<0.23	<0.28	<0.23		
n-Propylbenzene	<0.25	<0.27	<0.25	<0.27	<0.25	<0.27		
Naphthalene	<0.29	<0.39	<0.29	<0.39	<0.29	<0.39	8	40
p-Isopropyltoluene	<0.31	<0.23	<0.31	<0.23	<0.31	<0.23		
sec-Butylbenzene	<0.32	<0.25	<0.32	<0.25	<0.32	<0.25		
tert-Butylbenzene	<0.17	<0.25	<0.17	<0.25	<0.17	<0.25		
Styrene	<0.25	<0.17	<0.25	<0.17	<0.25	<0.17	10	100
Tetrachloroethene (PCE)	<0.60>	*1.4*	<0.10	<0.18	<0.25	<0.18	0.5	5
trans-1,2-Dichloroethene	<0.29	<0.23	<0.29	<0.23	<0.29	<0.23		
Trichloroeth(yl)ene (TCE)	<0.29	<0.22	<0.29	<0.22	<0.29	<0.22		
Trichlorofluoromethane	<0.28	<0.23	<0.28	<0.23	<0.28	<0.23		
1,2,3-Trichloropropane	<0.34	<0.21	<0.34	<0.21	<0.34	<0.21	12	60
Vinyl chloride	<0.11	<0.18	<0.11	<0.18	<0.11	<0.18	0.02	0.2

MDL: Laboratory Method Detection Limit
NR 140 ES: Wisconsin Administrative Code NR 140 Enforcement Standard
NR 140 PAL: Wisconsin Administrative Code NR 140 Preventive Action Limit
DUP: Duplicate Sample
< > Values represent results greater than the Limit of Detection, but less than the Limit of Quantitation and are within a region of "Less-Certain Quantitation."

K/O Bulk
Slug Test Analysis: KW-3 (Bouwer and Rice Method)

Screen Length (ft)	L_e	10	L_e/r_w	30.30303
Water in well (ft)	L_w	15	**A**	2.5
Well Radius (ft)	r_c	0.0833	**B**	0.4
Borehole Radius (ft)	r_w	0.33	**t**	79
Porosity	**n**	0.4	y_o	0.78
Aquifer Thickness (ft)	**H**	25	y_t	0.13

Radius of Casing Calculation (Taking into account the thickness and porosity of the gravel envelope):

$$r_{ce} = [r_c^2 + n(r_w^2 - r_c^2)]^{1/2}$$

r_{ce} 0.21845671

Dimensionless ratio ($\ln R_e/r_w$) Calculation:

$$\ln R_e/r_w = [(1.1/\ln(L_w/r_w)) + ((A + B\ln[(H-L_w)/r_w)/(L_e/r_w)])]^{-1}$$

$\ln R_e/r_w$ 2.405380791

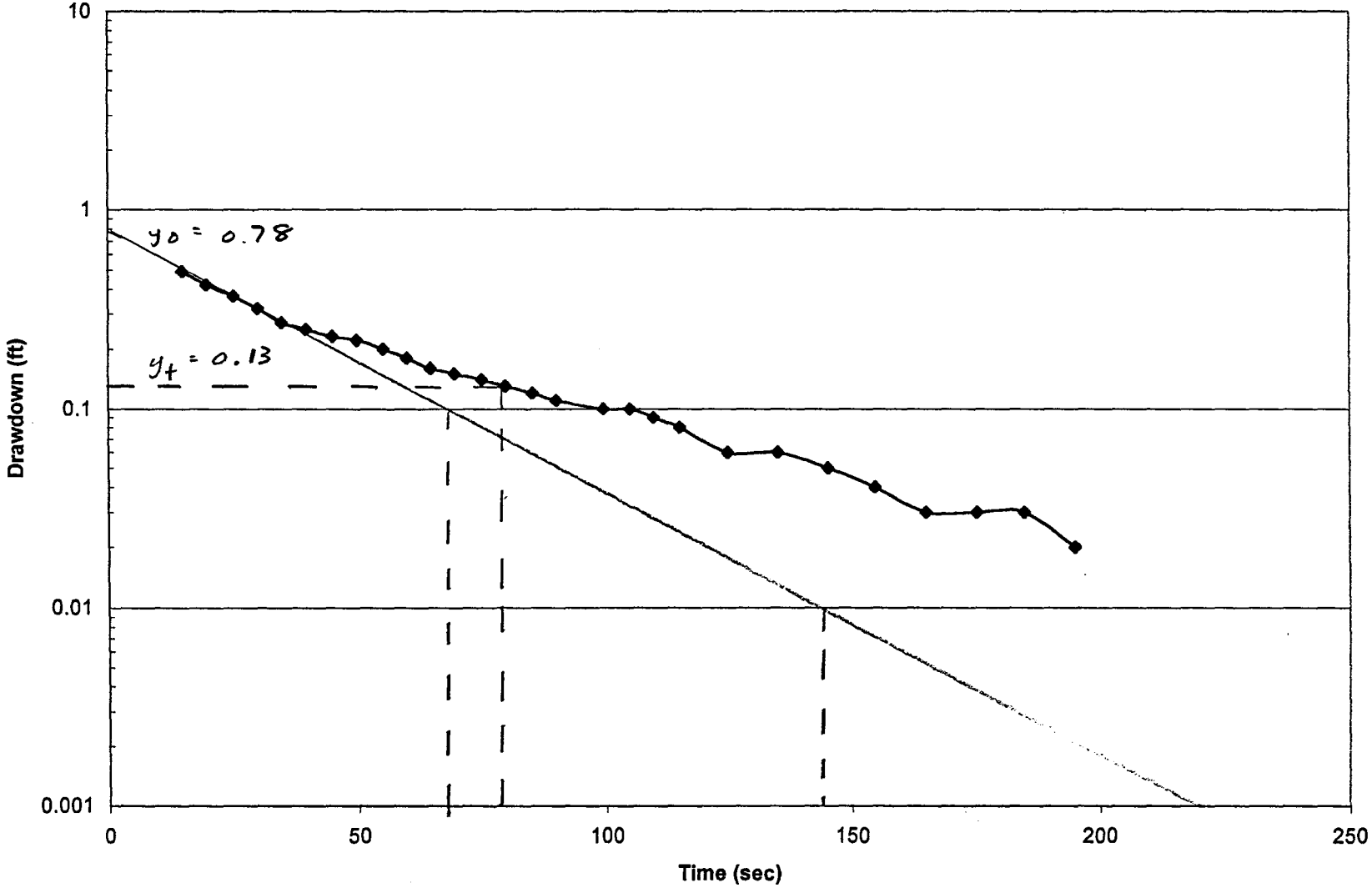
Hydraulic Conductivity (K) Calculation:

$$K = (r_{ce}^2 \ln(R_e/r_w))/(2L_e) * (1/t) * \ln(y_o/y_t)$$

K (ft/sec) 0.000130178

K(cm/sec) 0.003967822

K/O Bulk
Slug Test (Bouwer and Rice): KW-3



$t = 147 - 68 = 79$

Owner 88001

EAGLE RIVER(CITY OF)-UTILITY

PO BOX 218

EAGLE RIVER WI 54521

ow 2 phone

Operator 88001

EAGLE RIVER(CITY OF)-UTILITY

PO BOX 218

EAGLE RIVER WI 54521

op 2 phone

LOCATION

County VILAS

Civil Town EAGLE RIVER(CITY OF)

Govt Lot ____ or NE 1/4 of the NE 1/4

Sec. 32, T 40, Rg. 10 E/W E

Street 1200 W. PINE STREET

Mailing City

File Location 64 - 9 - 1

Grid fid 764011380

District 7

Basin 160

Well Numbers Perm. 718

Owner 001 Operator 001

Class PUBLIC WATER SUPPLY

Approved Capacity 300 GPM

Normal Pumpage 216,000GPD

Max pumpage 432,000GPD

Status 0

Approved

Completed 12/20/1988

Co Apprvl # 1

General Well Information

Drilled by: LAYNE NORTHWEST CO 582

Total Depth ft 89.0

Feet to rock

First Rock is

Drill Method:

Aquifer SAND/GRAVEL

Multiple Aquifers? N

Gravel Pack Y

Screened? Y 3

WOUND WIRE - STAINLESS STEEL

Additional Geology Information. (Note Diameters are in inches, lengths, thickness & depths are in feet.)

Formation Thickness	
Surface Sand	26.0
Surface Clay	63.0
Devonian	
Silurian	
Maquoketa	
Sinnippe	
Ancell	
Prairie du Chien	
Cambrian	
Precambrian	

Upper Drillhole Diameter	
Upper Drillhole Depth-Ft	
Lower Drillhole Diameter	12.0
Lower Drillhole Length	89.0
More than 2 Drillholes?	N
Primary Casing Diameter	12.0
Primary Casing Depth	72.0
Liner Casing Diameter	8.0
Liner Casing Length	77.0
Liner Casing Depth	77.0

Screen Diameter	8.0
Screen Length	12.0
Sealing Material Depth	60.0
Hours of Yield Test	6.0
GPM of Yield Test	302.0
Static Water (feet)	2.6
Pumping Water Level (ft)	3.8
Specific Capacity(GPM/Ft)	25.2

<File

WGNHS Log No.

Dir E

Owner 88001

EAGLE RIVER(CITY OF)-UTILITY

PO BOX 218

EAGLE RIVER WI 54521

ow 2 phone

Operator 88001

EAGLE RIVER(CITY OF)-UTILITY

PO BOX 218

EAGLE RIVER WI 54521

op 2 phone

LOCATION

County VILAS

Civil Town EAGLE RIVER(CITY OF)

Govt Lot ____ or NE 1/4 of the NE 1/4

Sec. 32, T 40, Rg. 10 E/W E

Street 1200 W. PINE STREET

Mailing City

File Location 64 - 9 - 1

Grid fid 764011380

District 7

Basin 171

Well Numbers Perm. 87241

Owner 002 Operator 002

Class PUBLIC WATER SUPPLY

Approved Capacity 350 GPM

Normal Pumpage 237,000GPD

Max pumpage 504,000GPD

Status 0

Approved 05/22/1934

Completed

Co Apprvl # 1

General Well Information

Drilled by: WEISS

Total Depth ft 75.0

Feet to rock 0.0

First Rock is

Drill Method:

Aquifer SAND/GRAVEL

Multiple Aquifers? N

Gravel Pack Y

Screened? Y

Additional Geology Information. (Note Diameters are in Inches, lengths, thickness & depths are in feet.)

Formation Thickness	
Surface Sand	51.0
Surface Clay	24.0
Devonian	
Silurian	
Maquoketa	
Sinnippe	
Ancell	
Prairie du Chien	
Cambrian	
Precambrian	

Upper Drillhole Diameter	
Upper Drillhole Depth-Ft	
Lower Drillhole Diameter	20.0
Lower Drillhole Length	75.0
More than 2 Drillholes?	N
Primary Casing Diameter	20.0
Primary Casing Depth	60.0
Liner Casing Diameter	
Liner Casing Length	
Liner Casing Depth	

Screen Diameter	20.0
Screen Length	15.0
Sealing Material Depth	
Hours of Yield Test	
GPM of Yield Test	320.0
Static Water (feet)	2.3
Pumping Water Level (ft)	3.6
Specific Capacity(GPM/Ft)	24.6
<File	
WGNHS Log No.	

Dir E

Owner 88001

EAGLE RIVER(CITY OF)-UTILITY

PO BOX 218

EAGLE RIVER WI 54521

ow 2 phone

Operator 88001

EAGLE RIVER(CITY OF)-UTILITY

PO BOX 218

EAGLE RIVER WI 54521

op 2 phone

LOCATION

County VILAS

Civil Town EAGLE RIVER(CITY OF)

Govt Lot ____ or SW1/4 of the SW1/4

Sec. 29 , T 40 , Rg. 10 E/W E

Street 4854 SHURBURNE

Mailing City STREET

File Location 64 - 9 - 1

Grid fid 764011380

District 7

Basin 171

Well Numbers Perm. 87242

Owner 003 Operator 003

Class PUBLIC WATER SUPPLY

Approved Capacity 950 GPM

Normal Pumpage 347,000GPD

Max pumpage 1,368,000GPD

Status 0

Approved 08/07/1970

Completed 04/01/1971

Co Apprvl # 1

General Well Information

Drilled by: LAYNE NORTHWEST CO 582

Total Depth ft 138.5

Feet to rock 0.0

First Rock is

Drill Method:

Aquifer SAND/GRAVEL

Multiple Aquifers? N

Gravel Pack Y

Screened? Y 3

WOUND WIRE - STAINLESS STEEL

Additional Geology Information. (Note Diameters are in inches, lengths, thickness & depths are in feet.)

Formation Thickness	
Surface Sand	58.5
Surface Clay	80.0
Devonian	
Silurian	
Maquoketa	
Sinnippe	
Ancell	
Prairie du Chien	
Cambrian	
Precambrian	

Upper Drillhole Diameter	36.0
Upper Drillhole Depth-Ft	120.0
Lower Drillhole Diameter	30.0
Lower Drillhole Length	18.5
More than 2 Drillholes?	Y
Primary Casing Diameter	14.0
Primary Casing Depth	98.0
Liner Casing Diameter	
Liner Casing Length	
Liner Casing Depth	

Screen Diameter	14.0
Screen Length	40.0
Sealing Material Depth	82.0
Hours of Yield Test	10.0
GPM of Yield Test	857.0
Static Water (feet)	1.8
Pumping Water Level (ft)	3.1
Specific Capacity(GPM/Ft)	70.4

<File

WGNHS Log No. VI0054

Dir E

See Appendix F for the
MATRIX Environmental, LLC,
Mobile Lab Soil Results
(included with Groundwater Results)

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

RECEIVED OCT - 2 2002

September 30, 2002

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

REPORT NO.: 111830 **PROJECT NO.: EAGLECLEANER**

Please find enclosed the analytical report, including the Sample Summary, Sample Narrative and Chain of Custody for your sample set received September 18, 2002.

All analyses were performed in accordance with approved methods as indicated on this report.

If you have any questions about the results, please call. Thank you for using USFilter, Enviroscan Services for your analytical needs.

Sincerely,

USFilter, Enviroscan Services

James R. Salkowski
Laboratory Director

I certify that the data contained in this report has been generated and reviewed in accordance with the USFilter, Enviroscan Services Quality Assurance Program. Exceptions, if any, are discussed in the sample narrative. Samples will be retained for 30 days from the date of this report, then disposed in an appropriate manner. USFilter, Enviroscan Services reserves the right to return samples identified as hazardous. Release of this Final Report is authorized as verified by the following signature.

Approved by: _____

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sample Summary

111830.2

Lab Id	Client Sample ID	Date/Time	Matrix
111830	GP1 5-10	09/12/02 09:30	SOIL
111831	GP1	09/12/02 09:40	GROUNDWATER
111832	GP2 12'	09/12/02 10:30	SOIL
111833	GP3	09/12/02 12:15	GROUNDWATER
111834	GP5 13'	09/12/02 14:50	SOIL
111835	GP7	09/12/02 17:00	GROUNDWATER
111836	GP8 12'	09/12/02 17:45	SOIL
111837	GP9 4'	09/12/02 19:20	SOIL
111838	GP9	09/12/02 19:35	GROUNDWATER
111839	GP10	09/13/02 09:25	GROUNDWATER
111840	GP11	09/13/02 10:20	GROUNDWATER
111841	NMW1	09/13/02 11:00	GROUNDWATER
111842	TRIP BLANK-USF	09/13/02	WATER

Sample Narrative/Sample Status

LOGIN:

GENERAL:

ANALYSES:

QA/QC:

REPORTING:

Definitions

LOD = Limit of Detection
LOQ = Limit of Quantitation
< = Less Than
COMP = Complete
SUBCON = Subcontracted analysis
mv = millivolts
pCi/l = picocurie per liter
ml/l = mililiters/Liter

µg/l = Micrograms per liter = parts per billion (ppb)
µg/kg = Micrograms per kilogram = parts per billion (ppb)
mg/l = Milligrams per liter = parts per million (ppm)
mg/kg = Milligrams per kilogram = parts per million (ppm)
NOT PRES = Not Present
ppth = Parts per thousand
(S) = Surrogate Compound

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

PROJECT NO.: EAGLECLEANER
REPORT NO. : 111830.3
DATE REC'D : 09/18/02
REPORT DATE: 09/30/02
PREPARED BY: JRS

Sample ID: **GP1 5-10** Matrix: **SOIL** Sample Date/Time: **09/12/02 09:30** Lab No. **111830**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1		09/23/02	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		09/23/02	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.0666	1		09/23/02	LMP
Chloroethane	<0.025	mg/kg	0.09	0.3	1	CSH	09/23/02	LMP
Chloroform	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
Chloromethane	<0.025	mg/kg	0.01	0.0333	1	CSH LCL DUP	09/23/02	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		09/23/02	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.0167	1	CSH	09/23/02	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.0533	1	CSH	09/23/02	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.0266	1	CSH	09/23/02	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.0266	1	LCL	09/23/02	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1		09/23/02	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.0466	1	CSL LCL	09/23/02	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.0366	1		09/23/02	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.0599	1	CSL	09/23/02	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
Naphthalene	<0.025	mg/kg	0.01	0.0333	1	CSH	09/23/02	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
PCE – Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1		09/23/02	LMP
Toluene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1		09/23/02	LMP
TCE – Trichloroethylene	<0.025	mg/kg	0.011	0.0366	1		09/23/02	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.0266	1	CSH LCL	09/23/02	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		09/23/02	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.0599	1	CSH LCL	09/23/02	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		09/23/02	LMP
o-Xylene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
PID Surrogate Recovery (S)	102.	%	-	-	1		09/23/02	LMP
HALL Surrogate Recovery (S)	114.	%	-	-	1		09/23/02	LMP
MOSA21-2								
Total Solids	95.2	%	-	0.33	-		09/19/02	LMV

All results calculated on a dry weight basis.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

PROJECT NO.: EAGLECLEANER
REPORT NO. : 111830.4
DATE REC'D : 09/18/02
REPORT DATE: 09/30/02
PREPARED BY: JRS

Sample ID: **GP1** Matrix: **GRDWTR** Sample Date/Time: **09/12/02 09:40** Lab No. **111831**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	0.356	µg/l	0.31	1.03	1	J	09/25/02	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		09/25/02	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		09/25/02	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1	DUP	09/25/02	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		09/25/02	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		09/25/02	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1	CSH	09/25/02	LMP
Chloroform	<0.27	µg/l	0.27	0.899	1		09/25/02	LMP
Chloromethane	<0.29	µg/l	0.29	0.966	1	CSH SPH	09/25/02	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		09/25/02	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		09/25/02	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.966	1		09/25/02	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1	CSH	09/25/02	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.566	1		09/25/02	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.766	1		09/25/02	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.833	1		09/25/02	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		09/25/02	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1	CSL	09/25/02	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		09/25/02	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		09/25/02	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		09/25/02	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		09/25/02	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	09/25/02	LMP
n-Propylbenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Tetrachloroeth(yl)ene - PCE	9.77	µg/l	0.32	1.07	1		09/25/02	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
Toluene	0.827	µg/l	0.3	0.999	1	J	09/25/02	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		09/25/02	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		09/25/02	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		09/25/02	LMP
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
Trichloroeth(yl)ene TCE	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		09/25/02	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		09/25/02	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.666	1		09/25/02	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1	CSL	09/25/02	LMP
o-Xylene	0.31	µg/l	0.3	0.999	1	J	09/25/02	LMP
PID Surrogate Recovery (S)	96.9	%	-	-	1		09/25/02	LMP
HALL Surrogate Recovery (S)	126.	%	-	-	1		09/25/02	LMP

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

PROJECT NO.: EAGLECLEANER
REPORT NO. : 111830.5
DATE REC'D : 09/18/02
REPORT DATE: 09/30/02
PREPARED BY: JRS

Sample ID: GP2 12' Matrix: SOIL Sample Date/Time: 09/12/02 10:30 Lab No. 111832

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1		09/23/02	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		09/23/02	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.0666	1		09/23/02	LMP
Chloroethane	<0.025	mg/kg	0.09	0.3	1	CSH	09/23/02	LMP
Chloroform	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
Chloromethane	<0.025	mg/kg	0.01	0.0333	1	CSH LCL DUP	09/23/02	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		09/23/02	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.0167	1	CSH	09/23/02	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.0533	1	CSH	09/23/02	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.0266	1	CSH	09/23/02	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.0266	1	LCL	09/23/02	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1		09/23/02	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.0466	1	CSL LCL	09/23/02	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.0366	1		09/23/02	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.0599	1	CSL	09/23/02	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
Naphthalene	<0.025	mg/kg	0.01	0.0333	1	CSH	09/23/02	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
PCE Tetrachloroethylene	0.0361	mg/kg	0.009	0.03	1		09/23/02	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1		09/23/02	LMP
Toluene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1		09/23/02	LMP
TCE Trichloroethylene	<0.025	mg/kg	0.011	0.0366	1		09/23/02	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.0266	1	CSH LCL	09/23/02	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		09/23/02	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.0599	1	CSH LCL	09/23/02	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		09/23/02	LMP
o-Xylene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
PID Surrogate Recovery (S)	96.8	%	-	-	1		09/23/02	LMP
HALL Surrogate Recovery (S)	122.	%	-	-	1		09/23/02	LMP
MOSA21-2								
Total Solids	96.7	%	-	0.33	-		09/19/02	LMV

All results calculated on a dry weight basis.

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

PROJECT NO.: EAGLECLEANER
REPORT NO. : 111830.6
DATE REC'D : 09/18/02
REPORT DATE: 09/30/02
PREPARED BY: JRS

Sample ID: GP3 Matrix: GRDWTR Sample Date/Time: 09/12/02 12:15 Lab No. 111833

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		09/25/02	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		09/25/02	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1	DUP	09/25/02	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		09/25/02	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		09/25/02	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1	CSH	09/25/02	LMP
Chloroform	<0.27	µg/l	0.27	0.899	1		09/25/02	LMP
Chloromethane	<0.29	µg/l	0.29	0.966	1	CSH SPH	09/25/02	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		09/25/02	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		09/25/02	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.966	1		09/25/02	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1	CSH	09/25/02	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.566	1		09/25/02	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.766	1		09/25/02	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.833	1		09/25/02	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		09/25/02	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1	CSL	09/25/02	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		09/25/02	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		09/25/02	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		09/25/02	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		09/25/02	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	09/25/02	LMP
n-Propylbenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
PCE — Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		09/25/02	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
Toluene	0.361	µg/l	0.3	0.999	1	J	09/25/02	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		09/25/02	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		09/25/02	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		09/25/02	LMP
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
TCE — Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		09/25/02	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		09/25/02	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.666	1		09/25/02	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1	CSL	09/25/02	LMP
o-Xylene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
PID Surrogate Recovery (S)	96.8	%	-	-	1		09/25/02	LMP
HALL Surrogate Recovery (S)	125.	%	-	-	1		09/25/02	LMP

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TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

PROJECT NO.: EAGLECLEANER
REPORT NO. : 111830.7
DATE REC'D : 09/18/02
REPORT DATE: 09/30/02
PREPARED BY: JRS

Sample ID: GP5 13' Matrix: SOIL Sample Date/Time: 09/12/02 14:50 Lab No. 111834

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.0266	1.1		09/23/02	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.0233	1.1		09/23/02	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1.1		09/23/02	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1.1		09/23/02	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.0333	1.1		09/23/02	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.0333	1.1		09/23/02	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.0266	1.1		09/23/02	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.0233	1.1		09/23/02	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.0666	1.1		09/23/02	LMP
Chloroethane	<0.025	mg/kg	0.09	0.3	1.1	CSH	09/23/02	LMP
Chloroform	<0.025	mg/kg	0.01	0.0333	1.1		09/23/02	LMP
Chloromethane	<0.025	mg/kg	0.01	0.0333	1.1	CSH LCL DUP	09/23/02	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.0266	1.1		09/23/02	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.0266	1.1		09/23/02	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1.1		09/23/02	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1.1		09/23/02	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1.1		09/23/02	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1.1		09/23/02	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1.1		09/23/02	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.0466	1.1		09/23/02	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1.1		09/23/02	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.0167	1.1	CSH	09/23/02	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.0533	1.1	CSH	09/23/02	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1.1		09/23/02	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.0333	1.1		09/23/02	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.0233	1.1		09/23/02	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.0266	1.1	CSH	09/23/02	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.0266	1.1	LCL	09/23/02	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.0233	1.1		09/23/02	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1.1		09/23/02	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1.1		09/23/02	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.0466	1.1	CSL LCL	09/23/02	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.0366	1.1		09/23/02	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.0599	1.1	CSL	09/23/02	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.0466	1.1		09/23/02	LMP
Naphthalene	<0.025	mg/kg	0.01	0.0333	1.1	CSH	09/23/02	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1.1		09/23/02	LMP
PCE — Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1.1		09/23/02	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1.1		09/23/02	LMP
Toluene	<0.025	mg/kg	0.007	0.0233	1.1		09/23/02	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.0466	1.1		09/23/02	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.0466	1.1		09/23/02	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.0266	1.1		09/23/02	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1.1		09/23/02	LMP
TCE — Trichloroethylene	<0.025	mg/kg	0.011	0.0366	1.1		09/23/02	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.0266	1.1	CSH LCL	09/23/02	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1.1		09/23/02	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.0333	1.1		09/23/02	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.0599	1.1	CSH LCL	09/23/02	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1.1		09/23/02	LMP
o-Xylene	<0.025	mg/kg	0.008	0.0266	1.1		09/23/02	LMP
PID Surrogate Recovery (S)	99.5	%	-	-	1		09/23/02	LMP
HALL Surrogate Recovery (S)	119.	%	-	-	1		09/23/02	LMP
MOSA21-2								
Total Solids	97.2	%	-	0.33	-		09/19/02	LMV

All results calculated on a dry weight basis.

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301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

PROJECT NO.: EAGLECLEANER
REPORT NO. : 111830.8
DATE REC'D : 09/18/02
REPORT DATE: 09/30/02
PREPARED BY: JRS

Sample ID: GP7 Matrix: GRDWTR Sample Date/Time: 09/12/02 17:00 Lab No. 111835

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		09/25/02	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		09/25/02	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1	DUP	09/25/02	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		09/25/02	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		09/25/02	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1	CSH	09/25/02	LMP
Chloroform	<0.27	µg/l	0.27	0.899	1		09/25/02	LMP
Chloromethane	<0.29	µg/l	0.29	0.966	1	CSH SPH	09/25/02	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		09/25/02	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		09/25/02	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.966	1		09/25/02	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1	CSH	09/25/02	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.566	1		09/25/02	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.766	1		09/25/02	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.833	1		09/25/02	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		09/25/02	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1	CSL	09/25/02	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		09/25/02	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		09/25/02	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		09/25/02	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		09/25/02	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	09/25/02	LMP
n-Propylbenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
PCE — Tetrachloroeth(yl)ene	4.86	µg/l	0.32	1.07	1		09/25/02	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
Toluene	0.711	µg/l	0.3	0.999	1	J	09/25/02	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		09/25/02	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		09/25/02	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		09/25/02	LMP
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
TCE — Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		09/25/02	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		09/25/02	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.666	1		09/25/02	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1	CSL	09/25/02	LMP
o-Xylene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
PID Surrogate Recovery (S)	95.2	%	-	-	1		09/25/02	LMP
HALL Surrogate Recovery (S)	133.	%	-	-	1		09/25/02	LMP

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TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

PROJECT NO.: EAGLECLEANER
REPORT NO. : 111830.9
DATE REC'D : 09/18/02
REPORT DATE: 09/30/02
PREPARED BY: JRS

Sample ID: **GP8 12'** Matrix: **SOIL** Sample Date/Time: **09/12/02 17:45** Lab No. **111836**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1		09/23/02	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		09/23/02	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.0666	1		09/23/02	LMP
Chloroethane	<0.025	mg/kg	0.09	0.3	1	CSH	09/23/02	LMP
Chloroform	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
Chloromethane	<0.025	mg/kg	0.01	0.0333	1	CSH LCL DUP	09/23/02	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		09/23/02	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.0167	1	CSH	09/23/02	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.0533	1	CSH	09/23/02	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.0266	1	CSH	09/23/02	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.0266	1	LCL	09/23/02	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1		09/23/02	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.0466	1	CSL LCL	09/23/02	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.0366	1		09/23/02	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.0599	1	CSL	09/23/02	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
Naphthalene	<0.025	mg/kg	0.01	0.0333	1	CSH	09/23/02	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
PCE — Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1		09/23/02	LMP
Toluene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1		09/23/02	LMP
TCE — Trichloroethylene	<0.025	mg/kg	0.011	0.0366	1		09/23/02	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.0266	1	CSH LCL	09/23/02	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		09/23/02	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.0599	1	CSH LCL	09/23/02	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		09/23/02	LMP
o-Xylene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
PID Surrogate Recovery (S)	102.	%	-	-	1		09/23/02	LMP
HALL Surrogate Recovery (S)	110.	%	-	-	1		09/23/02	LMP
MOSA21-2								
Total Solids	94.1	%	-	0.33	-		09/19/02	LMV

All results calculated on a dry weight basis.

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

PROJECT NO.: EAGLECLEANER
REPORT NO. : 111830.10
DATE REC'D : 09/18/02
REPORT DATE: 09/30/02
PREPARED BY: JRS

Sample ID: GP9 4' Matrix: SOIL Sample Date/Time: 09/12/02 19:20 Lab No. 111837

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
Bromobenzene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
Bromodichloromethane	<0.025	mg/kg	0.006	0.02	1		09/23/02	LMP
n-Butylbenzene	<0.025	mg/kg	0.012	0.04	1		09/23/02	LMP
sec-Butylbenzene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
tert-Butylbenzene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
Chlorobenzene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
Chlorodibromomethane	<0.025	mg/kg	0.02	0.0666	1		09/23/02	LMP
Chloroethane	<0.025	mg/kg	0.09	0.3	1	CSH	09/23/02	LMP
Chloroform	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
Chloromethane	<0.025	mg/kg	0.01	0.0333	1	CSH LCL DUP	09/23/02	LMP
2-Chlorotoluene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
4-Chlorotoluene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.012	0.04	1		09/23/02	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.005	0.0167	1	CSH	09/23/02	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.016	0.0533	1	CSH	09/23/02	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.008	0.0266	1	CSH	09/23/02	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.008	0.0266	1	LCL	09/23/02	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.015	0.05	1		09/23/02	LMP
Isopropylbenzene	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
Isopropyl Ether	<0.025	mg/kg	0.014	0.0466	1	CSL LCL	09/23/02	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.011	0.0366	1		09/23/02	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.0599	1	CSL	09/23/02	LMP
Methylene Chloride	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
Naphthalene	<0.025	mg/kg	0.01	0.0333	1	CSH	09/23/02	LMP
n-Propylbenzene	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
PCE — Tetrachloroethylene	<0.025	mg/kg	0.009	0.03	1		09/23/02	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.006	0.02	1		09/23/02	LMP
Toluene	<0.025	mg/kg	0.007	0.0233	1		09/23/02	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.014	0.0466	1		09/23/02	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.006	0.02	1		09/23/02	LMP
TCE — Trichloroethylene	<0.025	mg/kg	0.011	0.0366	1		09/23/02	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.008	0.0266	1	CSH LCL	09/23/02	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.012	0.04	1		09/23/02	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.01	0.0333	1		09/23/02	LMP
Vinyl Chloride	<0.025	mg/kg	0.018	0.0599	1	CSH LCL	09/23/02	LMP
m- & p-Xylene	<0.025	mg/kg	0.015	0.05	1		09/23/02	LMP
o-Xylene	<0.025	mg/kg	0.008	0.0266	1		09/23/02	LMP
PID Surrogate Recovery (S)	99.3	%	-	-	1		09/23/02	LMP
HALL Surrogate Recovery (S)	112.	%	-	-	1		09/23/02	LMP
MOSA21-2								
Total Solids	94.9	%	-	0.33	-		09/19/02	LMV

All results calculated on a dry weight basis.

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

PROJECT NO.: EAGLECLEANER
REPORT NO. : 111830.11
DATE REC'D : 09/18/02
REPORT DATE: 09/30/02
PREPARED BY: JRS

Sample ID: GP9 Matrix: GRDWTR Sample Date/Time: 09/12/02 19:35 Lab No. 111838

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		09/25/02	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		09/25/02	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1	DUP	09/25/02	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		09/25/02	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		09/25/02	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1	CSH	09/25/02	LMP
Chloroform	<0.27	µg/l	0.27	0.899	1		09/25/02	LMP
Chloromethane	<0.29	µg/l	0.29	0.966	1	CSH SPH	09/25/02	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		09/25/02	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		09/25/02	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.966	1		09/25/02	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1	CSH	09/25/02	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.566	1		09/25/02	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.766	1		09/25/02	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.833	1		09/25/02	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		09/25/02	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1	CSL	09/25/02	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		09/25/02	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		09/25/02	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		09/25/02	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		09/25/02	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	09/25/02	LMP
n-Propylbenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
PCE — Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		09/25/02	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
Toluene	0.757	µg/l	0.3	0.999	1	J	09/25/02	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		09/25/02	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		09/25/02	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		09/25/02	LMP
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
TCE — Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		09/25/02	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		09/25/02	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.666	1		09/25/02	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1	CSL	09/25/02	LMP
o-Xylene	0.307	µg/l	0.3	0.999	1	J	09/25/02	LMP
PID Surrogate Recovery (S)	97.9	%	-	-	1		09/25/02	LMP
HALL Surrogate Recovery (S)	128.	%	-	-	1		09/25/02	LMP

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301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

PROJECT NO.: EAGLECLEANER
REPORT NO. : 111830.12
DATE REC'D : 09/18/02
REPORT DATE: 09/30/02
PREPARED BY: JRS

Sample ID: **GP10** Matrix: **GRDWTR** Sample Date/Time: **09/13/02 09:25** Lab No. **111839**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		09/25/02	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		09/25/02	LMP
n-Butylbenzene	0.48	µg/l	0.36	1.2	1		09/25/02	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1	DUP	09/25/02	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		09/25/02	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		09/25/02	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1	CSH	09/25/02	LMP
Chloroform	<0.27	µg/l	0.27	0.899	1		09/25/02	LMP
Chloromethane	<0.29	µg/l	0.29	0.966	1	CSH SPH	09/25/02	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		09/25/02	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		09/25/02	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.966	1		09/25/02	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1	CSH	09/25/02	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.566	1		09/25/02	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.766	1		09/25/02	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.833	1		09/25/02	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		09/25/02	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1	CSL	09/25/02	LMP
Ethylbenzene	0.748	µg/l	0.5	1.67	1	J	09/25/02	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		09/25/02	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		09/25/02	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		09/25/02	LMP
Methyl t-Butyl Ether(MTBE)	0.711	µg/l	0.3	0.999	1	J	09/25/02	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1		09/25/02	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	09/25/02	LMP
n-Propylbenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
PCE – Tetrachloroeth(yl)ene	6.36	µg/l	0.32	1.07	1		09/25/02	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
Toluene	0.899	µg/l	0.3	0.999	1	J	09/25/02	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		09/25/02	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		09/25/02	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		09/25/02	LMP
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
TCE – Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		09/25/02	LMP
1,2,4-Trimethylbenzene	1.42	µg/l	0.4	1.33	1		09/25/02	LMP
1,3,5-Trimethylbenzene	0.362	µg/l	0.31	1.03	1	J	09/25/02	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.666	1		09/25/02	LMP
m- & p-Xylene	1.60	µg/l	0.62	2.06	1	CSL	09/25/02	LMP
o-Xylene	0.589	µg/l	0.3	0.999	1	J	09/25/02	LMP
PID Surrogate Recovery (S)	101.	%	-	-	1		09/25/02	LMP
HALL Surrogate Recovery (S)	128.	%	-	-	1		09/25/02	LMP

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

PROJECT NO.: EAGLECLEANER
REPORT NO. : 111830.13
DATE REC'D : 09/18/02
REPORT DATE: 09/30/02
PREPARED BY: JRS

Sample ID: **GP11** Matrix: **GRDWTR** Sample Date/Time: **09/13/02 10:20** Lab No. **111840**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		09/25/02	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		09/25/02	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1	DUP	09/25/02	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		09/25/02	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		09/25/02	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1	CSH	09/25/02	LMP
Chloroform	<0.27	µg/l	0.27	0.899	1		09/25/02	LMP
Chloromethane	<0.29	µg/l	0.29	0.966	1	CSH SPH	09/25/02	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		09/25/02	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		09/25/02	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.966	1		09/25/02	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1	CSH	09/25/02	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.566	1		09/25/02	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.766	1		09/25/02	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.833	1		09/25/02	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		09/25/02	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1		09/25/02	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		09/25/02	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		09/25/02	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		09/25/02	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1	CSH	09/25/02	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1		09/25/02	LMP
n-Propylbenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
PCE — Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		09/25/02	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
Toluene	0.61	µg/l	0.3	0.999	1	J	09/25/02	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		09/25/02	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		09/25/02	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		09/25/02	LMP
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
TCE — Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		09/25/02	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		09/25/02	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.666	1	CSH	09/25/02	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		09/25/02	LMP
o-Xylene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
PID Surrogate Recovery (S)	99.8	%	-	-	1		09/25/02	LMP
HALL Surrogate Recovery (S)	121.	%	-	-	1		09/25/02	LMP

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

PROJECT NO.: EAGLECLEANER
REPORT NO. : 111830.14
DATE REC'D : 09/18/02
REPORT DATE: 09/30/02
PREPARED BY: JRS

Sample ID: **NMW1** Matrix: **GRDWTR** Sample Date/Time: **09/13/02 11:00** Lab No. **111841**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		09/25/02	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		09/25/02	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1	DUP	09/25/02	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		09/25/02	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		09/25/02	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1	CSH	09/25/02	LMP
Chloroform	<0.27	µg/l	0.27	0.899	1		09/25/02	LMP
Chloromethane	<0.29	µg/l	0.29	0.966	1	CSH SPH	09/25/02	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		09/25/02	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		09/25/02	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.966	1		09/25/02	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1	CSH	09/25/02	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.566	1		09/25/02	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.766	1		09/25/02	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.833	1		09/25/02	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		09/25/02	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1		09/25/02	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		09/25/02	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		09/25/02	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		09/25/02	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1	CSH	09/25/02	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1		09/25/02	LMP
n-Propylbenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Tetrachloroeth(yl)ene	46.8	µg/l	0.32	1.07	5		09/26/02	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
Toluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		09/25/02	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		09/25/02	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		09/25/02	LMP
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		09/25/02	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		09/25/02	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.666	1	CSH	09/25/02	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		09/25/02	LMP
o-Xylene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
PID Surrogate Recovery (S)	97.3	%	-	-	1		09/25/02	LMP
HALL Surrogate Recovery (S)	127.	%	-	-	1		09/25/02	LMP

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

PROJECT NO.: EAGLECLEANER
REPORT NO. : 111830.15
DATE REC'D : 09/18/02
REPORT DATE: 09/30/02
PREPARED BY: JRS

Sample ID: **TRIP BLANK-USF** Matrix: **WATER** Sample Date/Time: **09/13/02** Lab No. **111842**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Bromobenzene	<0.41	µg/l	0.41	1.37	1		09/25/02	LMP
Bromodichloromethane	<0.83	µg/l	0.83	2.76	1		09/25/02	LMP
n-Butylbenzene	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
sec-Butylbenzene	<0.33	µg/l	0.33	1.1	1	DUP	09/25/02	LMP
tert-Butylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Carbon Tetrachloride	<0.59	µg/l	0.59	1.96	1		09/25/02	LMP
Chlorobenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Dibromochloromethane	<0.87	µg/l	0.87	2.9	1		09/25/02	LMP
Chloroethane	<0.44	µg/l	0.44	1.47	1	CSH	09/25/02	LMP
Chloroform	<0.27	µg/l	0.27	0.899	1		09/25/02	LMP
Chloromethane	<0.29	µg/l	0.29	0.966	1	CSH SPH	09/25/02	LMP
2-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
4-Chlorotoluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dibromochloropropane(DBCP)	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
1,2-Dibromoethane(EDB)	<1.10	µg/l	1.1	3.66	1		09/25/02	LMP
1,2-Dichlorobenzene	<0.51	µg/l	0.51	1.7	1		09/25/02	LMP
1,3-Dichlorobenzene	<0.29	µg/l	0.29	0.966	1		09/25/02	LMP
1,4-Dichlorobenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Dichlorodifluoromethane	<0.46	µg/l	0.46	1.53	1	CSH	09/25/02	LMP
1,1-Dichloroethane	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
1,2-Dichloroethane	<0.17	µg/l	0.17	0.566	1		09/25/02	LMP
1,1-Dichloroeth(yl)ene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
cis-1,2-Dichloroeth(yl)ene	<0.23	µg/l	0.23	0.766	1		09/25/02	LMP
trans-1,2-Dichloroethylene	<0.39	µg/l	0.39	1.3	1		09/25/02	LMP
1,2-Dichloropropane	<0.25	µg/l	0.25	0.833	1		09/25/02	LMP
1,3-Dichloropropane	<0.67	µg/l	0.67	2.23	1		09/25/02	LMP
2,2-Dichloropropane	<1.50	µg/l	1.5	5.0	1		09/25/02	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		09/25/02	LMP
Isopropylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Isopropyl Ether	<0.46	µg/l	0.46	1.53	1		09/25/02	LMP
p-Isopropyltoluene	<0.32	µg/l	0.32	1.07	1		09/25/02	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Methylene Chloride	<0.51	µg/l	0.51	1.7	1	CSH	09/25/02	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1		09/25/02	LMP
n-Propylbenzene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
Tetrachloroeth(yl)ene	<0.32	µg/l	0.32	1.07	1		09/25/02	LMP
1,1,2,2-Tetrachloroethane	<0.61	µg/l	0.61	2.03	1		09/25/02	LMP
Toluene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
1,2,3-Trichlorobenzene	<0.33	µg/l	0.33	1.1	1		09/25/02	LMP
1,2,4-Trichlorobenzene	<0.47	µg/l	0.47	1.57	1		09/25/02	LMP
1,1,1-Trichloroethane	<0.42	µg/l	0.42	1.4	1		09/25/02	LMP
1,1,2-Trichloroethane	<0.5	µg/l	0.5	1.67	1		09/25/02	LMP
Trichloroeth(yl)ene	<0.36	µg/l	0.36	1.2	1		09/25/02	LMP
Trichlorofluoromethane	<0.7	µg/l	0.7	2.33	1		09/25/02	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		09/25/02	LMP
1,3,5-Trimethylbenzene	<0.31	µg/l	0.31	1.03	1		09/25/02	LMP
Vinyl Chloride	<0.2	µg/l	0.2	0.666	1	CSH	09/25/02	LMP
m- & p-Xylene	<0.62	µg/l	0.62	2.06	1		09/25/02	LMP
o-Xylene	<0.3	µg/l	0.3	0.999	1		09/25/02	LMP
PID Surrogate Recovery (S)	96.2	%	-	-	1		09/25/02	LMP
HALL Surrogate Recovery (S)	120.	%	-	-	1		09/25/02	LMP

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Environmental Compliance
22 North Pelham Street
P.O. Box 614
Rhinelander, WI 54501

Attn: Tim Baker

PROJECT NO.: EAGLECLEANER
REPORT NO. : 111830.16
DATE REC'D : 09/18/02
REPORT DATE: 09/30/02
PREPARED BY: JRS

Qualifier Descriptions

CSH	Check standard for this analyte exhibited a high bias. Sample results may also be biased high.
LCL	The laboratory control sample for this analyte exibited a low bias. Sample results may also be biased low.
DUP	Result of duplicate analysis in this quality assurance batch exceeds the limits for precision.
CSL	Check standard for this analyte exhibited a low bias. Sample results may also be biased low.
J	Estimated concentration below laboratory quantitation level.
SPH	Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.

REQUEST FOR SERVICES — USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: Tim Baker
Company: ECCI
Address: Box 614
Rhinelander WI 54501
Phone: (715) 365-5200
P. O. #
Project # Eagle Cleaners Quote #
Location Eagle River

BILL TO: (if different from Report To info)
Name: Eagle Cleaners
Company: c/o ECCI
Address: Box 614
Rhinelander WI 54501
Phone: (715) 365 5200

Sample Type
(Check all that apply)
- [x] Groundwater
- [ ] Wastewater
- [x] Soil/Solid
- [ ] Drinking Water
- [ ] Oil
- [ ] Vapor
- [ ] Other

Turnaround Time
- [x] Normal
- [ ] Rush (Pre-approved by Lab)

Date Needed
Approved By

ANALYTICAL REQUESTS
(use separate sheet if necessary)

1 MeOH pre 20 for soil
1 7.5 container w/ 2 vials w/ HCl

LAB USE ONLY	DATE	TIME	No. of Containers COMP	No. of Containers GRAB	SAMPLE ID	VOC	Dry wt				REMARKS
14111830	9/12/02	9:30a		2	GP-1 5-10'	✓	✓				soil
14111831	↓	9:40a		1	GP-1	✓					water
14111832		10:30a		2	GP-2 12'	✓	✓				soil
14111833		12:15p		2	GP-3	✓					water
14111834		2:50p		2	GP-5 13'	✓	✓				soil
14111835		5:00p		2	GP-7	✓					water
14111836		5:45p		2	GP-8 12'	✓	✓				soil
14111837		7:20p		2	GP-9 4'	✓	✓				soil
14111838	9/12/02	7:35p		2	GP-9	✓					water

Eagle Cle

Del'v: Hand (Comm)
Ship. Cont. OK (Y) N N/A
Samples leaking? Y (N) N/A
Seals OK? (Y) N N/A
Rec'd on ice? (Y) N N/A 3°C

Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature) Jeffrey E. Lynott, Tim Baker				
RELINQUISHED BY: (Signature) Jeffrey E. Lynott	DATE/TIME 9/17/02 8:35am	RECEIVED BY: (Signature)		
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)		
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LABORATORY BY: (Signature) [signature]	DATE/TIME 9-18-02 1040	

✓

REQUEST FOR SERVICES USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: Tim Baker
Company: ECCI
Address: Box 614
Rhinelander WI 54501
Phone: (715) 365-5200
P. O. #
Project # Eagle Cleaners Quote #
Location Eagle River

BILL TO: (if different from Report To info)
Name: Eagle Cleaners
Company: C/O ECCI
Address: Box 614
Rhinelander WI 54501
Phone: (715) 365 5200

Sample Type
(Check all that apply)
- [x] Groundwater
- [ ] Wastewater
- [ ] Soil/Solid
- [ ] Drinking Water
- [ ] Oil
- [ ] Vapor
- [ ] Other

Turnaround Time
- [x] Normal
- [ ] Rush (Pre-approved by Lab)

Date Needed
Approved By

ANALYTICAL REQUESTS
(use separate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	No. of Containers GRAB	SAMPLE ID	2 vials w/HCl VOC					REMARKS
14111839	9/13/02	9:25a		2	GP-10	✓					water
14111840	9/13/02	10:20a		2	GP-11	✓					water
14111841	9/13/02	11:00a		2	NAMW-1	✓					water
14111842					Trip						

TB049 B218014R
D50 8-8-02

Del'v: Hand (Comm.)
Ship. Cont. OK (Y) N N/A
Samples leaking? Y (N) N/A
Seals OK? (Y) N N/A
Rec'd on ice? (Y) N N/A 3°C

Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature) Tom Baker

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	9/17/02 8:30am	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LABORATORY BY: (Signature) DATE/TIME
		9-18-02 10:40

✓

SUBSURFACE ASSESSMENT RESULTS

EAGLE CLEANERS
EAGLE RIVER, WISCONSIN
MATRIX PROJECT NO. 169-MNPL-02

Prepared by: MATRIX Environmental, LLC.
8631 Jefferson Highway
Osseo, MN 55369
(763) 424-4803
fax: (763) 424-9452

September 20, 2002

SUBSURFACE ASSESSMENT RESULTS

EAGLE CLEANERS
EAGLE RIVER, WISCONSIN
MATRIX PROJECT NO. 169-MNPL-02

1.0 INTRODUCTION

MATRIX Environmental, LLC., was authorized by Mr. Tim Baker of Environmental Compliance Consultants, Inc. to perform a subsurface assessment at the Eagle Cleaner site located in Eagle River, Wisconsin. The goal of the assessment was to collect soil and ground water samples for on-site laboratory analysis of volatile organic compounds. Fieldwork was completed on September 13, 2002.

2.0 SCOPE OF WORK

The scope of services provided by MATRIX included the following:

- Advanced eleven (11) probes to depths ranging from fifteen (15) to twenty-five (25) feet bgs to collect soil samples at requested depth profiles for logging, screening, and sample collection (Appendix A).
- Analyzed four (4) soil samples in the field for volatile organic compounds (Table 1).
- Collected eleven (11) ground water samples from depths ranging from fifteen (15) to twenty-four (24) feet bgs for on-site laboratory analysis (Appendix A).
- Analyzed eleven (11) ground water samples for volatile organic compounds (Table 1).
- Analyzed two (2) monitoring well samples for volatile organic compounds (Table 1).
- Finished five (5) of the locations with 1" PVC to depths ranging from 16' bgs to 19' bgs. The wells were to be completed with flush grade pads and manhole covers by the client.
- Abandoned the remaining probe locations with bentonite grout according to Wisconsin Department of Natural Resources guidelines – WDNR Abandonment Forms (Appendix B).

3.0 ON-SITE CHEMICAL ANALYSIS

Samples were analyzed on-site and quantified for volatile organic compounds in accordance with US EPA Method 8021 modified. Samples were concentrated with an OI-Analytical Model 4560 purge and trap sample concentrator. The purge and trap sample concentrator is directly connected to a Hewlett Packard 5890 series II gas chromatograph. The samples were analyzed by a photo ionization detector (PID) and then split between a flame ionization detector (FID) and a halogen specific detector (XSD). The results of the chemical analysis are summarized in Table 1.

The following quality assurance/quality control measures were conducted to ensure the validity of the analytical results:

- A five point calibration curve for the method target compounds was established.
- A prepared standard was run to verify the calibration curve.
- A reagent water blank was run to assure the entire analytical system was free of interferences prior to sample analysis.
- A surrogate standard (4-bromofluorobenzene) was run with each sample to monitor retention time accuracy and concentration efficiency.
- A spike and spike duplicate were run to confirm precision and accuracy of the analytical system and to identify possible matrix effects.

4.0 GENERAL COMMENTS

The analysis and opinions expressed in this report are based upon data obtained from the samples collected at the indicated locations and from other information discussed in this report. This report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted practices. No warranties, expressed or implied are intended or made.

This report was prepared by:

MATRIX Environmental, LLC.

for Mike Jenson - Environmental Chemist — 9/20/02 Date

Dan Pipp - Operations Manager — 9/20/02 Date

TABLES

Matrix Environmental, LLC.

Mobile Laboratory Results – QA/QC
Modified EPA 8021/465F
Analytical Method: SW 846

Client:	**ECCI**	Date Analyzed:	**9/12-13/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPl-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Analyte	Spike % Recovery	Spike Duplicate % Recovery	Relative Percent Difference
9/12			
Vinyl Chloride	106	86	21%
1,1-Dichloroethene	79	75	5%
trans-1,2-Dichloroethene	76	75	1%
1,1-Dichloroethane	77	68	12%
cis-1,2-Dichloroethene	79	75	5%
1,1,1-Trichloroethane	74	74	0%
1,2-Dichloroethane	83	71	16%
Trichloroethene	86	87	1%
1,1,2-Trichloroethane	69	93	30%
Tetrachloroethene	74	74	0%

Analyte	Spike % Recovery	Spike Duplicate % Recovery	Relative Percent Difference
9/13			
Vinyl Chloride	93	99	6%
1,1-Dichloroethene	84	75	11%
trans-1,2-Dichloroethene	90	75	18%
1,1-Dichloroethane	95	80	17%
cis-1,2-Dichloroethene	102	85	18%
1,1,1-Trichloroethane	112	86	26%
1,2-Dichloroethane	105	105	0%
Trichloroethene	111	95	16%
1,1,2-Trichloroethane	94	91	3%
Tetrachloroethene	94	86	9%

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: Blank

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene	<	2	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		93%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPl-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-1

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene		5	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		101%		

[1] Method detection limit (MDL) study completed on 3/28/2002.
[2] Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
[3] <x represents less than the method reporting limit.
[4] Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-2

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene	<	2	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		105%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-3

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene	<	2	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		105%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-4

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene	<	2	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		103%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.
Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-5

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene	<	2	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		93%		

[1] Method detection limit (MDL) study completed on 3/28/2002.
[2] Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
[3] <x represents less than the method reporting limit.
[4] Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-6

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene	<	2	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		102%		

[1] Method detection limit (MDL) study completed on 3/28/2002.
[2] Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
[3] <x represents less than the method reporting limit.
[4] Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-7

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene	<	2	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		88%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-8

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene	<	2	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		94%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-9

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene	<	2	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		94%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: MW-1

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene		**1 J***	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		88%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/13/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: Blank

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene	<	2	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		86%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/13/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-10

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene		5	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		85%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/13/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-10 Duplicate

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene		5	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		93%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/13/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-11

Concentration Units: ug/L Dilution Factor: 1

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	10	10	6.385	Trans-1,3-Dichloropropene	<	2	2	0.850
Benzene	<	1	1	0.433	Ethyl benzene	<	2	2	0.530
Bromodichloromethane	<	2	2	0.719	Methyl ethyl ketone	<	10	10	4.920
1,2-Dibromoethane	<	5	5	1.993	Methylene Chloride	<	5	5	2.304
Bromoform	<	2	2	0.603	Methyl tert Butyl Ether	<	3	3	1.464
Carbon Tetrachloride	<	1	1	0.236	MIBK	<	5	5	1.549
Chlorobenzene	<	1	1	0.658	Napthalene	<	5	5	1.583
Chloroethane	<	2	2	0.832	Styrene	<	2	2	0.557
Chloroform	<	2	2	0.641	1,1,2,2-Tetrachloroethane	<	10	10	3.230
Dibromochloromethane	<	2	2	0.584	Tetrachloroethene	<	2	2	0.539
1,2-Dichlorobenzene	<	1	1	0.433	Tetrahydrofuran	<	5	5	1.777
1,3-Dichlorobenzene	<	2	2	0.584	Toluene	<	2	2	0.526
1,4-Dichlorobenzene	<	1	1	0.461	1,1,1-Trichloroethane	<	2	2	0.595
1,1-Dichloroethane	<	1	1	0.368	1,1,2-Trichloroethane	<	3	3	1.275
1,2-Dichloroethane	<	2	2	0.723	1,2,4-Trimethylbenzene	<	1	1	0.240
1,1-Dichloroethene	<	1	1	0.368	1,3,5-Trimethylbenzene	<	1	1	0.220
Cis-1,2-Dichloroethene	<	1	1	0.489	Trichloroethene	<	1	1	0.209
Trans-1,2-Dichloroethene	<	1	1	0.202	Vinyl Chloride	<	1	1	0.199
1,2-Dichloropropane	<	2	2	0.967	M+P-Xylene	<	2	2	0.909
Cis-1,3-Dichloropropene	<	2	2	0.767	O-Xylene	<	2	2	0.514
					Surrogate[4]				
					1,4-Bromofluorobenzene		91%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Water -Modified EPA 8021/MDH 465F
Analytical Method: SW 846 8021

Client:	**ECCI**	Date Analyzed:	**9/13/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: NMW-1

Concentration Units: ug/L Dilution Factor: 1

Analyte	*Result*[2]	*RL*	*MDL*[1]	*Analyte*	*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]< 10	10	6.385	Trans-1,3-Dichloropropene	< 2	2	0.850
Benzene	< 1	1	0.433	Ethyl benzene	< 2	2	0.530
Bromodichloromethane	< 2	2	0.719	Methyl ethyl ketone	< 10	10	4.920
1,2-Dibromoethane	< 5	5	1.993	Methylene Chloride	< 5	5	2.304
Bromoform	< 2	2	0.603	Methyl tert Butyl Ether	< 3	3	1.464
Carbon Tetrachloride	< 1	1	0.236	MIBK	< 5	5	1.549
Chlorobenzene	< 1	1	0.658	Napthalene	< 5	5	1.583
Chloroethane	< 2	2	0.832	Styrene	< 2	2	0.557
Chloroform	< 2	2	0.641	1,1,2,2-Tetrachloroethane	< 10	10	3.230
Dibromochloromethane	< 2	2	0.584	Tetrachloroethene	**41**	2	0.539
1,2-Dichlorobenzene	< 1	1	0.433	Tetrahydrofuran	< 5	5	1.777
1,3-Dichlorobenzene	< 2	2	0.584	Toluene	< 2	2	0.526
1,4-Dichlorobenzene	< 1	1	0.461	1,1,1-Trichloroethane	< 2	2	0.595
1,1-Dichloroethane	< 1	1	0.368	1,1,2-Trichloroethane	< 3	3	1.275
1,2-Dichloroethane	< 2	2	0.723	1,2,4-Trimethylbenzene	< 1	1	0.240
1,1-Dichloroethene	< 1	1	0.368	1,3,5-Trimethylbenzene	< 1	1	0.220
Cis-1,2-Dichloroethene	< 1	1	0.489	Trichloroethene	< 1	1	0.209
Trans-1,2-Dichloroethene	< 1	1	0.202	Vinyl Chloride	< 1	1	0.199
1,2-Dichloropropane	< 2	2	0.967	M+P-Xylene	< 2	2	0.909
Cis-1,3-Dichloropropene	< 2	2	0.767	O-Xylene	< 2	2	0.514
				Surrogate[4]			
				1,4-Bromofluorobenzene	93%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Soil - Modified EPA 8021/Modified MDH 465F
Analytical Method: SW 846 5035/8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-1 @ 5'-10'

Concentration Units: mg/kg Dilution Factor: 20

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	1.00	1.00	0.640	Trans-1,3-Dichloropropene	<	0.20	0.20	0.085
Benzene	<	0.10	0.10	0.043	Ethyl benzene	<	0.20	0.20	0.053
Bromodichloromethane	<	0.20	0.20	0.072	Methyl ethyl ketone	<	1.00	1.00	0.492
1,2-Dibromoethane	<	0.50	0.50	0.199	Methylene Chloride	<	0.20	0.20	0.230
Bromoform	<	0.20	0.20	0.060	Methyl tert Butyl Ether	<	0.30	0.30	0.146
Carbon Tetrachloride	<	0.10	0.10	0.024	MIBK	<	0.50	0.50	0.155
Chlorobenzene	<	0.20	0.20	0.064	Napthalene	<	0.50	0.50	0.158
Chloroethane	<	0.02	0.02	0.083	Styrene	<	0.20	0.20	0.056
Chloroform	<	0.10	0.10	0.064	1,1,2,2-Tetrachloroethane	<	1.00	1.00	0.323
Dibromochloromethane	<	0.20	0.20	0.058	Tetrachloroethene	<	0.20	0.20	0.054
1,2-Dichlorobenzene	<	0.20	0.20	0.043	Tetrahydrofuran	<	0.50	0.50	0.177
1,3-Dichlorobenzene	<	0.20	0.20	0.058	Toluene	<	0.20	0.20	0.053
1,4-Dichlorobenzene	<	0.10	0.10	0.046	1,1,1-Trichloroethane	<	0.20	0.20	0.060
1,1-Dichloroethane	<	0.10	0.10	0.037	1,1,2-Trichloroethane	<	0.30	0.30	0.128
1,2-Dichloroethane	<	0.20	0.20	0.072	1,2,4-Trimethylbenzene	<	0.10	0.10	0.024
1,1-Dichloroethene	<	0.10	0.10	0.037	1,3,5-Trimethylbenzene	<	0.10	0.10	0.022
Cis-1,2-Dichloroethene	<	0.10	0.10	0.049	Trichloroethene	<	0.10	0.10	0.021
Trans-1,2-Dichloroethene	<	0.10	0.10	0.020	Vinyl Chloride	<	0.50	0.50	0.020
1,2-Dichloropropane	<	0.20	0.20	0.097	M+P-Xylene	<	0.20	0.20	0.091
Cis-1,3-Dichloropropene	<	0.20	0.20	0.077	O-Xylene	<	0.20	0.20	0.091
					Surrogate[4]				
					1,4-Bromofluorobenzene		84%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Soil samples are reported in milligrams per kilogram (mg/kg) or parts per million (ppm) and are wet weight results.
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Soil - Modified EPA 8021/Modified MDH 465F
Analytical Method: SW 846 5035/8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-1 @ 10'-15'

Concentration Units: mg/kg Dilution Factor: 20

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	1.00	1.00	0.640	Trans-1,3-Dichloropropene	<	0.20	0.20	0.085
Benzene	<	0.10	0.10	0.043	Ethyl benzene	<	0.20	0.20	0.053
Bromodichloromethane	<	0.20	0.20	0.072	Methyl ethyl ketone	<	1.00	1.00	0.492
1,2-Dibromoethane	<	0.50	0.50	0.199	Methylene Chloride	<	0.20	0.20	0.230
Bromoform	<	0.20	0.20	0.060	Methyl tert Butyl Ether	<	0.30	0.30	0.146
Carbon Tetrachloride	<	0.10	0.10	0.024	MIBK	<	0.50	0.50	0.155
Chlorobenzene	<	0.20	0.20	0.064	Napthalene	<	0.50	0.50	0.158
Chloroethane	<	0.02	0.02	0.083	Styrene	<	0.20	0.20	0.056
Chloroform	<	0.10	0.10	0.064	1,1,2,2-Tetrachloroethane	<	1.00	1.00	0.323
Dibromochloromethane	<	0.20	0.20	0.058	Tetrachloroethene		**0.80**	0.20	0.054
1,2-Dichlorobenzene	<	0.20	0.20	0.043	Tetrahydrofuran	<	0.50	0.50	0.177
1,3-Dichlorobenzene	<	0.20	0.20	0.058	Toluene	<	0.20	0.20	0.053
1,4-Dichlorobenzene	<	0.10	0.10	0.046	1,1,1-Trichloroethane	<	0.20	0.20	0.060
1,1-Dichloroethane	<	0.10	0.10	0.037	1,1,2-Trichloroethane	<	0.30	0.30	0.128
1,2-Dichloroethane	<	0.20	0.20	0.072	1,2,4-Trimethylbenzene	<	0.10	0.10	0.024
1,1-Dichloroethene	<	0.10	0.10	0.037	1,3,5-Trimethylbenzene	<	0.10	0.10	0.022
Cis-1,2-Dichloroethene	<	0.10	0.10	0.049	Trichloroethene	<	0.10	0.10	0.021
Trans-1,2-Dichloroethene	<	0.10	0.10	0.020	Vinyl Chloride	<	0.50	0.50	0.020
1,2-Dichloropropane	<	0.20	0.20	0.097	M+P-Xylene	<	0.20	0.20	0.091
Cis-1,3-Dichloropropene	<	0.20	0.20	0.077	O-Xylene	<	0.20	0.20	0.091
					Surrogate[4]				
					1,4-Bromofluorobenzene		108%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Soil samples are reported in milligrams per kilogram (mg/kg) or parts per million (ppm) and are wet weight results.
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.
Mobile Laboratory Results
Soil - Modified EPA 8021/Modified MDH 465F
Analytical Method: SW 846 5035/8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-1 @ 15'-20'
Concentration Units: mg/kg Dilution Factor: 20

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	1.00	1.00	0.640	Trans-1,3-Dichloropropene	<	0.20	0.20	0.085
Benzene	<	0.10	0.10	0.043	Ethyl benzene	<	0.20	0.20	0.053
Bromodichloromethane	<	0.20	0.20	0.072	Methyl ethyl ketone	<	1.00	1.00	0.492
1,2-Dibromoethane	<	0.50	0.50	0.199	Methylene Chloride	<	0.20	0.20	0.230
Bromoform	<	0.20	0.20	0.060	Methyl tert Butyl Ether	<	0.30	0.30	0.146
Carbon Tetrachloride	<	0.10	0.10	0.024	MIBK	<	0.50	0.50	0.155
Chlorobenzene	<	0.20	0.20	0.064	Napthalene	<	0.50	0.50	0.158
Chloroethane	<	0.02	0.02	0.083	Styrene	<	0.20	0.20	0.056
Chloroform	<	0.10	0.10	0.064	1,1,2,2-Tetrachloroethane	<	1.00	1.00	0.323
Dibromochloromethane	<	0.20	0.20	0.058	Tetrachloroethene	<	0.20	0.20	0.054
1,2-Dichlorobenzene	<	0.20	0.20	0.043	Tetrahydrofuran	<	0.50	0.50	0.177
1,3-Dichlorobenzene	<	0.20	0.20	0.058	Toluene	<	0.20	0.20	0.053
1,4-Dichlorobenzene	<	0.10	0.10	0.046	1,1,1-Trichloroethane	<	0.20	0.20	0.060
1,1-Dichloroethane	<	0.10	0.10	0.037	1,1,2-Trichloroethane	<	0.30	0.30	0.128
1,2-Dichloroethane	<	0.20	0.20	0.072	1,2,4-Trimethylbenzene	<	0.10	0.10	0.024
1,1-Dichloroethene	<	0.10	0.10	0.037	1,3,5-Trimethylbenzene	<	0.10	0.10	0.022
Cis-1,2-Dichloroethene	<	0.10	0.10	0.049	Trichloroethene	<	0.10	0.10	0.021
Trans-1,2-Dichloroethene	<	0.10	0.10	0.020	Vinyl Chloride	<	0.50	0.50	0.020
1,2-Dichloropropane	<	0.20	0.20	0.097	M+P-Xylene	<	0.20	0.20	0.091
Cis-1,3-Dichloropropene	<	0.20	0.20	0.077	O-Xylene	<	0.20	0.20	0.091
					Surrogate[4]				
					1,4-Bromofluorobenzene		106%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Soil samples are reported in milligrams per kilogram (mg/kg) or parts per million (ppm) and are wet weight results.
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

Matrix Environmental, LLC.

Mobile Laboratory Results
Soil - Modified EPA 8021/Modified MDH 465F
Analytical Method: SW 846 5035/8021

Client:	**ECCI**	Date Analyzed:	**9/12/02**
Project Name:	**Eagle Cleaners**	MATRIX Project #:	**169-MNPI-02**
Project Location:	**Eagle River, WI**	Client Project #:	

Sample ID: GP-2 @ 12'

Concentration Units: mg/kg Dilution Factor: 20

Analyte		*Result*[2]	*RL*	*MDL*[1]	*Analyte*		*Result*[2]	*RL*	*MDL*[1]
Acetone	[3]<	1.00	1.00	0.640	Trans-1,3-Dichloropropene	<	0.20	0.20	0.085
Benzene	<	0.10	0.10	0.043	Ethyl benzene	<	0.20	0.20	0.053
Bromodichloromethane	<	0.20	0.20	0.072	Methyl ethyl ketone	<	1.00	1.00	0.492
1,2-Dibromoethane	<	0.50	0.50	0.199	Methylene Chloride	<	0.20	0.20	0.230
Bromoform	<	0.20	0.20	0.060	Methyl tert Butyl Ether	<	0.30	0.30	0.146
Carbon Tetrachloride	<	0.10	0.10	0.024	MIBK	<	0.50	0.50	0.155
Chlorobenzene	<	0.20	0.20	0.064	Napthalene	<	0.50	0.50	0.158
Chloroethane	<	0.02	0.02	0.083	Styrene	<	0.20	0.20	0.056
Chloroform	<	0.10	0.10	0.064	1,1,2,2-Tetrachloroethane	<	1.00	1.00	0.323
Dibromochloromethane	<	0.20	0.20	0.058	Tetrachloroethene	<	0.20	0.20	0.054
1,2-Dichlorobenzene	<	0.20	0.20	0.043	Tetrahydrofuran	<	0.50	0.50	0.177
1,3-Dichlorobenzene	<	0.20	0.20	0.058	Toluene	<	0.20	0.20	0.053
1,4-Dichlorobenzene	<	0.10	0.10	0.046	1,1,1-Trichloroethane	<	0.20	0.20	0.060
1,1-Dichloroethane	<	0.10	0.10	0.037	1,1,2-Trichloroethane	<	0.30	0.30	0.128
1,2-Dichloroethane	<	0.20	0.20	0.072	1,2,4-Trimethylbenzene	<	0.10	0.10	0.024
1,1-Dichloroethene	<	0.10	0.10	0.037	1,3,5-Trimethylbenzene	<	0.10	0.10	0.022
Cis-1,2-Dichloroethene	<	0.10	0.10	0.049	Trichloroethene	<	0.10	0.10	0.021
Trans-1,2-Dichloroethene	<	0.10	0.10	0.020	Vinyl Chloride	<	0.50	0.50	0.020
1,2-Dichloropropane	<	0.20	0.20	0.097	M+P-Xylene	<	0.20	0.20	0.091
Cis-1,3-Dichloropropene	<	0.20	0.20	0.077	O-Xylene	<	0.20	0.20	0.091
					Surrogate[4]				
					1,4-Bromofluorobenzene		106%		

1 Method detection limit (MDL) study completed on 3/28/2002.
2 Soil samples are reported in milligrams per kilogram (mg/kg) or parts per million (ppm) and are wet weight results.
3 <x represents less than the method reporting limit.
4 Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
I Not quantifiable due to sample interference.
J Estimated value outside of calibration range.
J* Reported value above MDL but below RL.
B Compound found in blank.
* Low surrogate recovery due to sample matrix effects.

APPENDIX A

STANDARD OPERATING PROCEDURES

MACRO-CORE® SOIL SAMPLER

STANDARD OPERATING PROCEDURE

TECHNICAL BULLETIN NO. 96.001

PREPARED: JANUARY 8, 1996; REVISED:

1.0 OBJECTIVE

The objective of this procedure is to collect a soil sample at depth and recover it for visual inspection and/or chemical analysis.

2.0 BACKGROUND

2.1 Definitions

- **Geoprobe®**: A vehicle-mounted hydraulically-powered soil probing machine that uses static force and percussion to advance small diameter sampling tools into the subsurface for collecting soil core, soil gas, or ground water samples.

- **Macro-Core® (MC) Soil Sampler:** A 48-inch long X 2.0-inch diameter (1219 mm X 51 mm) soil sampler capable of recovering a sample that measures up to 1302-ml in volume, as a 45-inch X 1.5-inch (1143 mm X 38 mm) core contained inside a removable liner. The Macro-Core® Sampler may be used for open-tube as well as closed-piston sampling.

- **Liner:** A 46-inch long X 1.75-inch (1168 mm X 44 mm) diameter removable/replaceable, thin-walled tube inserted inside the Macro-Core® Sampler tube for containing and storing soil samples. Liner materials include stainless steel, Teflon®, and clear plastic (PETG).

2.2 Discussion

In this procedure, the assembled Macro-Core Sampler is connected to the leading end of a Geoprobe brand probe rod and driven into the subsurface using a Geoprobe machine. Additional probe rods are connected in succession to advance the sampler to depth. The Macro-Core Sampler may be used as either an open-tube or closed-piston sampler.

The simplest and most common use of the Macro-Core Sampler is an open-tube sampler. In this method, coring starts at the ground surface with an open-ended sampler. From the ground surface, the Macro-Core Sampler is advanced 48 inches (1219 mm) and retrieved from the hole with the first soil core. In stable soils, the open-tube sampler is inserted

back down the same hole to obtain the next core.

In unstable soils that tend to collapse into the core hole, the Macro-Core Sampler can be equipped with a closed-piston point assembly. This assembly locks into the cutting shoe and prevents soil from entering the sampler as it is advanced in the existing hole.

The Macro-Core Closed-Piston Sampler is not designed to be driven through undisturbed soil. Soil is first removed to the sampling depth with an open-tube sampler, or a pilot hole may be made with a Macro-Core Pre-Probe. A closed-piston tip is then installed and the sampler is inserted or driven back down the same hole. When the leading end of the sampler reaches the top of the next sampling interval, the piston tip is unlocked using extension rods inserted down the inside of the probe rods.

Once the piston tip is released, the sampler is simply driven another 48 inches (1219 mm). Soil entering the sampler pushes the piston assembly to the top of the sample liner where it is retrieved upon removal of the soil core and liner.

3.0 REQUIRED EQUIPMENT

The following equipment is required to recover soil core samples using the Geoprobe Macro-Core® Sampler and driving system (See Attached Figure).

3.1 Macro-Core Sampler Parts

MC Drive Head	1
MC Sampler Tube	1
MC Cutting Shoe	1
MC Piston Bolt	1
MC Piston Washer	1
MC Locking Ring Assembly	2
MC Piston Point Assembly	1
MC Piston Release Rod	1
MC Core Catcher(optional)	1
MC Spacer Ring	1

3.2 Geoprobe Tools

• Probe Rod (48", 36", 24", or 12")	Variable
• Drive Cap	1
• Pull Cap	1
• Extension Rod	Variable
• Extension Rod Coupler	Variable
• Extension Rod Handle	1

4.0 OPERATION

4.1 Decontamination

Before and after each use, thoroughly clean all parts of the soil sampling system according to project specific requirements. A clean, new liner is recommended for each use. Parts should also be inspected for wear or damage at this time.

4.2 Open-Tube Sampler Assembly

1a. **With MC Core Catcher.** Place the open end of a MC Core Catcher over the threaded end of a MC Cutting Shoe. Apply pressure to the core catcher until it snaps into the machined groove on the cutting shoe.

1b. **Without MC Core Catcher.** Push the base of a MC Spacer Ring onto the threaded end of a cutting shoe until it snaps into place. Either a core catcher or a spacer ring is required with all Macro-Core liners.

2. Thread the cutting shoe into one end of a MC Sampler Tube. Tighten until the cutting shoe is completely threaded into the sampler.

3. Insert the appropriate liner into the sampler tube.

4. Connect a MC Drive Head to the top of the sampler tube. Tighten the cutting shoe using a wrench.

4.3 Closed-Piston Sampler Assembly

1. Install an O-ring in the machined groove on the MC Piston Point.

2. Place MC Piston Washer on the MC Piston Bolt radius side away from the bolt head.

3. Assemble the MC Piston Assembly according to Geoprobe Instructions.

4. Slide the assembled point into a MC Cutting Shoe. The point assembly should be placed so that one half of the set screw protrudes from under the lower cutting edge of the cutting shoe.

5. Tighten the piston bolt using a wrench.

6a. **With MC Core Catcher.** Place the open end of an MC Core Catcher over the threaded end of a MC Cutting Shoe. Apply pressure to the core catcher until it

snaps into the machined groove on the cutting shoe.

6b. **Without MC Core Catcher**. Push the base of a MC Spacer Ring onto the threaded end of a cutting shoe until it snaps into place. Either a core catcher or a spacer ring is required with all Macro-Core liners.

7. Thread the cutting shoe into one end of a MC Sampler Tube. Tighten until the cutting shoe is completely threaded into the sampler.

8. Insert the appropriate liner into the sampler tube.

9. Connect an MC Drive Head to the top of the sampler tube. Securely tightly, the cutting shoe with a wrench.

4.4 Pilot Hole

A pilot hole is appropriate when the surface to be penetrated contains gravel, asphalt, hard sands, or rubble. Pre-probing can prevent unnecessary wear on the sampling tools. A MC Pre-Probe may be used for this purpose. The pilot hole should be made only to a depth above the sampling interval.

4.5 Open-Tube Sampling

For open-tube sampling, the soil must be removed from above the desired core depth. This is accomplished by driving a Macro Core Sampler 48-inches (1219mm) the length of one sampler tube, into the soil from the ground surface. The first soil core is retrieved and the sampler is driven down the same hole to remove the next 48-inch (1219 mm) core. This cycle is repeated until the desired sampling depth is reached.

The cutting shoe is tapered to minimize the amount of soil scraped from the walls when inserting the sampler down an existing hole. When sampling non-cohesive soils, however, the hole may collapse as the sampler is retrieved. This collapsed soil enters the sampler as it is driven back down the hole for the next soil core, resulting in a non-representative sample. The user may elect to use the Closed-Piston Macro-Core Sampler under such conditions.

1. Use an assembled open-tube sampler as described in section 4.3. Attach a drive cap to the sampler head.

2. Drive the assembly into the subsurface until the drive head of the sample tube is just above the ground surface.

3. To sample continuous sampling intervals, push a sampler down the previously

opened hole until the top of the next sampling interval is reached. Drive the probe string another 48-inches (1219 mm) to fill the sampler with soil. An open-tube sampler may be used for consecutive sampling or, if soil slough is expected, a closed-piston sampler is available.

4.6 Closed-Piston Sampling

1. Use an assembled closed-piston sampler. Attach a drive cap to the sampler drive head.

2. Place the sampler point in the previously opened hole. Drive the sampler to the desired sampling interval.

3. Move the probe unit away from the probe rods to allow for room to work.

4. Remove the drive cap and insert a MC Piston Release Rod down the inside of the probe rods: use extension rods as needed.

5. Attach an Extension Rod Handle to the top of the extension rod and slowly rotate clockwise. The release rod will drop into the groove in the piston point. Rotate the handle clockwise approximately four revolutions. The drive point assembly is now released.

6. Remove the release rod and extension rods.

7. Add a probe rod, if needed, attach a drive cap, reposition the probe unit. Drive the sampler another 48 inches (1219 mm) to fill the liner with soil.

4.7 Sampler Retrieval

1. Attach a pull cap to the top probe rod. Close the hammer latch over the pull cap and pull the tool string up one rod length by actuating the probe controls.

2. Remove the rod and repeat Step 1 until the sampler drive head is just above the ground.

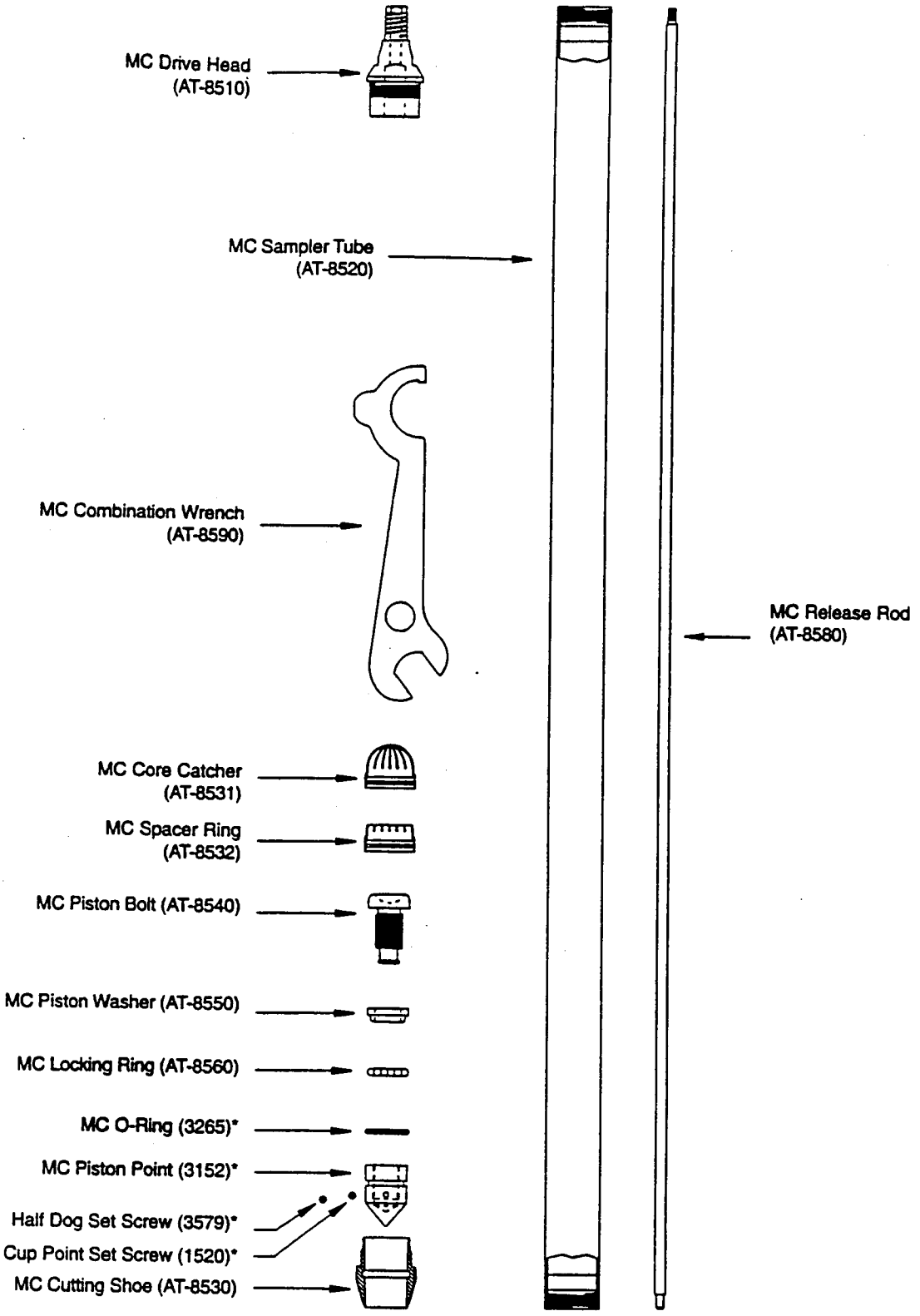
3. Put the drive cap on the sampler drive head. Pull the sampler out of the ground by using the probe unit.

4.8 Soil Core Recovery

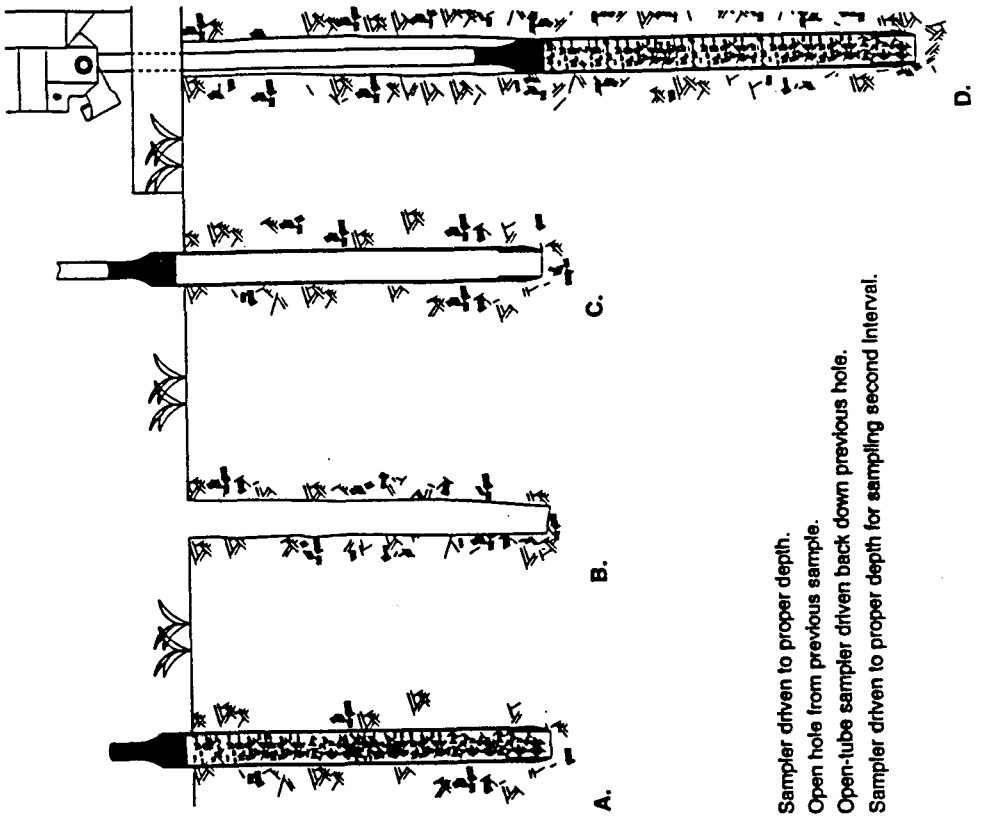
The soil sample is easily removed from the Macro-Core Sampler by unscrewing the cutting shoe and pulling out the liner. A few sharp taps on the cutting shoe will often sufficiently loosen the threads to allow removal by hand. If needed, a wrench may used to unscrew the cutting shoe. With the cutting shoe removed simply pull the liner and soil

core from the sampler tube.

If the closed-piston sampler is used, the piston assembly is now retrieved from the end of the liner. Secure the soil sample by placing a vinyl end cap on each end of the liner. Undisturbed soil samples can be obtained from Teflon® and PETG liners by splitting the liner. Clamp one end of the liner and make a longitudinal cut, exposing the soil core.

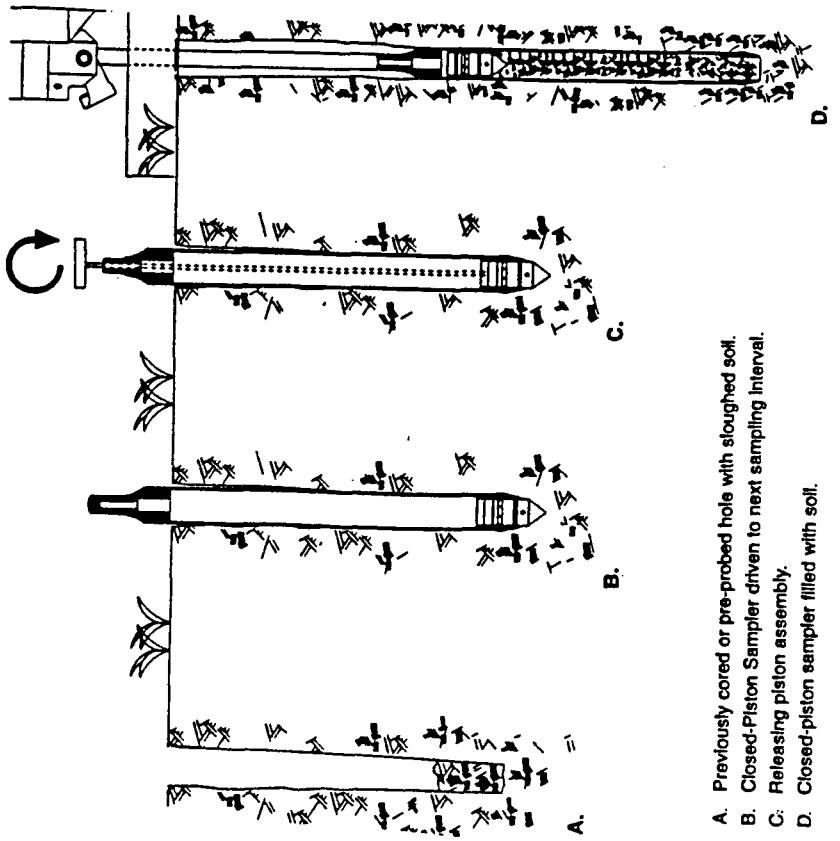


Macro Core Soil Sampler Parts



A. Sampler driven to proper depth.
B. Open hole from previous sample.
C. Open-tube sampler driven back down previous hole.
D. Sampler driven to proper depth for sampling second interval.

Phases of Macro-Core Open Tube Sampling



A. Previously cored or pre-probed hole with sloughed soil.
B. Closed-Piston Sampler driven to next sampling interval.
C. Releasing piston assembly.
D. Closed-piston sampler filled with soil.

Phases of Macro-Core Closed Piston Soil Sampling

SCREENED POINT 15 GROUND WATER SAMPLER

MATRIX STANDARD OPERATING PROCEDURE

TECHNICAL BULLETIN NO. 96.002

PREPARED: JANUARY 08, 1996

REVISED: DECEMBER 30, 1998

1.0 OBJECTIVE

The objective of this procedure is to drive a sealed stainless steel or PVC screen to depth, deploy the screen, obtain a representative water sample from the screen interval, and grout the probe hole during abandonment. The Screen Point 15 Ground Water Sampler enables the operator to conduct grouting that meets American Society for Testing and Materials (ASTM) Method D 5299 requirements for decommissioning wells and borings for environmental activities (ASTM 1993).

2.0 BACKGROUND

2.1 Definitions

- **Geoprobe®**: A vehicle-mounted hydraulically-powered soil probing machine that utilizes static force and percussion to advance small diameter sampling tools into the subsurface for collecting soil core, soil gas, or ground water samples.

- **Screened Point 15 Ground Water Sampler:** The assembled Screen Point 15 Sampler is 1.5-inch O.D. X 52-inch overall length. This sampler features a 41-inch stainless steel or PVC screen. The device is also useful for measurement of piezometric levels.

- **Casing Puller:** An assembly which makes it possible to retract the sampler string with extension rods protruding from the top of the probe rods.

- **Rod Grip Pull System:** An attachment mounted on the Geoprobe Hammer which enables the operator to retract the sampler string with the extension rods protruding from the top of the probe rods. The rod grip pull system utilizes hammer support brackets which greatly enhance probe unit durability. This system is preferred over the casing puller system.

2.2 Discussion

In this procedure, the assembled Screen Point 15 Sampler threads onto the leading end of a Geoprobe probe rod and is driven into the subsurface using a Geoprobe machine. Additional probe rods are connected in succession to advance the sampler to depth. While the Screen Point Sampler is being driven to the desired sampling depth, it is kept sealed by O-ring connections placed at critical locations on the assembly. This eliminates the threat of subsurface fluids entering the screen before deployment and ensures sample integrity.

Once at the desired sampling interval, extension rods are sent downhole until the leading rod contacts the bottom of the sampler screen. The tool string is then retracted approximately 44 inches while the screen is held in place with the extension rods. As the tool string is retracted, the expendable point is released from the sampler sheath. An O-ring on the screen head maintains the seal at the top of the screen. As a result, any liquid entering the sampler during screen deployment must first pass through the screen. The tool string and sheath may be retracted the full length of the screen or as little as a few inches if a small sampling interval is desired.

Ground water samples are recovered by using polyethylene tubing and a vacuum pump or a check valve with check ball to recover water collected in the sampler screen. The standard slot size of the screen of this sampler is between 0.004-inches and 0.010-inches and 41 inches in length. This sampler will allow the user to collect representative samples in a short time period due to its large surface area.

A removable plug, located in the bottom of the ground water screen, allows the operator to grout as the sampler is extracted. This ensures proper abandonment of the probe hole.

3.0 REQUIRED EQUIPMENT

Equipment required to successfully recover water samples using the Screen Point 15 Groundwater Sampler is listed below (See Attached Figure).

3.1 Screen Point Sampler Parts

O-ring Service Kit	1
Sampler Sheath	1
Drive Head	1
Stainless Steel/PVC Screen	1
Screen Push Adapter	1
Grout Plug Push Adapter	1
Grout Plugs, Teflon®/PVC	25
Expendable Drive Points	25

3.2 Geoprobe Tools

Probe Rod (48", 36", 24", or 12")	Variable
Drive Cap	1
Pull Cap	1
Split Pull Cap (Optional)	1
Extension Rod	Variable
Extension Rod Coupler	Variable
Extension Rod Handle	1
Extension Rod Jig	1

3.3 Optional

Tubing Bottom Check Valve	2
Check Balls for Check Valve	25
Polyethylene Tubing, 1/4-inch I.D.	Variable

4.0 OPERATION

4.1 Basic Operation

The Screen Point 15 Ground Water Sampler uses a stainless steel or PVC screen which is encased in an alloy steel sampler sheath. An expendable drive point is placed in the lower end of the sheath while a drive head is attached to the top. O-rings on the drive head and expendable point provide a water-tight sheath.

Once the sampling depth is reached, extension rods equipped with a screen push adapter are inserted down the inside of the probe rods. The probe rods attached to the sampler sheath are retracted, with the extension rods in place, approximately 44 inches to allow the sampler screen to be pushed out into the formation. At this point the sampler is ready to collect a ground water sample. When sampling is complete, a removable plug in the bottom of the screen allows for grouting below the sampler as the tool string is retrieved.

4.2 Decontamination and Preparation of Parts

In order to assemble the water sampler properly and to take representative water samples, all parts need to be cleaned thoroughly using deionized water and Alconox®. All soil adhering to the parts should be removed by brushing or pressure washing. Finally, all parts should be rinsed with clean, contaminant-free water and allowed to dry before they are assembled.

Check all O-rings in the sampler assembly for damage and/or wear. All worn O-rings should be replaced. It is more efficient and cost effective to change O-rings rather than collecting a non-representative sample or invalid data.

4.3 Assembly

a. Install an O-ring on an expendable drive point. Firmly seat the expendable point in the necked end of the sampler sheath.

b. Place a grout plug (PVC or Teflon®) in the lower end of either a wound-wire stainless steel or PVC screen. When using a stainless steel screen, install an O-ring in the groove on the upper end of the screen. Slide the screen inside of the sampler sheath with the grout plug towards the bottom. Ensure that the expendable point was not dislodged by the placement of the screen.

c. Install a bottom O-ring on a drive head. Thread the drive head onto the sampler sheath. Attach a drive cap to the drive head.

d. Sampler assembly is complete.

4.4 Probing

a. Drive the Screen Point 15 Ground Water sampler to depth. Use probe rods as needed. Approximately 12 inches of the last probe must extend above the ground surface to allow attachment of the puller assembly.

b. Remove the drive cap and retract the probe derrick away from the tool string.

4.5 Screen Deployment

Once the Screen Point 15 Ground Water Sampler has been driven to the base of the desired sampling interval, the probe rods are retracted a distance of 44 inches and the screen is pushed out into the formation. The following procedures are employed to deploy the screen:

a. Thread the screen push adapter on an extension rod. Lower the extension rod inside the probe rods. Add extension rods, as needed, until the adapter contacts the bottom of the screen.

b. Position the probe assembly into the pulling position.

Note: In this section, "Puller" will refer to either the Rod Grip Puller or the Casing Puller. The operator can choose which system they want to use.

c. Ensure that at least 48 inches of extension rod protrudes from the probe rod. Thread an extension rod handle on the top extension.

d. Retract probe rods and sampler sheath while physically holding the screen in place with the extension rods. Raise the hammer and puller approximately 44 inches. At this point, the screen head will contact the necked portion of the sampler sheath and the extension rods will rise with the probe rods. The screen is now deployed.

g. Lower the hammer assembly and remove the puller assembly. Remove the top extension rod and handle, pull cap, casing pull plate, and top probe rod. Finally, extract all extension rods.

h. Ground water samples can now be collected.

4.6 Sampling, General Considerations

Ground water samples are obtaining using a tubing system that is inserted within the deployed screen and samples are pumped to the surface using either a vacuum pump or peristaltic pump. Another method of sampling the groundwater is by use of a check valve and check ball inside the polyethylene tubing. The check valve is attached to one end of the tubing and inserted down the casing until it is immersed in groundwater. Water is pumped through the tubing and to the ground surface by oscillating the tubing up and down. The ball will seat in the check valve and trap the sample in the tubing. Collect the sample by withdrawing and draining the tubing.

4.7 Abandonment Grouting

The Screen Point 15 Sampler can meet ASTM D 5299 requirements for abandoning environmental wells or borings when grouting is conducted properly. A removable grout plug makes it possible to deploy tubing through the bottom of the screen. Grout is then pumped into the open hole as the sampler is withdrawn. The following procedure is can be used as proper abandonment of a probe hole.

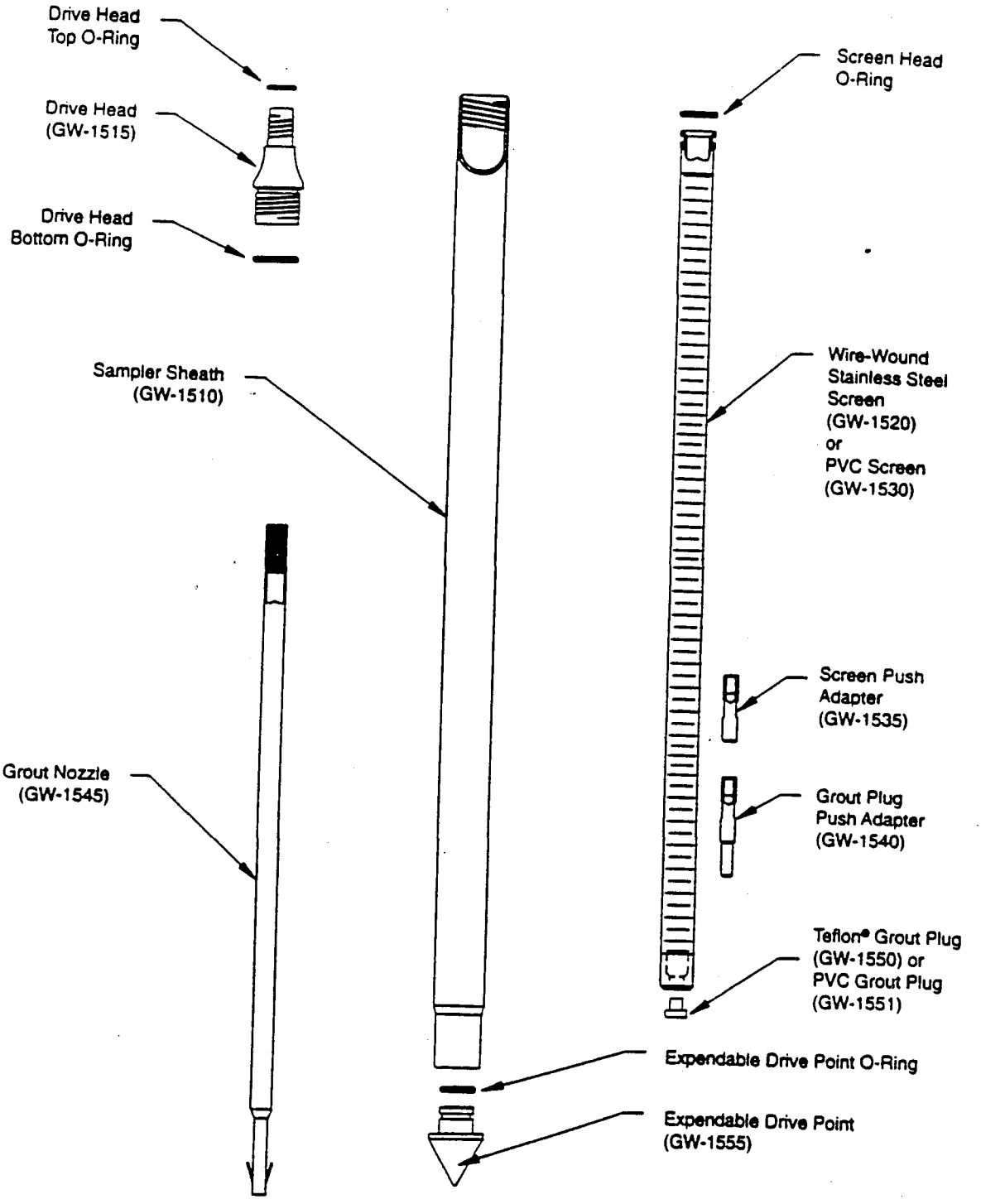
a. Use the puller on the tool string and place a split pull cap on the top probe rod. Raise the tool string approximately 4 to 6 inches to allow for removal of grout plug. Remove the pull cap.

b. Thread the grout plug adapter onto an extension rod. Insert the adapter and extension rod inside the probe rod string. Add extension rods until the grout plug adapter contacts the bottom of the screen. Apply pressure to the extension rods to release the grout plug. When the grout plug is pushed from the screen, remove all extension rods.

c. Connect a grout nozzle to polyethylene tubing and insert into the probe rods and down through the bottom of the screen. Once the grout nozzle is set through the bottom of the screen, pull gently on the tubing to ensure that it is locked in place.

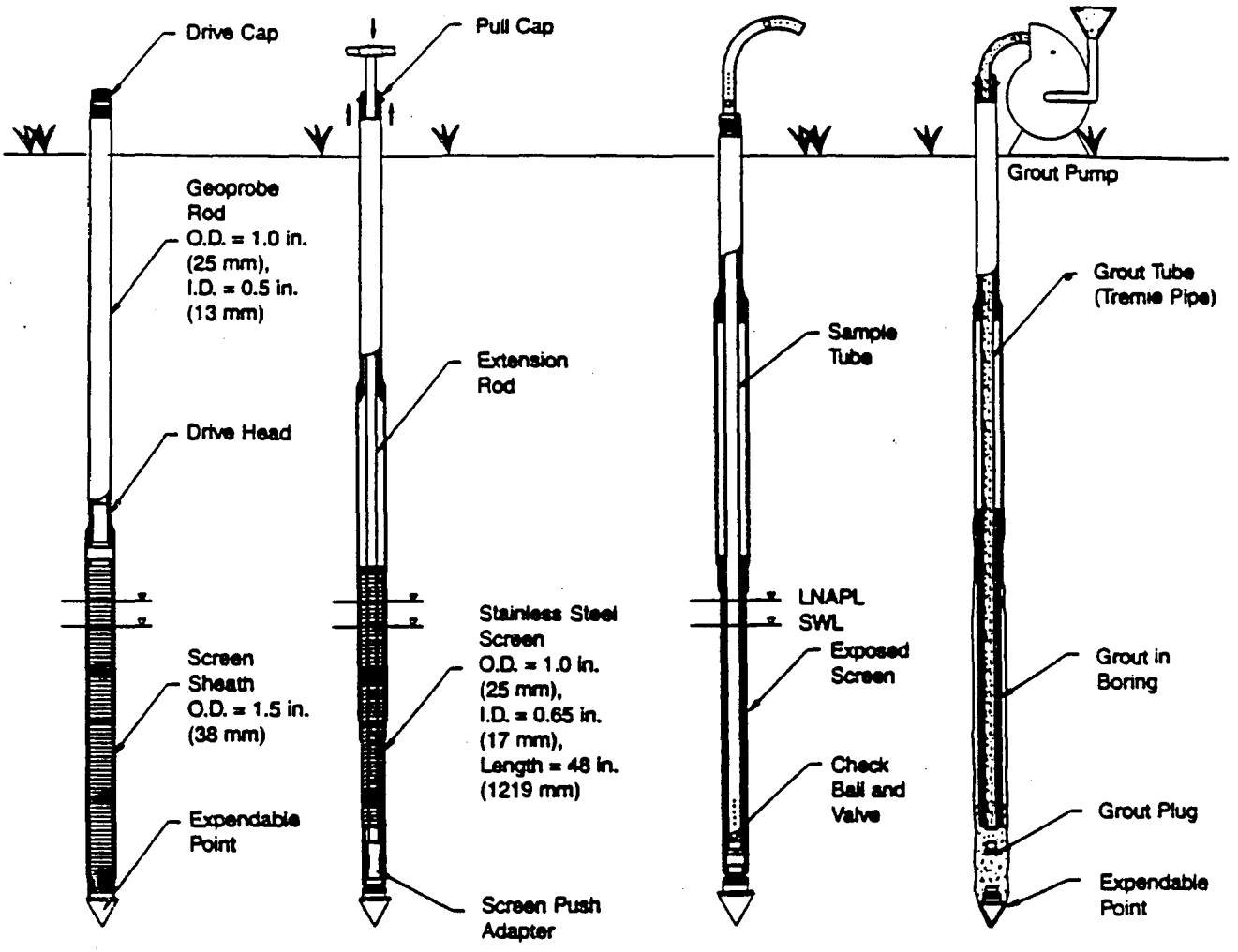
d. Attach a split cap to the top probe rod. Position the polyethylene tubing in the pull cap slot taking care not to pinch or bind the tubing. Operate the grout pump while pulling the probe rod string. Remove the split pull cap and unscrew the probe rod. Slide the rod over the tubing and place it on the ground near the end of the tubing making sure not to bend or kink the tubing. Repeat this Step until the sampler is retrieved.

e. Promptly clean all probe rods and sampler part before the grout sets up and clogs the equipment.



Screen Point 15 Ground Water Sampler Parts

The Screen Point 15 Ground Water Sampler utilizes a stainless steel or PVC screen which is encased in an alloy steel sampler sheath. An expendable drive point is placed in the lower end of the sheath while a drive head is attached to the top. O-rings on the drive head and expendable point provide a watertight sheath. Once the desired sampling interval is reached, extension rods equipped with a screen push adapter are inserted down the inside diameter of the probe string. The tool string is then retracted approximately 44 inches while the screen is held in place with the extension rods. At this point the system is ready for ground water sampling. When sampling is complete, a removable plug in the bottom of the screen allows for grouting below the sampler as the tool string is retrieved.



The assembled Screen Point 15 Groundwater Sampler is driven to the desired sampling depth using standard Geoprobe rods.

Extension rods are used to hold the screen in position as the Casing Puller Assembly is used to retract the rods 4 feet (1.2 m).

The tubing check valve can be used to sample and measure NAPLs within the screen interval as well as sample groundwater. The screen sheath forms a mechanical annular seal above the screen interval.

Abandonment grouting can be conducted to meet ASTM requirements. A high-pressure grout pump is used to pump grout into the borehole as the screen and rods are extracted using the Casing Puller Assembly.

Screen Point Ground Water Sampler Basic Operation

APPENDIX B

WDNR
ABANDONMENT FORMS

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W
11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: VILAS

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W
(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location
___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: 320 WALL ST

City, Village: EAGLE RIVER

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: EAGLE CLEMONS

Street or Route: 320 WALL STREET

City, State, Zip Code: EAGLE RIVER

Facility Well No. and/or Name (If Applicable): GP-1

WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: TEMPORARY BOREHOLE

Date of Abandonment: 9/19/02

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date): 9/19/02

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify): DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.): 25 (From groundsurface)

Casing Diameter (ins.): NA

Casing Depth (ft.): NA

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? NA Feet

(4) Depth to Water (Feet): 20

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: TEMPORARY BOREHOLE

Was Casing Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
BENTONITE SLURRY	Surface	25	4 GAL	5 LBS / 35 GAL

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work: MATRIX ENVIRONMENTAL, LLC

Signature of Person Doing Work: Kelly O'Hara
Date Signed: 9/20/02

Street or Route: 8631 JEFFERSON HWY
Telephone Number: (763) 424-4803

City, State, Zip Code: OSSEO, MN 55369

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W
11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: VILAS

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: 320 WALL ST

City, Village: EAGLE RIVER

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: EARLE CLEMONS

Street or Route: 320 WALL STREET

City, State, Zip Code: EAGLE RIVER

Facility Well No. and/or Name (If Applicable): GP-3

WI Unique Well No.: _ _ _ _ _ _ _

Reason For Abandonment: TEMPORARY BOREHOLE

Date of Abandonment: 9/19/02

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 9/19/02

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 19 Casing Diameter (ins.) NA
(From groundsurface)

Casing Depth (ft.) NA

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? NA Feet

(4) Depth to Water (Feet) 17

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: TEMPORARY BOREHOLE

Was Casing Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
BENTONITE SLURRY	Surface	19	36 GAL	5 LBS / 35 GAL

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work: MATRIX ENVIRONMENTAL, LLC

Signature of Person Doing Work: Kelly O'Hara
Date Signed: 9/20/02

Street or Route: 8631 JEFFERSON HWY
Telephone Number: (763) 424-4803

City, State, Zip Code: OSSEO, MN 55369

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected
District/County
Reviewer/Inspector
Follow-up Necessary

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W
11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: VILAS

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

Gov't Lot ___ Grid Number ___

Grid Location

___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: 320 WALL ST.

City, Village: EAGLE RIVER

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: EAGLE CLEMONS

Street or Route: 320 WALL STREET

City, State, Zip Code: EAGLE RIVER

Facility Well No. and/or Name (If Applicable): GP-7

WI Unique Well No.: _____

Reason For Abandonment: TEMPORARY BOREHOLE

Date of Abandonment: 9/19/02

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date): 9/19/02

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify): DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.): 20 (From groundsurface)

Casing Diameter (ins.): NA

Casing Depth (ft.): NA

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? NA Feet

(4) Depth to Water (Feet): 17

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: TEMPORARY BORING

Was Casing Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
BENTONITE SLURRY	Surface	20	36 GAL	5 LBS / 35 GAL

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work: MATRIX ENVIRONMENTAL, LLC

Signature of Person Doing Work: Kelly O'Hara
Date Signed: 9/20/02

Street or Route: 8631 JEFFERSON HWY
Telephone Number: (763) 424-4803

City, State, Zip Code: OSSEO, MN 55369

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W
11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: VILAS

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W
(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location
___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: 320 WAU ST

City, Village: EAGLE RIVER

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: EAGLE CLEMONS

Street or Route: 320 WAU STREET

City, State, Zip Code: EAGLE RIVER

Facility Well No. and/or Name (If Applicable): GP-9

WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: TEMPORARY BOREHOLE

Date of Abandonment: 9/19/02

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 9/19/02

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 19 Casing Diameter (ins.) NA
(From groundsurface)

Casing Depth (ft.) NA

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? NA Feet

(4) Depth to Water (Feet) 17

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: TEMPORARY BORING

Was Casing Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Reopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
BENTONITE SLURRY	Surface	19	3 GAL	5 LBS / 35 GAL

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
MATRIX ENVIRONMENTAL, LLC

Signature of Person Doing Work: Kelly O'Hara
Date Signed: 9/20/02

Street or Route: 8631 JEFFERSON HWY
Telephone Number: (763) 424-4803

City, State, Zip Code: OSSEO, MN 55369

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected
District/County
Reviewer/Inspector
Follow-up Necessary

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Vilas

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N. R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: 320 Wall St.

City, Village: Eagle River

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: Eagle Clemons

Street or Route: 320 Wall Street

City, State, Zip Code: Eagle River

Facility Well No. and/or Name (If Applicable): GP-10

WI Unique Well No.: _____

Reason For Abandonment: Temporary Borehole

Date of Abandonment: 9/20/02

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 9/20/02

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 19 Casing Diameter (ins.) NA
(From groundsurface)

Casing Depth (ft.) NA

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? NA Feet

(4) Depth to Water (Feet) 17

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: Temporary Boring

Was Casing Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Slurry	Surface	19	36 gal	50 lbs / 35 gal

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work: Matrix Environmental, LLC

Signature of Person Doing Work	Date Signed
Kelly O'Hara	9/20/02
Street or Route: 8631 Jefferson Hwy	Telephone Number: (763) 424-4803
City, State, Zip Code: Osseo, MN 55369	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: VILAS

__ 1/4 of __ 1/4 of Sec. ___ ; T. ___ N R. ___ ☐ E ☐ W

(If applicable)

_____ Gov't Lot _____ Grid Number

Grid Location

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: 320 WALL STR

City, Village: EAGLE RIVER

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: EAGLE CLEMONS

Street or Route: 320 WALL STREET

City, State, Zip Code: EAGLE RIVER

Facility Well No. and/or Name (If Applicable): GP-11

WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: TEMPORARY BOREHOLE

Date of Abandonment: 9/20/02

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 9/20/02

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 24 Casing Diameter (ins.) NA
(From groundsurface)

Casing Depth (ft.) NA

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? NA Feet

(4) Depth to Water (Feet) 14

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain TEMPORARY BOREHOLE

Was Casing Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
BENTONITE SLURRY	Surface	24	36 GAL	5 LBS / 35 GAL

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work: MATRIX ENVIRONMENTAL, LLC

Signature of Person Doing Work: Kelly O'Hara
Date Signed: 9/20/02

Street or Route: 8631 JEFFERSON HWY
Telephone Number: (763) 424-4803

City, State, Zip Code: OSSEO, MN 55369

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected
District/County
Reviewer/Inspector
Follow-up Necessary

DNR/COUNTY

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105 000330
EPA Laboratory ID No. WI00034

NLS Project: 70968
NLS Customer: 10510

Client: E.C.C.I. (RHI)
Attn: Tim Baker
22 North Pelham Street
P O Box 614
Rhinelander,WI 54501

Fax: 715 365 5201 Phone: 715 365 5200

Project: Eagle Cleaners

GMW-1 NLS ID: 299887
Ref. Line 1 COC 58928 GMW-1 Matrix: GW
Collected: 12/11/02 00:00 Received: 12/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached		-			12/20/02	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethene by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750

GMW-2 NLS ID: 299888
Ref. Line 2 COC 58928 GMW-2 Matrix: GW
Collected: 12/11/02 00:00 Received: 12/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached		-			12/19/02	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 8015	405132750
Ethane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethene by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750

GMW-3 NLS ID: 299889
Ref. Line 3 COC 58928 GMW-3 Matrix: GW
Collected: 12/11/02 00:00 Received: 12/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached		-			12/19/02	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethene by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750

GMW-4 NLS ID: 299890
Ref. Line 4 COC 58928 GMW-4 Matrix: GW
Collected: 12/11/02 00:00 Received: 12/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached		-			12/19/02	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethene by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750

GMW-5 NLS ID: 299891
Ref. Line 5 COC 58928 GMW-5 Matrix: GW
Collected: 12/11/02 00:00 Received: 12/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached		-			12/19/02	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethene by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105 000330
EPA Laboratory ID No. WI00034

NLS Project: 70968
NLS Customer: 10510

Fax: 715 365 5201 Phone: 715 365 5200

Client: E.C.C.I. (RHI)
Attn: Tim Baker
22 North Pelham Street
P O Box 614
Rhinelander,WI 54501

Project: Eagle Cleaners

GMW-6 NLS ID: 299892
Ref. Line 6 COC 58928 GMW-6 Matrix: GW
Collected: 12/11/02 00:00 Received: 12/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached		-			12/19/02	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethene by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750

NMW-1 NLS ID: 299893
Ref. Line 7 COC 58928 NMW-1 Matrix: GW
Collected: 12/11/02 00:00 Received: 12/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached		-			12/20/02	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethene by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750

MW-1 NLS ID: 299894
Ref. Line 8 COC 58928 MW-1 Matrix: GW
Collected: 12/11/02 00:00 Received: 12/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Alkalinity, tot. as CaCO3 (filtered)	33	mg/L	1	1.1	3.9	12/18/02	EPA 310.1	721026460
Chloride, as Cl (unfiltered)	260	mg/L	50	25*		12/17/02	SW846 9056	721026460
Nitrogen, NO2 + NO3 as N (filtered)	2.4	mg/L	5	0.38*		12/19/02	EPA 353.2	721026460
Sulfate, as SO4 (filtered)	21	mg/L	10	5.0*		12/17/02	SW846 9056	721026460
VOCs (water) by EPA 8021	see attached		-			12/19/02	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethene by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750

MW-2 NLS ID: 299895
Ref. Line 9 COC 58928 MW-2 Matrix: GW (DUP)
Collected: 12/11/02 00:00 Received: 12/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Alkalinity, tot. as CaCO3 (filtered)	35	mg/L	1	1.1	3.9	12/18/02	EPA 310.1	721026460
Chloride, as Cl (unfiltered)	190	mg/L	50	25*		12/17/02	SW846 9056	721026460
Nitrogen, NO2 + NO3 as N (filtered)	3.1	mg/L	5	0.38*		12/19/02	EPA 353.2	721026460
Sulfate, as SO4 (filtered)	17	mg/L	10	5.0*		12/17/02	SW846 9056	721026460
VOCs (water) by EPA 8021	see attached		-			12/19/02	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethene by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105 000330
EPA Laboratory ID No. WI00034

NLS Project: 70968
NLS Customer: 10510

Fax: 715 365 5201 Phone: 715 365 5200

Client: E.C.C.I. (RHI)
Attn: Tim Baker
22 North Pelham Street
P O Box 614
Rhinelander,WI 54501

Project: Eagle Cleaners

MW-3 NLS ID: 299896
Ref. Line 10 COC 58928 MW-3 Matrix: GW
Collected: 12/11/02 00:00 Received: 12/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached		-			12/19/02	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethene by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750

PZ-1 NLS ID: 299897
Ref. Line 1 COC 58940 PZ-1 Matrix: GW
Collected: 12/11/02 00:00 Received: 12/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Alkalinity, tot. as CaCO3 (filtered)	110	mg/L	1	1.1	3.9	12/18/02	EPA 310.1	721026460
Chloride, as Cl (unfiltered)	23	mg/L	10	5.0*		12/16/02	SW846 9056	721026460
Nitrogen, NO2 + NO3 as N (filtered)	0.12	mg/L	1	0.075*		12/19/02	EPA 353.2	721026460
Sulfate, as SO4 (filtered)	10	mg/L	10	5.0*		12/17/02	SW846 9056	721026460
VOCs (water) by EPA 8021	see attached		-			12/20/02	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethene by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750

PZ-2 NLS ID: 299898
Ref. Line 2 COC 58940 PZ-2 Matrix: GW
Collected: 12/11/02 00:00 Received: 12/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Alkalinity, tot. as CaCO3 (filtered)	120	mg/L	1	1.1	3.9	12/18/02	EPA 310.1	721026460
Chloride, as Cl (unfiltered)	17	mg/L	10	5.0*		12/16/02	SW846 9056	721026460
Nitrogen, NO2 + NO3 as N (filtered)	ND	mg/L	1	0.075*		12/19/02	EPA 353.2	721026460
Sulfate, as SO4 (filtered)	8.5	mg/L	10	5.0*		12/17/02	SW846 9056	721026460
VOCs (water) by EPA 8021	see attached		-			12/23/02	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethane by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750
Ethene by EPA 8015	ND	ug/L	-	10*		12/24/02	SW846 M8015B	405132750

Dup NLS ID: 299899
Ref. Line COC 58940 Dup Matrix: GW (mw-2)
Collected: 12/11/02 00:00 Received: 12/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached		-			12/20/02	SW846 8021	721026460

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ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105 000330
EPA Laboratory ID No. WI00034

NLS Project: 70968
NLS Customer: 10510

Fax: 715 365 5201 Phone: 715 365 5200

Client: E.C.C.I. (RHI)
Attn: Tim Baker
22 North Pelham Street
P O Box 614
Rhinelander,WI 54501

Project: Eagle Cleaners

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and LOQ tagged with an asterisk(*) are considered Reporting Limits.

LOD = Limit of Detection LOQ = Limit of Quantitation ND = Not Detected 1000 ug/L = 1 mg/L
DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000
MCL = Maximum Contaminant Levels for Drinking Water Samples

Reviewed by: 

Authorized by:
R. T. Krueger
President

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299887 GMW-1 **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.29	0.96
Bromobenzene	ND	ug/L	1	0.15	0.47
Bromochloromethane	ND	ug/L	1	0.36	1.2
Bromodichloromethane	ND	ug/L	1	0.32	1.1
Bromoform	ND	ug/L	1	0.29	0.97
Bromomethane	ND	ug/L	1	0.35	1.2
n-Butylbenzene	ND	ug/L	1	0.28	0.93
sec-Butylbenzene	ND	ug/L	1	0.32	1.1
tert-Butylbenzene	ND	ug/L	1	0.17	0.52
Carbon Tetrachloride	ND	ug/L	1	0.27	0.91
Chlorobenzene	ND	ug/L	1	0.26	0.87
Chloroethane	ND	ug/L	1	1.4	4.8
Chloroform	ND	ug/L	1	0.30	0.99
Chloromethane	ND	ug/L	1	0.29	0.96
2-Chlorotoluene	ND	ug/L	1	0.29	0.97
4-Chlorotoluene	ND	ug/L	1	0.22	0.73
Dibromochloromethane	ND	ug/L	1	0.26	0.88
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.31	1.0
1,2-Dibromoethane	ND	ug/L	1	0.26	0.86
Dibromomethane	ND	ug/L	1	0.31	1.0
1,2-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,3-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,4-Dichlorobenzene	ND	ug/L	1	0.26	0.87
Dichlorodifluoromethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethane	ND	ug/L	1	0.33	1.1
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethene	ND	ug/L	1	0.29	0.96
cis-1,2-Dichloroethene	ND	ug/L	1	0.28	0.93
trans-1,2-Dichloroethene	ND	ug/L	1	0.29	0.98
1,2-Dichloropropane	ND	ug/L	1	0.33	1.1
1,3-Dichloropropane	ND	ug/L	1	0.33	1.1
2,2-Dichloropropane	ND	ug/L	1	0.28	0.95
1,1-Dichloropropene	ND	ug/L	1	0.29	0.98
cis-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
trans-1,3-Dichloropropene	ND	ug/L	1	0.34	1.1
Ethylbenzene	ND	ug/L	1	0.28	0.93
Hexachlorobutadiene	ND	ug/L	1	0.37	1.2
Isopropylbenzene	ND	ug/L	1	0.28	0.93
p-Isopropyltoluene	ND	ug/L	1	0.31	1.0
Methylene chloride	ND	ug/L	1	0.56	1.9
Naphthalene	ND	ug/L	1	0.29	0.93
n-Propylbenzene	ND	ug/L	1	0.25	0.82
ortho-Xylene	ND	ug/L	1	0.26	0.87
Styrene	ND	ug/L	1	0.25	0.82
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.30	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.31	1.0
Tetrachloroethene	24	ug/L	2.5	0.26	0.93
Toluene	ND	ug/L	1	0.36	1.2
1,2,3-Trichlorobenzene	ND	ug/L	1	0.26	0.84
1,2,4-Trichlorobenzene	ND	ug/L	1	0.36	1.2
1,1,1-Trichloroethane	ND	ug/L	1	0.31	1.0
1,1,2-Trichloroethane	ND	ug/L	1	0.40	1.3
Trichloroethene	[0.54]	ug/L	1	0.29	0.97

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**

Project Description: Eagle Cleaners

Project Title: **Template: SAT2W8021**

Sample: 299887 **GMW-1** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/L	1	0.28	0.93
1,2,3-Trichloropropane	ND	ug/L	1	0.34	1.1
1,2,4-Trimethylbenzene	ND	ug/L	1	0.23	0.78
1,3,5-Trimethylbenzene	ND	ug/L	1	0.30	1.0
Vinyl chloride	ND	ug/L	1	0.11	0.37
meta,para-Xylene	ND	ug/L	1	0.49	1.6
MTBE	ND	ug/L	1	0.33	1.1
Isopropyl ether	ND	ug/L	1	0.35	1.2
Dibromofluoromethane (SURR**)	85%				
Toluene-d8 (SURR**)	92%				
1-Bromo-4-Fluorobenzene (SURR**)	94%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299888 GMW-2 **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.29	0.96
Bromobenzene	ND	ug/L	1	0.15	0.47
Bromochloromethane	ND	ug/L	1	0.36	1.2
Bromodichloromethane	ND	ug/L	1	0.32	1.1
Bromoform	ND	ug/L	1	0.29	0.97
Bromomethane	ND	ug/L	1	0.35	1.2
n-Butylbenzene	ND	ug/L	1	0.28	0.93
sec-Butylbenzene	ND	ug/L	1	0.32	1.1
tert-Butylbenzene	ND	ug/L	1	0.17	0.52
Carbon Tetrachloride	ND	ug/L	1	0.27	0.91
Chlorobenzene	ND	ug/L	1	0.26	0.87
Chloroethane	ND	ug/L	1	1.4	4.8
Chloroform	ND	ug/L	1	0.30	0.99
Chloromethane	ND	ug/L	1	0.29	0.96
2-Chlorotoluene	ND	ug/L	1	0.29	0.97
4-Chlorotoluene	ND	ug/L	1	0.22	0.73
Dibromochloromethane	ND	ug/L	1	0.26	0.88
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.31	1.0
1,2-Dibromoethane	ND	ug/L	1	0.26	0.86
Dibromomethane	ND	ug/L	1	0.31	1.0
1,2-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,3-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,4-Dichlorobenzene	ND	ug/L	1	0.26	0.87
Dichlorodifluoromethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethane	ND	ug/L	1	0.33	1.1
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethene	ND	ug/L	1	0.29	0.96
cis-1,2-Dichloroethene	ND	ug/L	1	0.28	0.93
trans-1,2-Dichloroethene	ND	ug/L	1	0.29	0.98
1,2-Dichloropropane	ND	ug/L	1	0.33	1.1
1,3-Dichloropropane	ND	ug/L	1	0.33	1.1
2,2-Dichloropropane	ND	ug/L	1	0.28	0.95
1,1-Dichloropropene	ND	ug/L	1	0.29	0.98
cis-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
trans-1,3-Dichloropropene	ND	ug/L	1	0.34	1.1
Ethylbenzene	ND	ug/L	1	0.28	0.93
Hexachlorobutadiene	ND	ug/L	1	0.37	1.2
Isopropylbenzene	ND	ug/L	1	0.28	0.93
p-Isopropyltoluene	ND	ug/L	1	0.31	1.0
Methylene chloride	ND	ug/L	1	0.56	1.9
Naphthalene	ND	ug/L	1	0.29	0.93
n-Propylbenzene	ND	ug/L	1	0.25	0.82
ortho-Xylene	ND	ug/L	1	0.26	0.87
Styrene	ND	ug/L	1	0.25	0.82
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.30	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.31	1.0
Tetrachloroethene	ND	ug/L	1	0.25	0.84
Toluene	ND	ug/L	1	0.36	1.2
1,2,3-Trichlorobenzene	ND	ug/L	1	0.26	0.84
1,2,4-Trichlorobenzene	ND	ug/L	1	0.36	1.2
1,1,1-Trichloroethane	ND	ug/L	1	0.31	1.0
1,1,2-Trichloroethane	ND	ug/L	1	0.40	1.3
Trichloroethene	ND	ug/L	1	0.29	0.97

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299888 **GMW-2** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/L	1	0.28	0.93
1,2,3-Trichloropropane	ND	ug/L	1	0.34	1.1
1,2,4-Trimethylbenzene	ND	ug/L	1	0.23	0.78
1,3,5-Trimethylbenzene	ND	ug/L	1	0.30	1.0
Vinyl chloride	ND	ug/L	1	0.11	0.37
meta,para-Xylene	ND	ug/L	1	0.49	1.6
MTBE	ND	ug/L	1	0.33	1.1
Isopropyl ether	ND	ug/L	1	0.35	1.2
Dibromofluoromethane (SURR**)	89%				
Toluene-d8 (SURR**)	89%				
1-Bromo-4-Fluorobenzene (SURR**)	92%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**

Project Description: Eagle Cleaners

Project Title: **Template: SAT2W8021**

Sample: 299889 **GMW-3** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.29	0.96
Bromobenzene	ND	ug/L	1	0.15	0.47
Bromochloromethane	ND	ug/L	1	0.36	1.2
Bromodichloromethane	ND	ug/L	1	0.32	1.1
Bromoform	ND	ug/L	1	0.29	0.97
Bromomethane	ND	ug/L	1	0.35	1.2
n-Butylbenzene	ND	ug/L	1	0.28	0.93
sec-Butylbenzene	ND	ug/L	1	0.32	1.1
tert-Butylbenzene	ND	ug/L	1	0.17	0.52
Carbon Tetrachloride	ND	ug/L	1	0.27	0.91
Chlorobenzene	ND	ug/L	1	0.26	0.87
Chloroethane	ND	ug/L	1	1.4	4.8
Chloroform	ND	ug/L	1	0.30	0.99
Chloromethane	ND	ug/L	1	0.29	0.96
2-Chlorotoluene	ND	ug/L	1	0.29	0.97
4-Chlorotoluene	ND	ug/L	1	0.22	0.73
Dibromochloromethane	ND	ug/L	1	0.26	0.88
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.31	1.0
1,2-Dibromoethane	ND	ug/L	1	0.26	0.86
Dibromomethane	ND	ug/L	1	0.31	1.0
1,2-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,3-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,4-Dichlorobenzene	ND	ug/L	1	0.26	0.87
Dichlorodifluoromethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethane	ND	ug/L	1	0.33	1.1
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethene	ND	ug/L	1	0.29	0.96
cis-1,2-Dichloroethene	ND	ug/L	1	0.28	0.93
trans-1,2-Dichloroethene	ND	ug/L	1	0.29	0.98
1,2-Dichloropropane	ND	ug/L	1	0.33	1.1
1,3-Dichloropropane	ND	ug/L	1	0.33	1.1
2,2-Dichloropropane	ND	ug/L	1	0.28	0.95
1,1-Dichloropropene	ND	ug/L	1	0.29	0.98
cis-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
trans-1,3-Dichloropropene	ND	ug/L	1	0.34	1.1
Ethylbenzene	ND	ug/L	1	0.28	0.93
Hexachlorobutadiene	ND	ug/L	1	0.37	1.2
Isopropylbenzene	ND	ug/L	1	0.28	0.93
p-Isopropyltoluene	ND	ug/L	1	0.31	1.0
Methylene chloride	ND	ug/L	1	0.56	1.9
Naphthalene	ND	ug/L	1	0.29	0.93
n-Propylbenzene	ND	ug/L	1	0.25	0.82
ortho-Xylene	ND	ug/L	1	0.26	0.87
Styrene	ND	ug/L	1	0.25	0.82
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.30	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.31	1.0
Tetrachloroethene	ND	ug/L	1	0.25	0.84
Toluene	ND	ug/L	1	0.36	1.2
1,2,3-Trichlorobenzene	ND	ug/L	1	0.26	0.84
1,2,4-Trichlorobenzene	ND	ug/L	1	0.36	1.2
1,1,1-Trichloroethane	ND	ug/L	1	0.31	1.0
1,1,2-Trichloroethane	ND	ug/L	1	0.40	1.3
Trichloroethene	ND	ug/L	1	0.29	0.97

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299889 **GMW-3** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/L	1	0.28	0.93
1,2,3-Trichloropropane	ND	ug/L	1	0.34	1.1
1,2,4-Trimethylbenzene	ND	ug/L	1	0.23	0.78
1,3,5-Trimethylbenzene	ND	ug/L	1	0.30	1.0
Vinyl chloride	ND	ug/L	1	0.11	0.37
meta,para-Xylene	ND	ug/L	1	0.49	1.6
MTBE	ND	ug/L	1	0.33	1.1
Isopropyl ether	ND	ug/L	1	0.35	1.2
Dibromofluoromethane (SURR**)	85%				
Toluene-d8 (SURR**)	93%				
1-Bromo-4-Fluorobenzene (SURR**)	92%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**

Project Description: Eagle Cleaners

Project Title: **Template: SAT2W8021**

Sample: 299890 **GMW-4** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.29	0.96
Bromobenzene	ND	ug/L	1	0.15	0.47
Bromochloromethane	ND	ug/L	1	0.36	1.2
Bromodichloromethane	ND	ug/L	1	0.32	1.1
Bromoform	ND	ug/L	1	0.29	0.97
Bromomethane	ND	ug/L	1	0.35	1.2
n-Butylbenzene	ND	ug/L	1	0.28	0.93
sec-Butylbenzene	ND	ug/L	1	0.32	1.1
tert-Butylbenzene	ND	ug/L	1	0.17	0.52
Carbon Tetrachloride	ND	ug/L	1	0.27	0.91
Chlorobenzene	ND	ug/L	1	0.26	0.87
Chloroethane	ND	ug/L	1	1.4	4.8
Chloroform	1.5	ug/L	1	0.30	0.99
Chloromethane	ND	ug/L	1	0.29	0.96
2-Chlorotoluene	ND	ug/L	1	0.29	0.97
4-Chlorotoluene	ND	ug/L	1	0.22	0.73
Dibromochloromethane	ND	ug/L	1	0.26	0.88
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.31	1.0
1,2-Dibromoethane	ND	ug/L	1	0.26	0.86
Dibromomethane	ND	ug/L	1	0.31	1.0
1,2-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,3-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,4-Dichlorobenzene	ND	ug/L	1	0.26	0.87
Dichlorodifluoromethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethane	ND	ug/L	1	0.33	1.1
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethene	ND	ug/L	1	0.29	0.96
cis-1,2-Dichloroethene	ND	ug/L	1	0.28	0.93
trans-1,2-Dichloroethene	ND	ug/L	1	0.29	0.98
1,2-Dichloropropane	ND	ug/L	1	0.33	1.1
1,3-Dichloropropane	ND	ug/L	1	0.33	1.1
2,2-Dichloropropane	ND	ug/L	1	0.28	0.95
1,1-Dichloropropene	ND	ug/L	1	0.29	0.98
cis-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
trans-1,3-Dichloropropene	ND	ug/L	1	0.34	1.1
Ethylbenzene	ND	ug/L	1	0.28	0.93
Hexachlorobutadiene	ND	ug/L	1	0.37	1.2
Isopropylbenzene	ND	ug/L	1	0.28	0.93
p-Isopropyltoluene	ND	ug/L	1	0.31	1.0
Methylene chloride	ND	ug/L	1	0.56	1.9
Naphthalene	ND	ug/L	1	0.29	0.93
n-Propylbenzene	ND	ug/L	1	0.25	0.82
ortho-Xylene	ND	ug/L	1	0.26	0.87
Styrene	ND	ug/L	1	0.25	0.82
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.30	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.31	1.0
Tetrachloroethene	ND	ug/L	1	0.25	0.84
Toluene	ND	ug/L	1	0.36	1.2
1,2,3-Trichlorobenzene	ND	ug/L	1	0.26	0.84
1,2,4-Trichlorobenzene	ND	ug/L	1	0.36	1.2
1,1,1-Trichloroethane	ND	ug/L	1	0.31	1.0
1,1,2-Trichloroethane	ND	ug/L	1	0.40	1.3
Trichloroethene	ND	ug/L	1	0.29	0.97

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299890 GMW-4 **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/L	1	0.28	0.93
1,2,3-Trichloropropane	ND	ug/L	1	0.34	1.1
1,2,4-Trimethylbenzene	ND	ug/L	1	0.23	0.78
1,3,5-Trimethylbenzene	ND	ug/L	1	0.30	1.0
Vinyl chloride	ND	ug/L	1	0.11	0.37
meta,para-Xylene	ND	ug/L	1	0.49	1.6
MTBE	ND	ug/L	1	0.33	1.1
Isopropyl ether	ND	ug/L	1	0.35	1.2
Dibromofluoromethane (SURR**)	90%				
Toluene-d8 (SURR**)	98%				
1-Bromo-4-Fluorobenzene (SURR**)	98%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299891 **GMW-5** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.29	0.96
Bromobenzene	ND	ug/L	1	0.15	0.47
Bromochloromethane	ND	ug/L	1	0.36	1.2
Bromodichloromethane	ND	ug/L	1	0.32	1.1
Bromoform	ND	ug/L	1	0.29	0.97
Bromomethane	ND	ug/L	1	0.35	1.2
n-Butylbenzene	ND	ug/L	1	0.28	0.93
sec-Butylbenzene	ND	ug/L	1	0.32	1.1
tert-Butylbenzene	ND	ug/L	1	0.17	0.52
Carbon Tetrachloride	ND	ug/L	1	0.27	0.91
Chlorobenzene	ND	ug/L	1	0.26	0.87
Chloroethane	ND	ug/L	1	1.4	4.8
Chloroform	ND	ug/L	1	0.30	0.99
Chloromethane	ND	ug/L	1	0.29	0.96
2-Chlorotoluene	ND	ug/L	1	0.29	0.97
4-Chlorotoluene	ND	ug/L	1	0.22	0.73
Dibromochloromethane	ND	ug/L	1	0.26	0.88
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.31	1.0
1,2-Dibromoethane	ND	ug/L	1	0.26	0.86
Dibromomethane	ND	ug/L	1	0.31	1.0
1,2-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,3-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,4-Dichlorobenzene	ND	ug/L	1	0.26	0.87
Dichlorodifluoromethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethane	ND	ug/L	1	0.33	1.1
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethene	ND	ug/L	1	0.29	0.96
cis-1,2-Dichloroethene	ND	ug/L	1	0.28	0.93
trans-1,2-Dichloroethene	ND	ug/L	1	0.29	0.98
1,2-Dichloropropane	ND	ug/L	1	0.33	1.1
1,3-Dichloropropane	ND	ug/L	1	0.33	1.1
2,2-Dichloropropane	ND	ug/L	1	0.28	0.95
1,1-Dichloropropene	ND	ug/L	1	0.29	0.98
cis-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
trans-1,3-Dichloropropene	ND	ug/L	1	0.34	1.1
Ethylbenzene	ND	ug/L	1	0.28	0.93
Hexachlorobutadiene	ND	ug/L	1	0.37	1.2
Isopropylbenzene	ND	ug/L	1	0.28	0.93
p-Isopropyltoluene	ND	ug/L	1	0.31	1.0
Methylene chloride	ND	ug/L	1	0.56	1.9
Naphthalene	ND	ug/L	1	0.29	0.93
n-Propylbenzene	ND	ug/L	1	0.25	0.82
ortho-Xylene	ND	ug/L	1	0.26	0.87
Styrene	ND	ug/L	1	0.25	0.82
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.30	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.31	1.0
Tetrachloroethene	ND	ug/L	1	0.25	0.84
Toluene	ND	ug/L	1	0.36	1.2
1,2,3-Trichlorobenzene	ND	ug/L	1	0.26	0.84
1,2,4-Trichlorobenzene	ND	ug/L	1	0.36	1.2
1,1,1-Trichloroethane	ND	ug/L	1	0.31	1.0
1,1,2-Trichloroethane	ND	ug/L	1	0.40	1.3
Trichloroethene	ND	ug/L	1	0.29	0.97

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299891 **GMW-5** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/L	1	0.28	0.93
1,2,3-Trichloropropane	ND	ug/L	1	0.34	1.1
1,2,4-Trimethylbenzene	ND	ug/L	1	0.23	0.78
1,3,5-Trimethylbenzene	ND	ug/L	1	0.30	1.0
Vinyl chloride	ND	ug/L	1	0.11	0.37
meta,para-Xylene	ND	ug/L	1	0.49	1.6
MTBE	ND	ug/L	1	0.33	1.1
Isopropyl ether	ND	ug/L	1	0.35	1.2
Dibromofluoromethane (SURR**)	91%				
Toluene-d8 (SURR**)	94%				
1-Bromo-4-Fluorobenzene (SURR**)	96%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299892 **GMW-6** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.29	0.96
Bromobenzene	ND	ug/L	1	0.15	0.47
Bromochloromethane	ND	ug/L	1	0.36	1.2
Bromodichloromethane	ND	ug/L	1	0.32	1.1
Bromoform	ND	ug/L	1	0.29	0.97
Bromomethane	ND	ug/L	1	0.35	1.2
n-Butylbenzene	ND	ug/L	1	0.28	0.93
sec-Butylbenzene	ND	ug/L	1	0.32	1.1
tert-Butylbenzene	ND	ug/L	1	0.17	0.52
Carbon Tetrachloride	ND	ug/L	1	0.27	0.91
Chlorobenzene	ND	ug/L	1	0.26	0.87
Chloroethane	ND	ug/L	1	1.4	4.8
Chloroform	ND	ug/L	1	0.30	0.99
Chloromethane	ND	ug/L	1	0.29	0.96
2-Chlorotoluene	ND	ug/L	1	0.29	0.97
4-Chlorotoluene	ND	ug/L	1	0.22	0.73
Dibromochloromethane	ND	ug/L	1	0.26	0.88
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.31	1.0
1,2-Dibromoethane	ND	ug/L	1	0.26	0.86
Dibromomethane	ND	ug/L	1	0.31	1.0
1,2-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,3-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,4-Dichlorobenzene	ND	ug/L	1	0.26	0.87
Dichlorodifluoromethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethane	ND	ug/L	1	0.33	1.1
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethene	ND	ug/L	1	0.29	0.96
cis-1,2-Dichloroethene	ND	ug/L	1	0.28	0.93
trans-1,2-Dichloroethene	ND	ug/L	1	0.29	0.98
1,2-Dichloropropane	ND	ug/L	1	0.33	1.1
1,3-Dichloropropane	ND	ug/L	1	0.33	1.1
2,2-Dichloropropane	ND	ug/L	1	0.28	0.95
1,1-Dichloropropene	ND	ug/L	1	0.29	0.98
cis-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
trans-1,3-Dichloropropene	ND	ug/L	1	0.34	1.1
Ethylbenzene	ND	ug/L	1	0.28	0.93
Hexachlorobutadiene	ND	ug/L	1	0.37	1.2
Isopropylbenzene	ND	ug/L	1	0.28	0.93
p-Isopropyltoluene	ND	ug/L	1	0.31	1.0
Methylene chloride	ND	ug/L	1	0.56	1.9
Naphthalene	ND	ug/L	1	0.29	0.93
n-Propylbenzene	ND	ug/L	1	0.25	0.82
ortho-Xylene	ND	ug/L	1	0.26	0.87
Styrene	ND	ug/L	1	0.25	0.82
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.30	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.31	1.0
Tetrachloroethene	2.8	ug/L	1	0.25	0.84
Toluene	ND	ug/L	1	0.36	1.2
1,2,3-Trichlorobenzene	ND	ug/L	1	0.26	0.84
1,2,4-Trichlorobenzene	ND	ug/L	1	0.36	1.2
1,1,1-Trichloroethane	ND	ug/L	1	0.31	1.0
1,1,2-Trichloroethane	ND	ug/L	1	0.40	1.3
Trichloroethene	ND	ug/L	1	0.29	0.97

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299892 **GMW-6** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/L	1	0.28	0.93
1,2,3-Trichloropropane	ND	ug/L	1	0.34	1.1
1,2,4-Trimethylbenzene	ND	ug/L	1	0.23	0.78
1,3,5-Trimethylbenzene	ND	ug/L	1	0.30	1.0
Vinyl chloride	ND	ug/L	1	0.11	0.37
meta,para-Xylene	ND	ug/L	1	0.49	1.6
MTBE	ND	ug/L	1	0.33	1.1
Isopropyl ether	ND	ug/L	1	0.35	1.2
Dibromofluoromethane (SURR**)	85%				
Toluene-d8 (SURR**)	88%				
1-Bromo-4-Fluorobenzene (SURR**)	91%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299893 **NMW-1** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.29	0.96
Bromobenzene	ND	ug/L	1	0.15	0.47
Bromochloromethane	ND	ug/L	1	0.36	1.2
Bromodichloromethane	ND	ug/L	1	0.32	1.1
Bromoform	ND	ug/L	1	0.29	0.97
Bromomethane	ND	ug/L	1	0.35	1.2
n-Butylbenzene	ND	ug/L	1	0.28	0.93
sec-Butylbenzene	ND	ug/L	1	0.32	1.1
tert-Butylbenzene	ND	ug/L	1	0.17	0.52
Carbon Tetrachloride	ND	ug/L	1	0.27	0.91
Chlorobenzene	ND	ug/L	1	0.26	0.87
Chloroethane	ND	ug/L	1	1.4	4.8
Chloroform	ND	ug/L	1	0.30	0.99
Chloromethane	ND	ug/L	1	0.29	0.96
2-Chlorotoluene	ND	ug/L	1	0.29	0.97
4-Chlorotoluene	ND	ug/L	1	0.22	0.73
Dibromochloromethane	ND	ug/L	1	0.26	0.88
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.31	1.0
1,2-Dibromoethane	ND	ug/L	1	0.26	0.86
Dibromomethane	ND	ug/L	1	0.31	1.0
1,2-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,3-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,4-Dichlorobenzene	ND	ug/L	1	0.26	0.87
Dichlorodifluoromethane	[0.42]	ug/L	1	0.34	1.1
1,1-Dichloroethane	ND	ug/L	1	0.33	1.1
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethene	ND	ug/L	1	0.29	0.96
cis-1,2-Dichloroethene	ND	ug/L	1	0.28	0.93
trans-1,2-Dichloroethene	ND	ug/L	1	0.29	0.98
1,2-Dichloropropane	ND	ug/L	1	0.33	1.1
1,3-Dichloropropane	ND	ug/L	1	0.33	1.1
2,2-Dichloropropane	ND	ug/L	1	0.28	0.95
1,1-Dichloropropene	ND	ug/L	1	0.29	0.98
cis-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
trans-1,3-Dichloropropene	ND	ug/L	1	0.34	1.1
Ethylbenzene	ND	ug/L	1	0.28	0.93
Hexachlorobutadiene	ND	ug/L	1	0.37	1.2
Isopropylbenzene	ND	ug/L	1	0.28	0.93
p-Isopropyltoluene	ND	ug/L	1	0.31	1.0
Methylene chloride	ND	ug/L	1	0.56	1.9
Naphthalene	ND	ug/L	1	0.29	0.93
n-Propylbenzene	ND	ug/L	1	0.25	0.82
ortho-Xylene	ND	ug/L	1	0.26	0.87
Styrene	ND	ug/L	1	0.25	0.82
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.30	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.31	1.0
Tetrachloroethene	65	ug/L	8	0.82	3.0
Toluene	ND	ug/L	1	0.36	1.2
1,2,3-Trichlorobenzene	ND	ug/L	1	0.26	0.84
1,2,4-Trichlorobenzene	ND	ug/L	1	0.36	1.2
1,1,1-Trichloroethane	ND	ug/L	1	0.31	1.0
1,1,2-Trichloroethane	ND	ug/L	1	0.40	1.3
Trichloroethene	ND	ug/L	1	0.29	0.97

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**

Project Description: Eagle Cleaners

Project Title: **Template: SAT2W8021**

Sample: 299893 **NMW-1** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/L	1	0.28	0.93
1,2,3-Trichloropropane	ND	ug/L	1	0.34	1.1
1,2,4-Trimethylbenzene	ND	ug/L	1	0.23	0.78
1,3,5-Trimethylbenzene	ND	ug/L	1	0.30	1.0
Vinyl chloride	ND	ug/L	1	0.11	0.37
meta,para-Xylene	ND	ug/L	1	0.49	1.6
MTBE	ND	ug/L	1	0.33	1.1
Isopropyl ether	ND	ug/L	1	0.35	1.2
Dibromofluoromethane (SURR**)	88%				
Toluene-d8 (SURR**)	92%				
1-Bromo-4-Fluorobenzene (SURR**)	97%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299894 **MW-1** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.29	0.96
Bromobenzene	ND	ug/L	1	0.15	0.47
Bromochloromethane	ND	ug/L	1	0.36	1.2
Bromodichloromethane	ND	ug/L	1	0.32	1.1
Bromoform	ND	ug/L	1	0.29	0.97
Bromomethane	ND	ug/L	1	0.35	1.2
n-Butylbenzene	ND	ug/L	1	0.28	0.93
sec-Butylbenzene	ND	ug/L	1	0.32	1.1
tert-Butylbenzene	ND	ug/L	1	0.17	0.52
Carbon Tetrachloride	ND	ug/L	1	0.27	0.91
Chlorobenzene	ND	ug/L	1	0.26	0.87
Chloroethane	ND	ug/L	1	1.4	4.8
Chloroform	ND	ug/L	1	0.30	0.99
Chloromethane	ND	ug/L	1	0.29	0.96
2-Chlorotoluene	ND	ug/L	1	0.29	0.97
4-Chlorotoluene	ND	ug/L	1	0.22	0.73
Dibromochloromethane	ND	ug/L	1	0.26	0.88
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.31	1.0
1,2-Dibromoethane	ND	ug/L	1	0.26	0.86
Dibromomethane	ND	ug/L	1	0.31	1.0
1,2-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,3-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,4-Dichlorobenzene	ND	ug/L	1	0.26	0.87
Dichlorodifluoromethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethane	ND	ug/L	1	0.33	1.1
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethene	ND	ug/L	1	0.29	0.96
cis-1,2-Dichloroethene	ND	ug/L	1	0.28	0.93
trans-1,2-Dichloroethene	ND	ug/L	1	0.29	0.98
1,2-Dichloropropane	ND	ug/L	1	0.33	1.1
1,3-Dichloropropane	ND	ug/L	1	0.33	1.1
2,2-Dichloropropane	ND	ug/L	1	0.28	0.95
1,1-Dichloropropene	ND	ug/L	1	0.29	0.98
cis-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
trans-1,3-Dichloropropene	ND	ug/L	1	0.34	1.1
Ethylbenzene	ND	ug/L	1	0.28	0.93
Hexachlorobutadiene	ND	ug/L	1	0.37	1.2
Isopropylbenzene	ND	ug/L	1	0.28	0.93
p-Isopropyltoluene	ND	ug/L	1	0.31	1.0
Methylene chloride	ND	ug/L	1	0.56	1.9
Naphthalene	ND	ug/L	1	0.29	0.93
n-Propylbenzene	ND	ug/L	1	0.25	0.82
ortho-Xylene	ND	ug/L	1	0.26	0.87
Styrene	ND	ug/L	1	0.25	0.82
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.30	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.31	1.0
Tetrachloroethene	16	ug/L	1	0.25	0.84
Toluene	ND	ug/L	1	0.36	1.2
1,2,3-Trichlorobenzene	ND	ug/L	1	0.26	0.84
1,2,4-Trichlorobenzene	ND	ug/L	1	0.36	1.2
1,1,1-Trichloroethane	ND	ug/L	1	0.31	1.0
1,1,2-Trichloroethane	ND	ug/L	1	0.40	1.3
Trichloroethene	ND	ug/L	1	0.29	0.97

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299894 **MW-1** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/L	1	0.28	0.93
1,2,3-Trichloropropane	ND	ug/L	1	0.34	1.1
1,2,4-Trimethylbenzene	ND	ug/L	1	0.23	0.78
1,3,5-Trimethylbenzene	ND	ug/L	1	0.30	1.0
Vinyl chloride	ND	ug/L	1	0.11	0.37
meta,para-Xylene	ND	ug/L	1	0.49	1.6
MTBE	ND	ug/L	1	0.33	1.1
Isopropyl ether	ND	ug/L	1	0.35	1.2
Dibromofluoromethane (SURR**)	85%				
Toluene-d8 (SURR**)	90%				
1-Bromo-4-Fluorobenzene (SURR**)	91%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299895 **MW-2** (DUP) **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.29	0.96
Bromobenzene	ND	ug/L	1	0.15	0.47
Bromochloromethane	ND	ug/L	1	0.36	1.2
Bromodichloromethane	ND	ug/L	1	0.32	1.1
Bromoform	ND	ug/L	1	0.29	0.97
Bromomethane	ND	ug/L	1	0.35	1.2
n-Butylbenzene	ND	ug/L	1	0.28	0.93
sec-Butylbenzene	ND	ug/L	1	0.32	1.1
tert-Butylbenzene	ND	ug/L	1	0.17	0.52
Carbon Tetrachloride	ND	ug/L	1	0.27	0.91
Chlorobenzene	ND	ug/L	1	0.26	0.87
Chloroethane	ND	ug/L	1	1.4	4.8
Chloroform	ND	ug/L	1	0.30	0.99
Chloromethane	ND	ug/L	1	0.29	0.96
2-Chlorotoluene	ND	ug/L	1	0.29	0.97
4-Chlorotoluene	ND	ug/L	1	0.22	0.73
Dibromochloromethane	ND	ug/L	1	0.26	0.88
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.31	1.0
1,2-Dibromoethane	ND	ug/L	1	0.26	0.86
Dibromomethane	ND	ug/L	1	0.31	1.0
1,2-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,3-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,4-Dichlorobenzene	ND	ug/L	1	0.26	0.87
Dichlorodifluoromethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethane	ND	ug/L	1	0.33	1.1
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethene	ND	ug/L	1	0.29	0.96
cis-1,2-Dichloroethene	ND	ug/L	1	0.28	0.93
trans-1,2-Dichloroethene	ND	ug/L	1	0.29	0.98
1,2-Dichloropropane	ND	ug/L	1	0.33	1.1
1,3-Dichloropropane	ND	ug/L	1	0.33	1.1
2,2-Dichloropropane	ND	ug/L	1	0.28	0.95
1,1-Dichloropropene	ND	ug/L	1	0.29	0.98
cis-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
trans-1,3-Dichloropropene	ND	ug/L	1	0.34	1.1
Ethylbenzene	ND	ug/L	1	0.28	0.93
Hexachlorobutadiene	ND	ug/L	1	0.37	1.2
Isopropylbenzene	ND	ug/L	1	0.28	0.93
p-Isopropyltoluene	ND	ug/L	1	0.31	1.0
Methylene chloride	ND	ug/L	1	0.56	1.9
Naphthalene	ND	ug/L	1	0.29	0.93
n-Propylbenzene	ND	ug/L	1	0.25	0.82
ortho-Xylene	ND	ug/L	1	0.26	0.87
Styrene	ND	ug/L	1	0.25	0.82
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.30	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.31	1.0
Tetrachloroethene	4.7	ug/L	1	0.25	0.84
Toluene	ND	ug/L	1	0.36	1.2
1,2,3-Trichlorobenzene	ND	ug/L	1	0.26	0.84
1,2,4-Trichlorobenzene	ND	ug/L	1	0.36	1.2
1,1,1-Trichloroethane	ND	ug/L	1	0.31	1.0
1,1,2-Trichloroethane	ND	ug/L	1	0.40	1.3
Trichloroethene	ND	ug/L	1	0.29	0.97

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299895 **MW-2** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/L	1	0.28	0.93
1,2,3-Trichloropropane	ND	ug/L	1	0.34	1.1
1,2,4-Trimethylbenzene	ND	ug/L	1	0.23	0.78
1,3,5-Trimethylbenzene	ND	ug/L	1	0.30	1.0
Vinyl chloride	ND	ug/L	1	0.11	0.37
meta,para-Xylene	ND	ug/L	1	0.49	1.6
MTBE	ND	ug/L	1	0.33	1.1
Isopropyl ether	ND	ug/L	1	0.35	1.2
Dibromofluoromethane (SURR**)	85%				
Toluene-d8 (SURR**)	88%				
1-Bromo-4-Fluorobenzene (SURR**)	93%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299896 MW-3 **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.29	0.96
Bromobenzene	ND	ug/L	1	0.15	0.47
Bromochloromethane	ND	ug/L	1	0.36	1.2
Bromodichloromethane	ND	ug/L	1	0.32	1.1
Bromoform	ND	ug/L	1	0.29	0.97
Bromomethane	ND	ug/L	1	0.35	1.2
n-Butylbenzene	ND	ug/L	1	0.28	0.93
sec-Butylbenzene	ND	ug/L	1	0.32	1.1
tert-Butylbenzene	ND	ug/L	1	0.17	0.52
Carbon Tetrachloride	ND	ug/L	1	0.27	0.91
Chlorobenzene	ND	ug/L	1	0.26	0.87
Chloroethane	ND	ug/L	1	1.4	4.8
Chloroform	[0.33]	ug/L	1	0.30	0.99
Chloromethane	ND	ug/L	1	0.29	0.96
2-Chlorotoluene	ND	ug/L	1	0.29	0.97
4-Chlorotoluene	ND	ug/L	1	0.22	0.73
Dibromochloromethane	ND	ug/L	1	0.26	0.88
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.31	1.0
1,2-Dibromoethane	ND	ug/L	1	0.26	0.86
Dibromomethane	ND	ug/L	1	0.31	1.0
1,2-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,3-Dichlorobenzene	ND	ug/L	1	0.29	0.96
1,4-Dichlorobenzene	ND	ug/L	1	0.26	0.87
Dichlorodifluoromethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethane	ND	ug/L	1	0.33	1.1
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1
1,1-Dichloroethene	ND	ug/L	1	0.29	0.96
cis-1,2-Dichloroethene	ND	ug/L	1	0.28	0.93
trans-1,2-Dichloroethene	ND	ug/L	1	0.29	0.98
1,2-Dichloropropane	ND	ug/L	1	0.33	1.1
1,3-Dichloropropane	ND	ug/L	1	0.33	1.1
2,2-Dichloropropane	ND	ug/L	1	0.28	0.95
1,1-Dichloropropene	ND	ug/L	1	0.29	0.98
cis-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1
trans-1,3-Dichloropropene	ND	ug/L	1	0.34	1.1
Ethylbenzene	ND	ug/L	1	0.28	0.93
Hexachlorobutadiene	ND	ug/L	1	0.37	1.2
Isopropylbenzene	ND	ug/L	1	0.28	0.93
p-Isopropyltoluene	ND	ug/L	1	0.31	1.0
Methylene chloride	ND	ug/L	1	0.56	1.9
Naphthalene	ND	ug/L	1	0.29	0.93
n-Propylbenzene	ND	ug/L	1	0.25	0.82
ortho-Xylene	ND	ug/L	1	0.26	0.87
Styrene	ND	ug/L	1	0.25	0.82
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.30	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.31	1.0
Tetrachloroethene	[0.60]	ug/L	1	0.25	0.84
Toluene	ND	ug/L	1	0.36	1.2
1,2,3-Trichlorobenzene	ND	ug/L	1	0.26	0.84
1,2,4-Trichlorobenzene	ND	ug/L	1	0.36	1.2
1,1,1-Trichloroethane	ND	ug/L	1	0.31	1.0
1,1,2-Trichloroethane	ND	ug/L	1	0.40	1.3
Trichloroethene	ND	ug/L	1	0.29	0.97

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SAT2W8021**

Sample: 299896 **MW-3** **Collected: 12/11/02** **Analyzed: 12/19/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/L	1	0.28	0.93
1,2,3-Trichloropropane	ND	ug/L	1	0.34	1.1
1,2,4-Trimethylbenzene	ND	ug/L	1	0.23	0.78
1,3,5-Trimethylbenzene	ND	ug/L	1	0.30	1.0
Vinyl chloride	ND	ug/L	1	0.11	0.37
meta,para-Xylene	ND	ug/L	1	0.49	1.6
MTBE	ND	ug/L	1	0.33	1.1
Isopropyl ether	ND	ug/L	1	0.35	1.2
Dibromofluoromethane (SURR**)	92%				
Toluene-d8 (SURR**)	96%				
1-Bromo-4-Fluorobenzene (SURR**)	95%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Sat 2000R)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SATRW8021**

Sample: 299897 PZ-1 **Collected: 12/11/02** **Analyzed: 12/20/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.12	0.43
Bromobenzene	ND	ug/L	1	0.12	0.43
Bromochloromethane	ND	ug/L	1	0.16	0.56
Bromodichloromethane	ND	ug/L	1	0.18	0.65
Bromoform	ND	ug/L	1	0.14	0.51
Bromomethane	ND	ug/L	1	0.61	2.2
n-Butylbenzene	ND	ug/L	1	0.13	0.47
sec-Butylbenzene	ND	ug/L	1	0.12	0.43
tert-Butylbenzene	ND	ug/L	1	0.12	0.37
Carbon Tetrachloride	ND	ug/L	1	0.10	0.37
Chlorobenzene	ND	ug/L	1	0.12	0.42
Chloroethane	ND	ug/L	1	1.1	4.1
Chloroform	[0.42]	ug/L	1	0.15	0.54
Chloromethane	ND	ug/L	1	0.15	0.54
2-Chlorotoluene	ND	ug/L	1	0.23	0.75
4-Chlorotoluene	ND	ug/L	1	0.15	0.52
Dibromochloromethane	ND	ug/L	1	0.15	0.55
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.23	0.81
1,2-Dibromoethane	ND	ug/L	1	0.14	0.52
Dibromomethane	ND	ug/L	1	0.19	0.68
1,2-Dichlorobenzene	ND	ug/L	1	0.11	0.41
1,3-Dichlorobenzene	ND	ug/L	1	0.37	1.3
1,4-Dichlorobenzene	ND	ug/L	1	0.25	0.79
Dichlorodifluoromethane	ND	ug/L	1	0.18	0.63
1,1-Dichloroethane	ND	ug/L	1	0.64	2.3
1,2-Dichloroethane	ND	ug/L	1	0.15	0.55
1,1-Dichloroethene	ND	ug/L	1	0.13	0.49
cis-1,2-Dichloroethene	ND	ug/L	1	0.28	1.0
trans-1,2-Dichloroethene	ND	ug/L	1	0.13	0.47
1,2-Dichloropropane	ND	ug/L	1	0.31	1.2
1,3-Dichloropropane	ND	ug/L	1	0.13	0.46
2,2-Dichloropropane	ND	ug/L	1	0.12	0.38
1,1-Dichloropropene	ND	ug/L	1	0.14	0.49
cis-1,3-Dichloropropene	ND	ug/L	1	0.15	0.54
trans-1,3-Dichloropropene	ND	ug/L	1	0.12	0.44
Ethylbenzene	ND	ug/L	1	0.18	0.58
Hexachlorobutadiene	ND	ug/L	1	0.20	0.71
Isopropylbenzene	ND	ug/L	1	0.14	0.48
p-Isopropyltoluene	ND	ug/L	1	0.14	0.50
Methylene chloride	ND	ug/L	1	0.24	0.86
Naphthalene	ND	ug/L	1	0.37	1.3
n-Propylbenzene	ND	ug/L	1	0.24	0.77
ortho-Xylene	ND	ug/L	1	0.21	0.67
Styrene	ND	ug/L	1	0.13	0.42
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.13	0.45
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.18	0.64
Tetrachloroethene	ND	ug/L	1	0.10	0.37
Toluene	ND	ug/L	1	0.17	0.63
1,2,3-Trichlorobenzene	ND	ug/L	1	0.20	0.72
1,2,4-Trichlorobenzene	ND	ug/L	1	0.17	0.62
1,1,1-Trichloroethane	ND	ug/L	1	0.17	0.56
1,1,2-Trichloroethane	ND	ug/L	1	0.25	0.80
Trichloroethene	ND	ug/L	1	0.13	0.41

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Sat 2000R)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SATRW8021**

Sample: 299897 **PZ-1** **Collected: 12/11/02** **Analyzed: 12/20/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/L	1	0.14	0.52
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.92
1,2,4-Trimethylbenzene	ND	ug/L	1	0.11	0.39
1,3,5-Trimethylbenzene	ND	ug/L	1	0.10	0.36
Vinyl chloride	ND	ug/L	1	0.18	0.63
meta,para-Xylene	ND	ug/L	1	0.35	1.1
MTBE	ND	ug/L	1	0.19	0.68
Isopropyl Ether	ND	ug/L	1	0.20	0.71
Dibromofluoromethane (SURR**)	97%				
Toluene-d8 (SURR**)	99%				
1-Bromo-4-Fluorobenzene (SURR**)	91%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Sat 2000R)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SATRW8021**

Sample: 299898 PZ-2 **Collected: 12/11/02** **Analyzed: 12/20/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.12	0.43
Bromobenzene	ND	ug/L	1	0.12	0.43
Bromochloromethane	ND	ug/L	1	0.16	0.56
Bromodichloromethane	3.6	ug/L	1	0.18	0.65
Bromoform	ND	ug/L	1	0.14	0.51
Bromomethane	ND	ug/L	1	0.61	2.2
n-Butylbenzene	ND	ug/L	1	0.13	0.47
sec-Butylbenzene	ND	ug/L	1	0.12	0.43
tert-Butylbenzene	ND	ug/L	1	0.12	0.37
Carbon Tetrachloride	ND	ug/L	1	0.10	0.37
Chlorobenzene	ND	ug/L	1	0.12	0.42
Chloroethane	ND	ug/L	1	1.1	4.1
Chloroform	35	ug/L	4	0.60	2.2
Chloromethane	ND	ug/L	1	0.15	0.54
2-Chlorotoluene	ND	ug/L	1	0.23	0.75
4-Chlorotoluene	ND	ug/L	1	0.15	0.52
Dibromochloromethane	[0.32]	ug/L	1	0.15	0.55
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.23	0.81
1,2-Dibromoethane	ND	ug/L	1	0.14	0.52
Dibromomethane	ND	ug/L	1	0.19	0.68
1,2-Dichlorobenzene	ND	ug/L	1	0.11	0.41
1,3-Dichlorobenzene	ND	ug/L	1	0.37	1.3
1,4-Dichlorobenzene	ND	ug/L	1	0.25	0.79
Dichlorodifluoromethane	ND	ug/L	1	0.18	0.63
1,1-Dichloroethane	ND	ug/L	1	0.64	2.3
1,2-Dichloroethane	ND	ug/L	1	0.15	0.55
1,1-Dichloroethene	ND	ug/L	1	0.13	0.49
cis-1,2-Dichloroethene	ND	ug/L	1	0.28	1.0
trans-1,2-Dichloroethene	ND	ug/L	1	0.13	0.47
1,2-Dichloropropane	ND	ug/L	1	0.31	1.2
1,3-Dichloropropane	ND	ug/L	1	0.13	0.46
2,2-Dichloropropane	ND	ug/L	1	0.12	0.38
1,1-Dichloropropene	ND	ug/L	1	0.14	0.49
cis-1,3-Dichloropropene	ND	ug/L	1	0.15	0.54
trans-1,3-Dichloropropene	ND	ug/L	1	0.12	0.44
Ethylbenzene	ND	ug/L	1	0.18	0.58
Hexachlorobutadiene	ND	ug/L	1	0.20	0.71
Isopropylbenzene	ND	ug/L	1	0.14	0.48
p-Isopropyltoluene	ND	ug/L	1	0.14	0.50
Methylene chloride	ND	ug/L	1	0.24	0.86
Naphthalene	ND	ug/L	1	0.37	1.3
n-Propylbenzene	ND	ug/L	1	0.24	0.77
ortho-Xylene	ND	ug/L	1	0.21	0.67
Styrene	ND	ug/L	1	0.13	0.42
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.13	0.45
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.18	0.64
Tetrachloroethene	ND	ug/L	1	0.10	0.37
Toluene	[0.18]	ug/L	1	0.17	0.63
1,2,3-Trichlorobenzene	ND	ug/L	1	0.20	0.72
1,2,4-Trichlorobenzene	ND	ug/L	1	0.17	0.62
1,1,1-Trichloroethane	ND	ug/L	1	0.17	0.56
1,1,2-Trichloroethane	ND	ug/L	1	0.25	0.80
Trichloroethene	ND	ug/L	1	0.13	0.41

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Sat 2000R)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SATRW8021**

Sample: 299898 **PZ-2** **Collected: 12/11/02** **Analyzed: 12/20/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/L	1	0.14	0.52
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.92
1,2,4-Trimethylbenzene	ND	ug/L	1	0.11	0.39
1,3,5-Trimethylbenzene	ND	ug/L	1	0.10	0.36
Vinyl chloride	ND	ug/L	1	0.18	0.63
meta,para-Xylene	ND	ug/L	1	0.35	1.1
MTBE	ND	ug/L	1	0.19	0.68
Isopropyl Ether	ND	ug/L	1	0.20	0.71
Dibromofluoromethane (SURR**)	86%				
Toluene-d8 (SURR**)	89%				
1-Bromo-4-Fluorobenzene (SURR**)	88%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Sat 2000R)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**

Project Description: Eagle Cleaners

Project Title: **Template: SATRW8021**

Sample: 299899 **Dup** (MW 2) **Collected: 12/11/02** **Analyzed: 12/20/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.12	0.43
Bromobenzene	ND	ug/L	1	0.12	0.43
Bromochloromethane	ND	ug/L	1	0.16	0.56
Bromodichloromethane	ND	ug/L	1	0.18	0.65
Bromoform	ND	ug/L	1	0.14	0.51
Bromomethane	ND	ug/L	1	0.61	2.2
n-Butylbenzene	ND	ug/L	1	0.13	0.47
sec-Butylbenzene	ND	ug/L	1	0.12	0.43
tert-Butylbenzene	ND	ug/L	1	0.12	0.37
Carbon Tetrachloride	ND	ug/L	1	0.10	0.37
Chlorobenzene	ND	ug/L	1	0.12	0.42
Chloroethane	ND	ug/L	1	1.1	4.1
Chloroform	[0.33]	ug/L	1	0.15	0.54
Chloromethane	ND	ug/L	1	0.15	0.54
2-Chlorotoluene	ND	ug/L	1	0.23	0.75
4-Chlorotoluene	ND	ug/L	1	0.15	0.52
Dibromochloromethane	ND	ug/L	1	0.15	0.55
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.23	0.81
1,2-Dibromoethane	ND	ug/L	1	0.14	0.52
Dibromomethane	ND	ug/L	1	0.19	0.68
1,2-Dichlorobenzene	ND	ug/L	1	0.11	0.41
1,3-Dichlorobenzene	ND	ug/L	1	0.37	1.3
1,4-Dichlorobenzene	ND	ug/L	1	0.25	0.79
Dichlorodifluoromethane	ND	ug/L	1	0.18	0.63
1,1-Dichloroethane	ND	ug/L	1	0.64	2.3
1,2-Dichloroethane	ND	ug/L	1	0.15	0.55
1,1-Dichloroethene	ND	ug/L	1	0.13	0.49
cis-1,2-Dichloroethene	ND	ug/L	1	0.28	1.0
trans-1,2-Dichloroethene	ND	ug/L	1	0.13	0.47
1,2-Dichloropropane	ND	ug/L	1	0.31	1.2
1,3-Dichloropropane	ND	ug/L	1	0.13	0.46
2,2-Dichloropropane	ND	ug/L	1	0.12	0.38
1,1-Dichloropropene	ND	ug/L	1	0.14	0.49
cis-1,3-Dichloropropene	ND	ug/L	1	0.15	0.54
trans-1,3-Dichloropropene	ND	ug/L	1	0.12	0.44
Ethylbenzene	ND	ug/L	1	0.18	0.58
Hexachlorobutadiene	ND	ug/L	1	0.20	0.71
Isopropylbenzene	ND	ug/L	1	0.14	0.48
p-Isopropyltoluene	ND	ug/L	1	0.14	0.50
Methylene chloride	ND	ug/L	1	0.24	0.86
Naphthalene	ND	ug/L	1	0.37	1.3
n-Propylbenzene	ND	ug/L	1	0.24	0.77
ortho-Xylene	ND	ug/L	1	0.21	0.67
Styrene	ND	ug/L	1	0.13	0.42
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.13	0.45
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.18	0.64
Tetrachloroethene	10	ug/L	1	0.10	0.37
Toluene	ND	ug/L	1	0.17	0.63
1,2,3-Trichlorobenzene	ND	ug/L	1	0.20	0.72
1,2,4-Trichlorobenzene	ND	ug/L	1	0.17	0.62
1,1,1-Trichloroethane	ND	ug/L	1	0.17	0.56
1,1,2-Trichloroethane	ND	ug/L	1	0.25	0.80
Trichloroethene	ND	ug/L	1	0.13	0.41

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Sat 2000R)

Customer: E.C.C.I. (RHI) **NLS Project: 70968**
Project Description: Eagle Cleaners
Project Title: **Template: SATRW8021**

Sample: 299899 Dup **Collected: 12/11/02** **Analyzed: 12/20/02**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/L	1	0.14	0.52
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.92
1,2,4-Trimethylbenzene	ND	ug/L	1	0.11	0.39
1,3,5-Trimethylbenzene	ND	ug/L	1	0.10	0.36
Vinyl chloride	ND	ug/L	1	0.18	0.63
meta,para-Xylene	ND	ug/L	1	0.35	1.1
MTBE	ND	ug/L	1	0.19	0.68
Isopropyl Ether	ND	ug/L	1	0.20	0.71
Dibromofluoromethane (SURR**)	87%				
Toluene-d8 (SURR**)	87%				
1-Bromo-4-Fluorobenzene (SURR**)	87%				

** Surrogates are used to evaluate a method's Quality Control.

S[illegible]PL[illegible]O[illegible]EC[illegible]N C[illegible]N [illegible]C[illegible]O[illegible]RD [illegible]THERN L[illegible]E [illegible]V[illegible] INC[illegible]

Wisconsin Lab Cert. No. 721026460

Analytical Laboratory and Environmental Services
400 North Lake Avenue • Crandon, WI 54520-1298
Tel: (715) 478-2777 • Fax: (715) 478-3060

NO. 58928

CLIENT	Eagle Cleaners
ADDRESS	320 E. Wall St.
CITY / STATE / ZIP	Eagle River / WI / 54521
PROJECT DESCRIPTION / NO.	Eagle Cleaners
QUOTATION NO.	101335
CONTACT	Tim Baker
PHONE	715 365 5200
PURCHASE ORDER NO.	
FAX	5201

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
TIS = tissue
AIR = air
DW = drinking water
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION DATE	COLLECTION TIME	MATRIX	N	N	N	Y	Y	N	Y					COLLECTION REMARKS
							VOC	Methane	Ethene	NO3+NO2-N	Sulfate	Chloride	Alkalinity					
1.	299887	GMW-1	12/11/02		GW												
2.	299888	GMW-2															
3.	299889	GMW-3															
4.	299890	GMW-4															
5.	299891	GMW-5															
6.	299892	GMW-6															
7.	299893	MMW-1															
8.	299894	MW-1								X	X	X	X				
9.	299895	MW-2								X	X	X	X				
10.	299896	MW-3	↓		↓		↓	↓	↓								

OFF SAMPLE PER LINE

COLLECTED BY (signature): Tim Baker — CUSTODY SEAL NO. (IF ANY) — DATE/TIME

RELINQUISHED BY (signature): Tim Baker — RECEIVED BY (signature) — DATE/TIME

DISPATCHED BY (signature) — METHOD OF TRANSPORT: Drive — DATE/TIME

RECEIVED AT NLS BY (signature): Debbie Gibson — DATE/TIME: 12/13/02 10:15 — CONDITION: cool — TEMP.

COOLER#

REMARKS & OTHER INFORMATION

WDNR FACILITY NUMBER — E-MAIL ADDRESS

REPORT TO: ECCI
Box 614
Rhinelander WI 54501 ~~54515~~

INVOICE TO: ~~Eagle Cleaners c/o~~ ECCI
Box 614
Rhinelander WI
54501

PRESERVATIVE:
NP = no preservative
S = sulfuric acid
N = nitric acid
Z = zinc acetate
M = methanol
OH = sodium hydroxide
HA = hydrochloric & ascorbic acid
H = hydrochloric acid

IMPORTANT:
1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE SHIPPER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS REPORT TO AND LISTED AS INVOICE TO AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

DUPLICATE COPY

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

Wisconsin Lab Cert. No. 721026460

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

NO. 58940

CLIENT	Eagle Cleaners
ADDRESS	320 E. Wall ST
CITY / STATE / ZIP	Eagle River WI 54521
PROJECT DESCRIPTION / NO.	Eagle Cleaners
QUOTATION NO.	101335
CONTACT	Tim Baker
PHONE	715 365 5200
PURCHASE ORDER NO.	
FAX	

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
TIS = tissue
AIR = air
DW = drinking water
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION DATE	COLLECTION TIME	MATRIX	ANALYZE PER ORDER OF ANALYSIS: VOC	Methane	Ethene	NO_3 to NO_3-N	Sulfate	chloride	Alkalinity					COLLECTION REMARKS
						N	N	N	Y	Y	N	Y					
1.	299897	PZ - 1	12/11/02		GW	X	X	X	X	X	X	X	X				
2.	299898	PZ - 2	↓		GW	X	X	X	X	X	X	X	X				
3.	299899																
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

ONE SAMPLE PER LINE

COLLECTED BY (signature) Tim Baker	CUSTODY SEAL NO. (IF ANY)	DATE/TIME
RELINQUISHED BY (signature) Tim Baker	RECEIVED BY (signature)	DATE/TIME
DISPATCHED BY (signature)	METHOD OF TRANSPORT Delivered	DATE/TIME

RECEIVED AT NLS BY (signature) Mae Chaney	DATE/TIME 12/13/02 11:15	CONDITION Good	TEMP.
COOLER #	REMARKS & OTHER INFORMATION		
	WDNR FACILITY NUMBER	E-MAIL ADDRESS	

REPORT TO
ECC I
Box 614
Rhinelander WI
54501

INVOICE TO Eagle Cleaners 410
ECC I
Box 614
Rhinelander WI 54501

PRESERVATIVE:
NP = no preservative
S = sulfuric acid
N = nitric acid
Z = zinc acetate
M = methanol
OH = sodium hydroxide
HA = hydrochloric & ascorbic acid
H = hydrochloric acid

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE SHIPPER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE. LISTED AS REPORT TO AND LISTED AS INVOICE TO AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105 000330
EPA Laboratory ID No. WI00034

Client: E.C.C.I. (RHI)
Attn: Chris Mattson
22 North Pelham Street
P O Box 614
Rhinelander,WI 54501 0614

RECEIVED SEP 2 2 2003

NLS Project: 75946
NLS Customer: 10510
Fax: 715 365 5201 Phone: 715 365 5200

Project: Eagle Cleaners 01607

GMW-1 NLS ID: 318071
Ref. Line 1 COC 63918 GMW-1 Matrix: GW
Collected: 08/19/03 15:20 Received: 08/23/03

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached					08/28/03	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030
Ethene by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030

GMW-2 NLS ID: 318072
Ref. Line 2 COC 63918 GMW-2 Matrix: GW
Collected: 08/19/03 10:00 Received: 08/23/03

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached					08/28/03	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030
Ethene by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030

GMW-3 NLS ID: 318073
Ref. Line 3 COC 63918 GMW-3 Matrix: GW
Collected: 08/19/03 11:30 Received: 08/23/03

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached					08/28/03	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030
Ethene by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030

GMW-4 NLS ID: 318074
Ref. Line 4 COC 63918 GMW-4 Matrix: GW
Collected: 08/19/03 13:50 Received: 08/23/03

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached					08/28/03	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030
Ethene by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030

GMW-5 NLS ID: 318075
Ref. Line 5 COC 63918 GMW-5 Matrix: GW
Collected: 08/19/03 10:45 Received: 08/23/03

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached					08/28/03	SW846 8021	721026460
Methane by EPA 8015	2.0	ug/L	1	0.50*		09/08/03	Modified 8015	157066030
Ethene by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030

GMW-6 NLS ID: 318076
Ref. Line 6 COC 63918 GMW-6 Matrix: GW
Collected: 08/19/03 14:15 Received: 08/23/03

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached					08/28/03	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030
Ethene by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105 000330
EPA Laboratory ID No. WI00034

NLS Project: 75946
NLS Customer: 10510

Client: E.C.C.I. (RHI)
Attn: Chris Mattson
22 North Pelham Street
P O Box 614
Rhinelander,WI 54501 0614

Fax: 715 365 5201 Phone: 715 365 5200

Project: Eagle Cleaners 01607

NMW-1 NLS ID: 318077
Ref. Line 7 COC 63918 NMW-1 Matrix: GW
Collected: 08/19/03 15:30 Received: 08/23/03

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached					08/29/03	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030
Ethene by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030

MW-1 NLS ID: 318078
Ref. Line 8 COC 63918 MW-1 Matrix: GW
Collected: 08/19/03 14:05 Received: 08/23/03

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Alkalinity, tot. as CaCO3 (filtered)	62	mg/L	1	1.0	2.0	08/29/03	EPA 310.1	721026460
Chloride, as Cl (filtered)	260	mg/L	40	10	20	08/27/03	SW846 9056	721026460
Nitrogen, NO2 + NO3 as N (filtered)	6.6	mg/L	5	0.25	0.50	08/28/03	EPA 353.2	721026460
Sulfate, as SO4 (filtered)	24	mg/L	40	10	20	08/27/03	SW846 9056	721026460
VOCs (water) by EPA 8021	see attached					08/29/03	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030
Ethene by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030

MW-2 NLS ID: 318079
Ref. Line 9 COC 63918 MW-2 Matrix: GW
Collected: 08/19/03 10:00 Received: 08/23/03

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Alkalinity, tot. as CaCO3 (filtered)	43	mg/L	1	1.0	2.0	08/29/03	EPA 310.1	721026460
Chloride, as Cl (filtered)	220	mg/L	20	5.0	10	08/27/03	SW846 9056	721026460
Nitrogen, NO2 + NO3 as N (filtered)	2.3	mg/L	5	0.25	0.50	08/28/03	EPA 353.2	721026460
Sulfate, as SO4 (filtered)	14	mg/L	20	5.0	10	08/27/03	SW846 9056	721026460
VOCs (water) by EPA 8021	see attached					08/29/03	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030
Ethene by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030

MW-3 NLS ID: 318080
Ref. Line 10 COC 63918 MW-3 Matrix: GW
Collected: 08/19/03 11:45 Received: 08/23/03

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Alkalinity, tot. as CaCO3 (filtered)	37	mg/L	1	1.0	2.0	08/29/03	EPA 310.1	721026460
Chloride, as Cl (filtered)	210	mg/L	20	5.0	10	08/27/03	SW846 9056	721026460
Nitrogen, NO2 + NO3 as N (filtered)	3.0	mg/L	5	0.25	0.50	08/28/03	EPA 353.2	721026460
Sulfate, as SO4 (filtered)	14	mg/L	20	5.0	10	08/27/03	SW846 9056	721026460
VOCs (water) by EPA 8021	see attached					08/29/03	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030
Ethene by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105 000330
EPA Laboratory ID No. WI00034

NLS Project: 75946
NLS Customer: 10510

Fax: 715 365 5201 Phone: 715 365 5200

Client: E.C.C.I. (RHI)
Attn: Chris Mattson
22 North Pelham Street
P O Box 614
Rhinelander,WI 54501 0614

Project: Eagle Cleaners 01607

PZ-1 NLS ID: 318081
Ref. Line 1 COC 63919 PZ-1 Matrix: GW
Collected: 08/19/03 10:30 Received: 08/23/03

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Alkalinity, tot. as CaCO3 (filtered)	81	mg/L	1	1.0	2.0	08/29/03	EPA 310.1	721026460
Chloride, as Cl (filtered)	45	mg/L	10	2.5	5.0	08/27/03	SW846 9056	721026460
Nitrogen, NO2 + NO3 as N (filtered)	0.56	mg/L	1	0.050	0.10	08/28/03	EPA 353.2	721026460
Sulfate, as SO4 (filtered)	8.5	mg/L	10	2.5	5.0	08/27/03	SW846 9056	721026460
VOCs (water) by EPA 8021	see attached					08/29/03	SW846 8021	721026460
Methane by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030
Ethene by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030

PZ-2 NLS ID: 318082
Ref. Line 2 COC 63919 PZ-2 Matrix: GW
Collected: 08/19/03 11:55 Received: 08/23/03

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Alkalinity, tot. as CaCO3 (filtered)	87	mg/L	1	1.0	2.0	08/29/03	EPA 310.1	721026460
Chloride, as Cl (filtered)	[4.2]	mg/L	10	2.5	5.0	08/27/03	SW846 9056	721026460
Nitrogen, NO2 + NO3 as N (filtered)	ND	mg/L	1	0.050	0.10	08/28/03	EPA 353.2	721026460
Sulfate, as SO4 (filtered)	9.2	mg/L	10	2.5	5.0	08/27/03	SW846 9056	721026460
VOCs (water) by EPA 8021	see attached					08/29/03	SW846 8021	721026460
Methane by EPA 8015	0.85	ug/L	1	0.50*		09/08/03	Modified 8015	157066030
Ethene by EPA 8015	ND	ug/L	1	0.50*		09/08/03	Modified 8015	157066030

Trip Blank NLS ID: 318083
Ref. Line 3 COC 63919 Trip Blank Matrix: TB
Collected: 08/19/03 00:00 Received: 08/23/03

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8021	see attached					09/18/03	SW846 8021	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection LOQ = Limit of Quantitation ND = Not Detected 1000 ug/L = 1 mg/L
DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000
MCL = Maximum Contaminant Levels for Drinking Water Samples

Reviewed by: Jerry R Bock

Authorized by:
R. T. Krueger
President

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 75946**

Project Description: Eagle Cleaners

Project Title: 01607 **Template: SAT2W8021** **Printed: 09/17/2003 09:51**

Sample: 318071 **GMW-1** **Collected: 08/19/03** **Analyzed: 08/28/03**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.23	0.78
Bromobenzene	ND	ug/L	1	0.19	0.65
Bromochloromethane	ND	ug/L	1	0.21	0.71
Bromodichloromethane	ND	ug/L	1	0.19	0.66
Bromoform	ND	ug/L	1	0.18	0.61
Bromomethane	ND	ug/L	1	0.24	0.84
n-Butylbenzene	ND	ug/L	1	0.23	0.80
sec-Butylbenzene	ND	ug/L	1	0.25	0.87
tert-Butylbenzene	ND	ug/L	1	0.25	0.87
Carbon Tetrachloride	ND	ug/L	1	0.18	0.61
Chlorobenzene	ND	ug/L	1	0.18	0.63
Chloroethane	ND	ug/L	1	1.0	3.5
Chloroform	ND	ug/L	1	0.21	0.72
Chloromethane	ND	ug/L	1	0.18	0.62
2-Chlorotoluene	ND	ug/L	1	0.22	0.76
4-Chlorotoluene	ND	ug/L	1	0.16	0.55
Dibromochloromethane	ND	ug/L	1	0.17	0.58
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.72
1,2-Dibromoethane	ND	ug/L	1	0.20	0.69
Dibromomethane	ND	ug/L	1	0.20	0.70
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.60
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.74
Dichlorodifluoromethane	ND	ug/L	1	0.25	0.87
1,1-Dichloroethane	ND	ug/L	1	0.22	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.69
1,1-Dichloroethene	ND	ug/L	1	0.26	0.91
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.74
trans-1,2-Dichloroethene	ND	ug/L	1	0.23	0.81
1,2-Dichloropropane	ND	ug/L	1	0.19	0.66
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62
2,2-Dichloropropane	ND	ug/L	1	0.25	0.87
1,1-Dichloropropene	ND	ug/L	1	0.17	0.59
cis-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
trans-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
Ethylbenzene	ND	ug/L	1	0.21	0.71
Hexachlorobutadiene	ND	ug/L	1	0.19	0.64
Isopropylbenzene	ND	ug/L	1	0.18	0.63
p-Isopropyltoluene	ND	ug/L	1	0.23	0.78
Methylene chloride	ND	ug/L	1	0.24	0.76
Naphthalene	ND	ug/L	1	0.39	1.4
n-Propylbenzene	ND	ug/L	1	0.27	0.93
ortho-Xylene	ND	ug/L	1	0.18	0.64
Styrene	ND	ug/L	1	0.17	0.60
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.67
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.21	0.71
Tetrachloroethene	11	ug/L	1	0.18	0.62
Toluene	ND	ug/L	1	0.23	0.81
1,2,3-Trichlorobenzene	ND	ug/L	1	0.29	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84
1,1,1-Trichloroethane	ND	ug/L	1	0.23	0.79
1,1,2-Trichloroethane	ND	ug/L	1	0.14	0.45

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 75946**

Project Description: Eagle Cleaners

Project Title: 01607 **Template: SAT2W8021** **Printed: 09/17/2003 09:51**

Sample: 318071 **GMW-1** **Collected: 08/19/03** **Analyzed: 08/28/03**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichloroethene	ND	ug/L	1	0.22	0.75
Trichlorofluoromethane	ND	ug/L	1	0.23	0.78
1,2,3-Trichloropropane	ND	ug/L	1	0.21	0.73
1,2,4-Trimethylbenzene	ND	ug/L	1	0.24	0.83
1,3,5-Trimethylbenzene	ND	ug/L	1	0.27	0.94
Vinyl chloride	ND	ug/L	1	0.18	0.68
meta,para-Xylene	ND	ug/L	1	0.37	1.3
MTBE	ND	ug/L	1	0.11	0.34
Isopropyl ether	ND	ug/L	1	0.19	0.65
Dibromofluoromethane (SURR**)	108%				
Toluene-d8 (SURR**)	110%				
1-Bromo-4-Fluorobenzene (SURR**)	108%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) NLS Project: 75946

Project Description: Eagle Cleaners

Project Title: 01607 Template: SAT2W8021 Printed: 09/17/2003 09:51

Sample: 318072 GMW-2 Collected: 08/19/03 Analyzed: 08/28/03

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.23	0.78
Bromobenzene	ND	ug/L	1	0.19	0.65
Bromochloromethane	ND	ug/L	1	0.21	0.71
Bromodichloromethane	ND	ug/L	1	0.19	0.66
Bromoform	ND	ug/L	1	0.18	0.61
Bromomethane	ND	ug/L	1	0.24	0.84
n-Butylbenzene	ND	ug/L	1	0.23	0.80
sec-Butylbenzene	ND	ug/L	1	0.25	0.87
tert-Butylbenzene	ND	ug/L	1	0.25	0.87
Carbon Tetrachloride	ND	ug/L	1	0.18	0.61
Chlorobenzene	ND	ug/L	1	0.18	0.63
Chloroethane	ND	ug/L	1	1.0	3.5
Chloroform	ND	ug/L	1	0.21	0.72
Chloromethane	ND	ug/L	1	0.18	0.62
2-Chlorotoluene	ND	ug/L	1	0.22	0.76
4-Chlorotoluene	ND	ug/L	1	0.16	0.55
Dibromochloromethane	ND	ug/L	1	0.17	0.58
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.72
1,2-Dibromoethane	ND	ug/L	1	0.20	0.69
Dibromomethane	ND	ug/L	1	0.20	0.70
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.60
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.74
Dichlorodifluoromethane	ND	ug/L	1	0.25	0.87
1,1-Dichloroethane	ND	ug/L	1	0.22	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.69
1,1-Dichloroethene	ND	ug/L	1	0.26	0.91
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.74
trans-1,2-Dichloroethene	ND	ug/L	1	0.23	0.81
1,2-Dichloropropane	ND	ug/L	1	0.19	0.66
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62
2,2-Dichloropropane	ND	ug/L	1	0.25	0.87
1,1-Dichloropropene	ND	ug/L	1	0.17	0.59
cis-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
trans-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
Ethylbenzene	ND	ug/L	1	0.21	0.71
Hexachlorobutadiene	ND	ug/L	1	0.19	0.64
Isopropylbenzene	ND	ug/L	1	0.18	0.63
p-Isopropyltoluene	ND	ug/L	1	0.23	0.78
Methylene chloride	ND	ug/L	1	0.24	0.76
Naphthalene	ND	ug/L	1	0.39	1.4
n-Propylbenzene	ND	ug/L	1	0.27	0.93
ortho-Xylene	ND	ug/L	1	0.18	0.64
Styrene	ND	ug/L	1	0.17	0.60
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.67
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.21	0.71
Tetrachloroethene	ND	ug/L	1	0.18	0.62
Toluene	ND	ug/L	1	0.23	0.81
1,2,3-Trichlorobenzene	ND	ug/L	1	0.29	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84
1,1,1-Trichloroethane	ND	ug/L	1	0.23	0.79
1,1,2-Trichloroethane	ND	ug/L	1	0.14	0.45

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) NLS Project: 75946

Project Description: Eagle Cleaners

Project Title: 01607 Template: SAT2W8021 Printed: 09/17/2003 09:51

Sample: 318072 GMW-2 Collected: 08/19/03 Analyzed: 08/28/03

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichloroethene	ND	ug/L	1	0.22	0.75
Trichlorofluoromethane	ND	ug/L	1	0.23	0.78
1,2,3-Trichloropropane	ND	ug/L	1	0.21	0.73
1,2,4-Trimethylbenzene	ND	ug/L	1	0.24	0.83
1,3,5-Trimethylbenzene	ND	ug/L	1	0.27	0.94
Vinyl chloride	ND	ug/L	1	0.18	0.68
meta,para-Xylene	ND	ug/L	1	0.37	1.3
MTBE	ND	ug/L	1	0.11	0.34
Isopropyl ether	ND	ug/L	1	0.19	0.65
Dibromofluoromethane (SURR**)	101%				
Toluene-d8 (SURR**)	102%				
1-Bromo-4-Fluorobenzene (SURR**)	100%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 75946**
Project Description: Eagle Cleaners
Project Title: 01607 **Template: SAT2W8021 Printed: 09/17/2003 09:51**

Sample: 318073 GMW-3 **Collected: 08/19/03** **Analyzed: 08/28/03**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.23	0.78
Bromobenzene	ND	ug/L	1	0.19	0.65
Bromochloromethane	ND	ug/L	1	0.21	0.71
Bromodichloromethane	ND	ug/L	1	0.19	0.66
Bromoform	ND	ug/L	1	0.18	0.61
Bromomethane	ND	ug/L	1	0.24	0.84
n-Butylbenzene	ND	ug/L	1	0.23	0.80
sec-Butylbenzene	ND	ug/L	1	0.25	0.87
tert-Butylbenzene	ND	ug/L	1	0.25	0.87
Carbon Tetrachloride	ND	ug/L	1	0.18	0.61
Chlorobenzene	ND	ug/L	1	0.18	0.63
Chloroethane	ND	ug/L	1	1.0	3.5
Chloroform	ND	ug/L	1	0.21	0.72
Chloromethane	ND	ug/L	1	0.18	0.62
2-Chlorotoluene	ND	ug/L	1	0.22	0.76
4-Chlorotoluene	ND	ug/L	1	0.16	0.55
Dibromochloromethane	ND	ug/L	1	0.17	0.58
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.72
1,2-Dibromoethane	ND	ug/L	1	0.20	0.69
Dibromomethane	ND	ug/L	1	0.20	0.70
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.60
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.74
Dichlorodifluoromethane	ND	ug/L	1	0.25	0.87
1,1-Dichloroethane	ND	ug/L	1	0.22	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.69
1,1-Dichloroethene	ND	ug/L	1	0.26	0.91
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.74
trans-1,2-Dichloroethene	ND	ug/L	1	0.23	0.81
1,2-Dichloropropane	ND	ug/L	1	0.19	0.66
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62
2,2-Dichloropropane	ND	ug/L	1	0.25	0.87
1,1-Dichloropropene	ND	ug/L	1	0.17	0.59
cis-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
trans-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
Ethylbenzene	ND	ug/L	1	0.21	0.71
Hexachlorobutadiene	ND	ug/L	1	0.19	0.64
Isopropylbenzene	ND	ug/L	1	0.18	0.63
p-Isopropyltoluene	ND	ug/L	1	0.23	0.78
Methylene chloride	ND	ug/L	1	0.24	0.76
Naphthalene	ND	ug/L	1	0.39	1.4
n-Propylbenzene	ND	ug/L	1	0.27	0.93
ortho-Xylene	ND	ug/L	1	0.18	0.64
Styrene	ND	ug/L	1	0.17	0.60
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.67
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.21	0.71
Tetrachloroethene	0.74	ug/L	1	0.18	0.62
Toluene	ND	ug/L	1	0.23	0.81
1,2,3-Trichlorobenzene	ND	ug/L	1	0.29	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84
1,1,1-Trichloroethane	ND	ug/L	1	0.23	0.79
1,1,2-Trichloroethane	ND	ug/L	1	0.14	0.45

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 75946**

Project Description: Eagle Cleaners

Project Title: 01607 **Template: SAT2W8021** **Printed: 09/17/2003 09:51**

Sample: 318073 **GMW-3** **Collected: 08/19/03** **Analyzed: 08/28/03**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichloroethene	ND	ug/L	1	0.22	0.75
Trichlorofluoromethane	ND	ug/L	1	0.23	0.78
1,2,3-Trichloropropane	ND	ug/L	1	0.21	0.73
1,2,4-Trimethylbenzene	ND	ug/L	1	0.24	0.83
1,3,5-Trimethylbenzene	ND	ug/L	1	0.27	0.94
Vinyl chloride	ND	ug/L	1	0.18	0.68
meta,para-Xylene	ND	ug/L	1	0.37	1.3
MTBE	ND	ug/L	1	0.11	0.34
Isopropyl ether	ND	ug/L	1	0.19	0.65
Dibromofluoromethane (SURR**)	110%				
Toluene-d8 (SURR**)	108%				
1-Bromo-4-Fluorobenzene (SURR**)	109%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) NLS Project: 75946

Project Description: Eagle Cleaners

Project Title: 01607 Template: SAT2W8021 Printed: 09/17/2003 09:51

Sample: 318074 GMW-4 Collected: 08/19/03 Analyzed: 08/28/03

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.23	0.78
Bromobenzene	ND	ug/L	1	0.19	0.65
Bromochloromethane	ND	ug/L	1	0.21	0.71
Bromodichloromethane	ND	ug/L	1	0.19	0.66
Bromoform	ND	ug/L	1	0.18	0.61
Bromomethane	ND	ug/L	1	0.24	0.84
n-Butylbenzene	ND	ug/L	1	0.23	0.80
sec-Butylbenzene	ND	ug/L	1	0.25	0.87
tert-Butylbenzene	ND	ug/L	1	0.25	0.87
Carbon Tetrachloride	ND	ug/L	1	0.18	0.61
Chlorobenzene	ND	ug/L	1	0.18	0.63
Chloroethane	ND	ug/L	1	1.0	3.5
Chloroform	ND	ug/L	1	0.21	0.72
Chloromethane	ND	ug/L	1	0.18	0.62
2-Chlorotoluene	ND	ug/L	1	0.22	0.76
4-Chlorotoluene	ND	ug/L	1	0.16	0.55
Dibromochloromethane	ND	ug/L	1	0.17	0.58
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.72
1,2-Dibromoethane	ND	ug/L	1	0.20	0.69
Dibromomethane	ND	ug/L	1	0.20	0.70
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.60
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.74
Dichlorodifluoromethane	ND	ug/L	1	0.25	0.87
1,1-Dichloroethane	ND	ug/L	1	0.22	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.69
1,1-Dichloroethene	ND	ug/L	1	0.26	0.91
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.74
trans-1,2-Dichloroethene	ND	ug/L	1	0.23	0.81
1,2-Dichloropropane	ND	ug/L	1	0.19	0.66
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62
2,2-Dichloropropane	ND	ug/L	1	0.25	0.87
1,1-Dichloropropene	ND	ug/L	1	0.17	0.59
cis-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
trans-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
Ethylbenzene	ND	ug/L	1	0.21	0.71
Hexachlorobutadiene	ND	ug/L	1	0.19	0.64
Isopropylbenzene	ND	ug/L	1	0.18	0.63
p-Isopropyltoluene	ND	ug/L	1	0.23	0.78
Methylene chloride	ND	ug/L	1	0.24	0.76
Naphthalene	ND	ug/L	1	0.39	1.4
n-Propylbenzene	ND	ug/L	1	0.27	0.93
ortho-Xylene	ND	ug/L	1	0.18	0.64
Styrene	ND	ug/L	1	0.17	0.60
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.67
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.21	0.71
Tetrachloroethene	ND	ug/L	1	0.18	0.62
Toluene	ND	ug/L	1	0.23	0.81
1,2,3-Trichlorobenzene	ND	ug/L	1	0.29	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84
1,1,1-Trichloroethane	ND	ug/L	1	0.23	0.79
1,1,2-Trichloroethane	ND	ug/L	1	0.14	0.45

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 75946**

Project Description: Eagle Cleaners

Project Title: 01607 **Template: SAT2W8021** **Printed: 09/17/2003 09:51**

Sample: 318074 **GMW-4** **Collected: 08/19/03** **Analyzed: 08/28/03**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichloroethene	ND	ug/L	1	0.22	0.75
Trichlorofluoromethane	ND	ug/L	1	0.23	0.78
1,2,3-Trichloropropane	ND	ug/L	1	0.21	0.73
1,2,4-Trimethylbenzene	ND	ug/L	1	0.24	0.83
1,3,5-Trimethylbenzene	ND	ug/L	1	0.27	0.94
Vinyl chloride	ND	ug/L	1	0.18	0.68
meta,para-Xylene	ND	ug/L	1	0.37	1.3
MTBE	ND	ug/L	1	0.11	0.34
Isopropyl ether	ND	ug/L	1	0.19	0.65
Dibromofluoromethane (SURR**)	96%				
Toluene-d8 (SURR**)	101%				
1-Bromo-4-Fluorobenzene (SURR**)	98%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 75946**
Project Description: Eagle Cleaners
Project Title: 01607 **Template: SAT2W8021 Printed: 09/17/2003 09:51**

Sample: 318075 GMW-5 **Collected: 08/19/03** **Analyzed: 08/28/03**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.23	0.78
Bromobenzene	ND	ug/L	1	0.19	0.65
Bromochloromethane	ND	ug/L	1	0.21	0.71
Bromodichloromethane	ND	ug/L	1	0.19	0.66
Bromoform	ND	ug/L	1	0.18	0.61
Bromomethane	ND	ug/L	1	0.24	0.84
n-Butylbenzene	ND	ug/L	1	0.23	0.80
sec-Butylbenzene	ND	ug/L	1	0.25	0.87
tert-Butylbenzene	ND	ug/L	1	0.25	0.87
Carbon Tetrachloride	ND	ug/L	1	0.18	0.61
Chlorobenzene	ND	ug/L	1	0.18	0.63
Chloroethane	ND	ug/L	1	1.0	3.5
Chloroform	ND	ug/L	1	0.21	0.72
Chloromethane	ND	ug/L	1	0.18	0.62
2-Chlorotoluene	ND	ug/L	1	0.22	0.76
4-Chlorotoluene	ND	ug/L	1	0.16	0.55
Dibromochloromethane	ND	ug/L	1	0.17	0.58
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.72
1,2-Dibromoethane	ND	ug/L	1	0.20	0.69
Dibromomethane	ND	ug/L	1	0.20	0.70
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.60
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.74
Dichlorodifluoromethane	ND	ug/L	1	0.25	0.87
1,1-Dichloroethane	ND	ug/L	1	0.22	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.69
1,1-Dichloroethene	ND	ug/L	1	0.26	0.91
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.74
trans-1,2-Dichloroethene	ND	ug/L	1	0.23	0.81
1,2-Dichloropropane	ND	ug/L	1	0.19	0.66
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62
2,2-Dichloropropane	ND	ug/L	1	0.25	0.87
1,1-Dichloropropene	ND	ug/L	1	0.17	0.59
cis-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
trans-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
Ethylbenzene	ND	ug/L	1	0.21	0.71
Hexachlorobutadiene	ND	ug/L	1	0.19	0.64
Isopropylbenzene	ND	ug/L	1	0.18	0.63
p-Isopropyltoluene	ND	ug/L	1	0.23	0.78
Methylene chloride	ND	ug/L	1	0.24	0.76
Naphthalene	ND	ug/L	1	0.39	1.4
n-Propylbenzene	ND	ug/L	1	0.27	0.93
ortho-Xylene	ND	ug/L	1	0.18	0.64
Styrene	ND	ug/L	1	0.17	0.60
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.67
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.21	0.71
Tetrachloroethene	ND	ug/L	1	0.18	0.62
Toluene	ND	ug/L	1	0.23	0.81
1,2,3-Trichlorobenzene	ND	ug/L	1	0.29	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84
1,1,1-Trichloroethane	ND	ug/L	1	0.23	0.79
1,1,2-Trichloroethane	ND	ug/L	1	0.14	0.45

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 75946**
Project Description: Eagle Cleaners
Project Title: 01607 **Template: SAT2W8021 Printed: 09/17/2003 09:51**

Sample: 318075 GMW-5 **Collected: 08/19/03** **Analyzed: 08/28/03**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichloroethene	ND	ug/L	1	0.22	0.75
Trichlorofluoromethane	ND	ug/L	1	0.23	0.78
1,2,3-Trichloropropane	ND	ug/L	1	0.21	0.73
1,2,4-Trimethylbenzene	ND	ug/L	1	0.24	0.83
1,3,5-Trimethylbenzene	ND	ug/L	1	0.27	0.94
Vinyl chloride	ND	ug/L	1	0.18	0.68
meta,para-Xylene	ND	ug/L	1	0.37	1.3
MTBE	ND	ug/L	1	0.11	0.34
Isopropyl ether	ND	ug/L	1	0.19	0.65
Dibromofluoromethane (SURR**)	102%				
Toluene-d8 (SURR**)	108%				
1-Bromo-4-Fluorobenzene (SURR**)	108%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) NLS Project: 75946

Project Description: Eagle Cleaners

Project Title: 01607 Template: SAT2W8021 Printed: 09/17/2003 09:51

Sample: 318076 GMW-6 Collected: 08/19/03 Analyzed: 08/28/03

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.23	0.78
Bromobenzene	ND	ug/L	1	0.19	0.65
Bromochloromethane	ND	ug/L	1	0.21	0.71
Bromodichloromethane	ND	ug/L	1	0.19	0.66
Bromoform	ND	ug/L	1	0.18	0.61
Bromomethane	ND	ug/L	1	0.24	0.84
n-Butylbenzene	ND	ug/L	1	0.23	0.80
sec-Butylbenzene	ND	ug/L	1	0.25	0.87
tert-Butylbenzene	ND	ug/L	1	0.25	0.87
Carbon Tetrachloride	ND	ug/L	1	0.18	0.61
Chlorobenzene	ND	ug/L	1	0.18	0.63
Chloroethane	ND	ug/L	1	1.0	3.5
Chloroform	ND	ug/L	1	0.21	0.72
Chloromethane	ND	ug/L	1	0.18	0.62
2-Chlorotoluene	ND	ug/L	1	0.22	0.76
4-Chlorotoluene	ND	ug/L	1	0.16	0.55
Dibromochloromethane	ND	ug/L	1	0.17	0.58
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.72
1,2-Dibromoethane	ND	ug/L	1	0.20	0.69
Dibromomethane	ND	ug/L	1	0.20	0.70
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.60
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.74
Dichlorodifluoromethane	ND	ug/L	1	0.25	0.87
1,1-Dichloroethane	ND	ug/L	1	0.22	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.69
1,1-Dichloroethene	ND	ug/L	1	0.26	0.91
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.74
trans-1,2-Dichloroethene	ND	ug/L	1	0.23	0.81
1,2-Dichloropropane	ND	ug/L	1	0.19	0.66
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62
2,2-Dichloropropane	ND	ug/L	1	0.25	0.87
1,1-Dichloropropene	ND	ug/L	1	0.17	0.59
cis-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
trans-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
Ethylbenzene	ND	ug/L	1	0.21	0.71
Hexachlorobutadiene	ND	ug/L	1	0.19	0.64
Isopropylbenzene	ND	ug/L	1	0.18	0.63
p-Isopropyltoluene	ND	ug/L	1	0.23	0.78
Methylene chloride	ND	ug/L	1	0.24	0.76
Naphthalene	ND	ug/L	1	0.39	1.4
n-Propylbenzene	ND	ug/L	1	0.27	0.93
ortho-Xylene	ND	ug/L	1	0.18	0.64
Styrene	ND	ug/L	1	0.17	0.60
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.67
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.21	0.71
Tetrachloroethene	1.3	ug/L	1	0.18	0.62
Toluene	ND	ug/L	1	0.23	0.81
1,2,3-Trichlorobenzene	ND	ug/L	1	0.29	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84
1,1,1-Trichloroethane	ND	ug/L	1	0.23	0.79
1,1,2-Trichloroethane	ND	ug/L	1	0.14	0.45

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 75946**

Project Description: Eagle Cleaners

Project Title: 01607 **Template: SAT2W8021** **Printed: 09/17/2003 09:51**

Sample: 318076 **GMW-6** **Collected: 08/19/03** **Analyzed: 08/28/03**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichloroethene	ND	ug/L	1	0.22	0.75
Trichlorofluoromethane	ND	ug/L	1	0.23	0.78
1,2,3-Trichloropropane	ND	ug/L	1	0.21	0.73
1,2,4-Trimethylbenzene	ND	ug/L	1	0.24	0.83
1,3,5-Trimethylbenzene	ND	ug/L	1	0.27	0.94
Vinyl chloride	ND	ug/L	1	0.18	0.68
meta,para-Xylene	ND	ug/L	1	0.37	1.3
MTBE	ND	ug/L	1	0.11	0.34
Isopropyl ether	ND	ug/L	1	0.19	0.65
Dibromofluoromethane (SURR**)	112%				
Toluene-d8 (SURR**)	112%				
1-Bromo-4-Fluorobenzene (SURR**)	112%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 75946**

Project Description: Eagle Cleaners

Project Title: 01607 **Template: SAT2W8021** **Printed: 09/17/2003 09:51**

Sample: 318077 **NMW-1** **Collected: 08/19/03** **Analyzed: 08/28/03**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.23	0.78
Bromobenzene	ND	ug/L	1	0.19	0.65
Bromochloromethane	ND	ug/L	1	0.21	0.71
Bromodichloromethane	ND	ug/L	1	0.19	0.66
Bromoform	ND	ug/L	1	0.18	0.61
Bromomethane	ND	ug/L	1	0.24	0.84
n-Butylbenzene	ND	ug/L	1	0.23	0.80
sec-Butylbenzene	ND	ug/L	1	0.25	0.87
tert-Butylbenzene	ND	ug/L	1	0.25	0.87
Carbon Tetrachloride	ND	ug/L	1	0.18	0.61
Chlorobenzene	ND	ug/L	1	0.18	0.63
Chloroethane	ND	ug/L	1	1.0	3.5
Chloroform	ND	ug/L	1	0.21	0.72
Chloromethane	ND	ug/L	1	0.18	0.62
2-Chlorotoluene	ND	ug/L	1	0.22	0.76
4-Chlorotoluene	ND	ug/L	1	0.16	0.55
Dibromochloromethane	ND	ug/L	1	0.17	0.58
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.72
1,2-Dibromoethane	ND	ug/L	1	0.20	0.69
Dibromomethane	ND	ug/L	1	0.20	0.70
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.60
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.74
Dichlorodifluoromethane	[0.30]	ug/L	1	0.25	0.87
1,1-Dichloroethane	ND	ug/L	1	0.22	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.69
1,1-Dichloroethene	ND	ug/L	1	0.26	0.91
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.74
trans-1,2-Dichloroethene	ND	ug/L	1	0.23	0.81
1,2-Dichloropropane	ND	ug/L	1	0.19	0.66
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62
2,2-Dichloropropane	ND	ug/L	1	0.25	0.87
1,1-Dichloropropene	ND	ug/L	1	0.17	0.59
cis-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
trans-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
Ethylbenzene	ND	ug/L	1	0.21	0.71
Hexachlorobutadiene	ND	ug/L	1	0.19	0.64
Isopropylbenzene	ND	ug/L	1	0.18	0.63
p-Isopropyltoluene	ND	ug/L	1	0.23	0.78
Methylene chloride	ND	ug/L	1	0.24	0.76
Naphthalene	ND	ug/L	1	0.39	1.4
n-Propylbenzene	ND	ug/L	1	0.27	0.93
ortho-Xylene	ND	ug/L	1	0.18	0.64
Styrene	ND	ug/L	1	0.17	0.60
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.67
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.21	0.71
Tetrachloroethene	31	ug/L	4	0.72	2.5
Toluene	ND	ug/L	1	0.23	0.81
1,2,3-Trichlorobenzene	ND	ug/L	1	0.29	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84
1,1,1-Trichloroethane	ND	ug/L	1	0.23	0.79
1,1,2-Trichloroethane	ND	ug/L	1	0.14	0.45

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) NLS Project: 75946

Project Description: Eagle Cleaners

Project Title: 01607 Template: SAT2W8021 Printed: 09/17/2003 09:51

Sample: 318077 NMW-1 Collected: 08/19/03 Analyzed: 08/28/03

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichloroethene	ND	ug/L	1	0.22	0.75
Trichlorofluoromethane	ND	ug/L	1	0.23	0.78
1,2,3-Trichloropropane	ND	ug/L	1	0.21	0.73
1,2,4-Trimethylbenzene	ND	ug/L	1	0.24	0.83
1,3,5-Trimethylbenzene	ND	ug/L	1	0.27	0.94
Vinyl chloride	ND	ug/L	1	0.18	0.68
meta,para-Xylene	ND	ug/L	1	0.37	1.3
MTBE	ND	ug/L	1	0.11	0.34
Isopropyl ether	ND	ug/L	1	0.19	0.65
Dibromofluoromethane (SURR**)	110%				
Toluene-d8 (SURR**)	111%				
1-Bromo-4-Fluorobenzene (SURR**)	110%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 75946**
Project Description: Eagle Cleaners
Project Title: 01607 **Template: SAT2W8021 Printed: 09/17/2003 09:51**

Sample: 318078 MW-1 **Collected: 08/19/03** **Analyzed: 08/29/03**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.23	0.78
Bromobenzene	ND	ug/L	1	0.19	0.65
Bromochloromethane	ND	ug/L	1	0.21	0.71
Bromodichloromethane	ND	ug/L	1	0.19	0.66
Bromoform	ND	ug/L	1	0.18	0.61
Bromomethane	ND	ug/L	1	0.24	0.84
n-Butylbenzene	ND	ug/L	1	0.23	0.80
sec-Butylbenzene	ND	ug/L	1	0.25	0.87
tert-Butylbenzene	ND	ug/L	1	0.25	0.87
Carbon Tetrachloride	ND	ug/L	1	0.18	0.61
Chlorobenzene	ND	ug/L	1	0.18	0.63
Chloroethane	ND	ug/L	1	1.0	3.5
Chloroform	ND	ug/L	1	0.21	0.72
Chloromethane	ND	ug/L	1	0.18	0.62
2-Chlorotoluene	ND	ug/L	1	0.22	0.76
4-Chlorotoluene	ND	ug/L	1	0.16	0.55
Dibromochloromethane	ND	ug/L	1	0.17	0.58
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.72
1,2-Dibromoethane	ND	ug/L	1	0.20	0.69
Dibromomethane	ND	ug/L	1	0.20	0.70
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.60
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.74
Dichlorodifluoromethane	[0.34]	ug/L	1	0.25	0.87
1,1-Dichloroethane	ND	ug/L	1	0.22	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.69
1,1-Dichloroethene	ND	ug/L	1	0.26	0.91
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.74
trans-1,2-Dichloroethene	ND	ug/L	1	0.23	0.81
1,2-Dichloropropane	ND	ug/L	1	0.19	0.66
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62
2,2-Dichloropropane	ND	ug/L	1	0.25	0.87
1,1-Dichloropropene	ND	ug/L	1	0.17	0.59
cis-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
trans-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
Ethylbenzene	ND	ug/L	1	0.21	0.71
Hexachlorobutadiene	ND	ug/L	1	0.19	0.64
Isopropylbenzene	ND	ug/L	1	0.18	0.63
p-Isopropyltoluene	ND	ug/L	1	0.23	0.78
Methylene chloride	ND	ug/L	1	0.24	0.76
Naphthalene	ND	ug/L	1	0.39	1.4
n-Propylbenzene	ND	ug/L	1	0.27	0.93
ortho-Xylene	ND	ug/L	1	0.18	0.64
Styrene	ND	ug/L	1	0.17	0.60
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.67
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.21	0.71
Tetrachloroethene	[0.61]	ug/L	1	0.18	0.62
Toluene	ND	ug/L	1	0.23	0.81
1,2,3-Trichlorobenzene	ND	ug/L	1	0.29	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84
1,1,1-Trichloroethane	ND	ug/L	1	0.23	0.79
1,1,2-Trichloroethane	ND	ug/L	1	0.14	0.45

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) NLS Project: 75946

Project Description: Eagle Cleaners

Project Title: 01607 Template: SAT2W8021 Printed: 09/17/2003 09:51

Sample: 318078 MW-1 Collected: 08/19/03 Analyzed: 08/29/03

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichloroethene	ND	ug/L	1	0.22	0.75
Trichlorofluoromethane	ND	ug/L	1	0.23	0.78
1,2,3-Trichloropropane	ND	ug/L	1	0.21	0.73
1,2,4-Trimethylbenzene	ND	ug/L	1	0.24	0.83
1,3,5-Trimethylbenzene	ND	ug/L	1	0.27	0.94
Vinyl chloride	ND	ug/L	1	0.18	0.68
meta,para-Xylene	ND	ug/L	1	0.37	1.3
MTBE	ND	ug/L	1	0.11	0.34
Isopropyl ether	ND	ug/L	1	0.19	0.65
Dibromofluoromethane (SURR**)	111%				
Toluene-d8 (SURR**)	114%				
1-Bromo-4-Fluorobenzene (SURR**)	115%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) NLS Project: 75946

Project Description: Eagle Cleaners

Project Title: 01607 Template: SAT2W8021 Printed: 09/17/2003 09:51

Sample: 318079 MW-2 Collected: 08/19/03 Analyzed: 08/29/03

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.23	0.78
Bromobenzene	ND	ug/L	1	0.19	0.65
Bromochloromethane	ND	ug/L	1	0.21	0.71
Bromodichloromethane	ND	ug/L	1	0.19	0.66
Bromoform	ND	ug/L	1	0.18	0.61
Bromomethane	ND	ug/L	1	0.24	0.84
n-Butylbenzene	ND	ug/L	1	0.23	0.80
sec-Butylbenzene	ND	ug/L	1	0.25	0.87
tert-Butylbenzene	ND	ug/L	1	0.25	0.87
Carbon Tetrachloride	ND	ug/L	1	0.18	0.61
Chlorobenzene	ND	ug/L	1	0.18	0.63
Chloroethane	ND	ug/L	1	1.0	3.5
Chloroform	[0.45]	ug/L	1	0.21	0.72
Chloromethane	ND	ug/L	1	0.18	0.62
2-Chlorotoluene	ND	ug/L	1	0.22	0.76
4-Chlorotoluene	ND	ug/L	1	0.16	0.55
Dibromochloromethane	ND	ug/L	1	0.17	0.58
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.72
1,2-Dibromoethane	ND	ug/L	1	0.20	0.69
Dibromomethane	ND	ug/L	1	0.20	0.70
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.60
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.74
Dichlorodifluoromethane	ND	ug/L	1	0.25	0.87
1,1-Dichloroethane	ND	ug/L	1	0.22	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.69
1,1-Dichloroethene	ND	ug/L	1	0.26	0.91
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.74
trans-1,2-Dichloroethene	ND	ug/L	1	0.23	0.81
1,2-Dichloropropane	ND	ug/L	1	0.19	0.66
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62
2,2-Dichloropropane	ND	ug/L	1	0.25	0.87
1,1-Dichloropropene	ND	ug/L	1	0.17	0.59
cis-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
trans-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
Ethylbenzene	ND	ug/L	1	0.21	0.71
Hexachlorobutadiene	ND	ug/L	1	0.19	0.64
Isopropylbenzene	ND	ug/L	1	0.18	0.63
p-Isopropyltoluene	ND	ug/L	1	0.23	0.78
Methylene chloride	ND	ug/L	1	0.24	0.76
Naphthalene	ND	ug/L	1	0.39	1.4
n-Propylbenzene	ND	ug/L	1	0.27	0.93
ortho-Xylene	ND	ug/L	1	0.18	0.64
Styrene	ND	ug/L	1	0.17	0.60
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.67
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.21	0.71
Tetrachloroethene	9.9	ug/L	1	0.18	0.62
Toluene	ND	ug/L	1	0.23	0.81
1,2,3-Trichlorobenzene	ND	ug/L	1	0.29	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84
1,1,1-Trichloroethane	ND	ug/L	1	0.23	0.79
1,1,2-Trichloroethane	ND	ug/L	1	0.14	0.45

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) NLS Project: 75946

Project Description: Eagle Cleaners

Project Title: 01607 Template: SAT2W8021 Printed: 09/17/2003 09:51

Sample: 318079 MW-2 Collected: 08/19/03 Analyzed: 08/29/03

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichloroethene	ND	ug/L	1	0.22	0.75
Trichlorofluoromethane	ND	ug/L	1	0.23	0.78
1,2,3-Trichloropropane	ND	ug/L	1	0.21	0.73
1,2,4-Trimethylbenzene	ND	ug/L	1	0.24	0.83
1,3,5-Trimethylbenzene	ND	ug/L	1	0.27	0.94
Vinyl chloride	ND	ug/L	1	0.18	0.68
meta,para-Xylene	ND	ug/L	1	0.37	1.3
MTBE	ND	ug/L	1	0.11	0.34
Isopropyl ether	ND	ug/L	1	0.19	0.65
Dibromofluoromethane (SURR**)	99%				
Toluene-d8 (SURR**)	101%				
1-Bromo-4-Fluorobenzene (SURR**)	98%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 75946**

Project Description: Eagle Cleaners

Project Title: 01607 **Template: SAT2W8021 Printed: 09/17/2003 09:51**

Sample: 318080 MW-3 **Collected: 08/19/03** **Analyzed: 08/29/03**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.23	0.78
Bromobenzene	ND	ug/L	1	0.19	0.65
Bromochloromethane	ND	ug/L	1	0.21	0.71
Bromodichloromethane	ND	ug/L	1	0.19	0.66
Bromoform	ND	ug/L	1	0.18	0.61
Bromomethane	ND	ug/L	1	0.24	0.84
n-Butylbenzene	ND	ug/L	1	0.23	0.80
sec-Butylbenzene	ND	ug/L	1	0.25	0.87
tert-Butylbenzene	ND	ug/L	1	0.25	0.87
Carbon Tetrachloride	ND	ug/L	1	0.18	0.61
Chlorobenzene	ND	ug/L	1	0.18	0.63
Chloroethane	ND	ug/L	1	1.0	3.5
Chloroform	ND	ug/L	1	0.21	0.72
Chloromethane	ND	ug/L	1	0.18	0.62
2-Chlorotoluene	ND	ug/L	1	0.22	0.76
4-Chlorotoluene	ND	ug/L	1	0.16	0.55
Dibromochloromethane	ND	ug/L	1	0.17	0.58
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.72
1,2-Dibromoethane	ND	ug/L	1	0.20	0.69
Dibromomethane	ND	ug/L	1	0.20	0.70
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.60
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.74
Dichlorodifluoromethane	ND	ug/L	1	0.25	0.87
1,1-Dichloroethane	ND	ug/L	1	0.22	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.69
1,1-Dichloroethene	ND	ug/L	1	0.26	0.91
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.74
trans-1,2-Dichloroethene	ND	ug/L	1	0.23	0.81
1,2-Dichloropropane	ND	ug/L	1	0.19	0.66
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62
2,2-Dichloropropane	ND	ug/L	1	0.25	0.87
1,1-Dichloropropene	ND	ug/L	1	0.17	0.59
cis-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
trans-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
Ethylbenzene	ND	ug/L	1	0.21	0.71
Hexachlorobutadiene	ND	ug/L	1	0.19	0.64
Isopropylbenzene	ND	ug/L	1	0.18	0.63
p-Isopropyltoluene	ND	ug/L	1	0.23	0.78
Methylene chloride	ND	ug/L	1	0.24	0.76
Naphthalene	ND	ug/L	1	0.39	1.4
n-Propylbenzene	ND	ug/L	1	0.27	0.93
ortho-Xylene	ND	ug/L	1	0.18	0.64
Styrene	ND	ug/L	1	0.17	0.60
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.67
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.21	0.71
Tetrachloroethene	1.4	ug/L	1	0.18	0.62
Toluene	ND	ug/L	1	0.23	0.81
1,2,3-Trichlorobenzene	ND	ug/L	1	0.29	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84
1,1,1-Trichloroethane	ND	ug/L	1	0.23	0.79
1,1,2-Trichloroethane	ND	ug/L	1	0.14	0.45

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) NLS Project: 75946

Project Description: Eagle Cleaners

Project Title: 01607 Template: SAT2W8021 Printed: 09/17/2003 09:51

Sample: 318080 MW-3 Collected: 08/19/03 Analyzed: 08/29/03

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichloroethene	ND	ug/L	1	0.22	0.75
Trichlorofluoromethane	ND	ug/L	1	0.23	0.78
1,2,3-Trichloropropane	ND	ug/L	1	0.21	0.73
1,2,4-Trimethylbenzene	ND	ug/L	1	0.24	0.83
1,3,5-Trimethylbenzene	ND	ug/L	1	0.27	0.94
Vinyl chloride	ND	ug/L	1	0.18	0.68
meta,para-Xylene	ND	ug/L	1	0.37	1.3
MTBE	ND	ug/L	1	0.11	0.34
Isopropyl ether	ND	ug/L	1	0.19	0.65
Dibromofluoromethane (SURR**)	111%				
Toluene-d8 (SURR**)	112%				
1-Bromo-4-Fluorobenzene (SURR**)	114%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) NLS Project: 75946

Project Description: Eagle Cleaners

Project Title: 01607 Template: SAT2W8021 Printed: 09/17/2003 09:51

Sample: 318081 PZ-1 Collected: 08/19/03 Analyzed: 08/29/03

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.23	0.78
Bromobenzene	ND	ug/L	1	0.19	0.65
Bromochloromethane	ND	ug/L	1	0.21	0.71
Bromodichloromethane	ND	ug/L	1	0.19	0.66
Bromoform	ND	ug/L	1	0.18	0.61
Bromomethane	ND	ug/L	1	0.24	0.84
n-Butylbenzene	ND	ug/L	1	0.23	0.80
sec-Butylbenzene	ND	ug/L	1	0.25	0.87
tert-Butylbenzene	ND	ug/L	1	0.25	0.87
Carbon Tetrachloride	ND	ug/L	1	0.18	0.61
Chlorobenzene	ND	ug/L	1	0.18	0.63
Chloroethane	ND	ug/L	1	1.0	3.5
Chloroform	ND	ug/L	1	0.21	0.72
Chloromethane	ND	ug/L	1	0.18	0.62
2-Chlorotoluene	ND	ug/L	1	0.22	0.76
4-Chlorotoluene	ND	ug/L	1	0.16	0.55
Dibromochloromethane	ND	ug/L	1	0.17	0.58
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.72
1,2-Dibromoethane	ND	ug/L	1	0.20	0.69
Dibromomethane	ND	ug/L	1	0.20	0.70
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.60
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.74
Dichlorodifluoromethane	ND	ug/L	1	0.25	0.87
1,1-Dichloroethane	ND	ug/L	1	0.22	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.69
1,1-Dichloroethene	ND	ug/L	1	0.26	0.91
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.74
trans-1,2-Dichloroethene	ND	ug/L	1	0.23	0.81
1,2-Dichloropropane	ND	ug/L	1	0.19	0.66
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62
2,2-Dichloropropane	ND	ug/L	1	0.25	0.87
1,1-Dichloropropene	ND	ug/L	1	0.17	0.59
cis-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
trans-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
Ethylbenzene	ND	ug/L	1	0.21	0.71
Hexachlorobutadiene	ND	ug/L	1	0.19	0.64
Isopropylbenzene	ND	ug/L	1	0.18	0.63
p-Isopropyltoluene	ND	ug/L	1	0.23	0.78
Methylene chloride	ND	ug/L	1	0.24	0.76
Naphthalene	ND	ug/L	1	0.39	1.4
n-Propylbenzene	ND	ug/L	1	0.27	0.93
ortho-Xylene	ND	ug/L	1	0.18	0.64
Styrene	ND	ug/L	1	0.17	0.60
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.67
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.21	0.71
Tetrachloroethene	ND	ug/L	1	0.18	0.62
Toluene	ND	ug/L	1	0.23	0.81
1,2,3-Trichlorobenzene	ND	ug/L	1	0.29	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84
1,1,1-Trichloroethane	ND	ug/L	1	0.23	0.79
1,1,2-Trichloroethane	ND	ug/L	1	0.14	0.45

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) NLS Project: 75946

Project Description: Eagle Cleaners

Project Title: 01607 Template: SAT2W8021 Printed: 09/17/2003 09:51

Sample: 318081 PZ-1 Collected: 08/19/03 Analyzed: 08/29/03

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichloroethene	ND	ug/L	1	0.22	0.75
Trichlorofluoromethane	ND	ug/L	1	0.23	0.78
1,2,3-Trichloropropane	ND	ug/L	1	0.21	0.73
1,2,4-Trimethylbenzene	ND	ug/L	1	0.24	0.83
1,3,5-Trimethylbenzene	ND	ug/L	1	0.27	0.94
Vinyl chloride	ND	ug/L	1	0.18	0.68
meta,para-Xylene	ND	ug/L	1	0.37	1.3
MTBE	ND	ug/L	1	0.11	0.34
Isopropyl ether	ND	ug/L	1	0.19	0.65
Dibromofluoromethane (SURR**)	98%				
Toluene-d8 (SURR**)	102%				
1-Bromo-4-Fluorobenzene (SURR**)	102%				

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) NLS Project: 75946

Project Description: Eagle Cleaners

Project Title: 01607 Template: SAT2W8021 Printed: 09/17/2003 09:51

Sample: 318082 PZ-2 Collected: 08/19/03 Analyzed: 08/29/03

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.23	0.78
Bromobenzene	ND	ug/L	1	0.19	0.65
Bromochloromethane	ND	ug/L	1	0.21	0.71
Bromodichloromethane	ND	ug/L	1	0.19	0.66
Bromoform	ND	ug/L	1	0.18	0.61
Bromomethane	ND	ug/L	1	0.24	0.84
n-Butylbenzene	ND	ug/L	1	0.23	0.80
sec-Butylbenzene	ND	ug/L	1	0.25	0.87
tert-Butylbenzene	ND	ug/L	1	0.25	0.87
Carbon Tetrachloride	ND	ug/L	1	0.18	0.61
Chlorobenzene	ND	ug/L	1	0.18	0.63
Chloroethane	ND	ug/L	1	1.0	3.5
Chloroform	ND	ug/L	1	0.21	0.72
Chloromethane	ND	ug/L	1	0.18	0.62
2-Chlorotoluene	ND	ug/L	1	0.22	0.76
4-Chlorotoluene	ND	ug/L	1	0.16	0.55
Dibromochloromethane	ND	ug/L	1	0.17	0.58
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.72
1,2-Dibromoethane	ND	ug/L	1	0.20	0.69
Dibromomethane	ND	ug/L	1	0.20	0.70
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.60
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.74
Dichlorodifluoromethane	ND	ug/L	1	0.25	0.87
1,1-Dichloroethane	ND	ug/L	1	0.22	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.69
1,1-Dichloroethene	ND	ug/L	1	0.26	0.91
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.74
trans-1,2-Dichloroethene	ND	ug/L	1	0.23	0.81
1,2-Dichloropropane	ND	ug/L	1	0.19	0.66
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62
2,2-Dichloropropane	ND	ug/L	1	0.25	0.87
1,1-Dichloropropene	ND	ug/L	1	0.17	0.59
cis-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
trans-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
Ethylbenzene	ND	ug/L	1	0.21	0.71
Hexachlorobutadiene	ND	ug/L	1	0.19	0.64
Isopropylbenzene	ND	ug/L	1	0.18	0.63
p-Isopropyltoluene	ND	ug/L	1	0.23	0.78
Methylene chloride	ND	ug/L	1	0.24	0.76
Naphthalene	ND	ug/L	1	0.39	1.4
n-Propylbenzene	ND	ug/L	1	0.27	0.93
ortho-Xylene	ND	ug/L	1	0.18	0.64
Styrene	ND	ug/L	1	0.17	0.60
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.67
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.21	0.71
Tetrachloroethene	ND	ug/L	1	0.18	0.62
Toluene	ND	ug/L	1	0.23	0.81
1,2,3-Trichlorobenzene	ND	ug/L	1	0.29	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84
1,1,1-Trichloroethane	ND	ug/L	1	0.23	0.79
1,1,2-Trichloroethane	ND	ug/L	1	0.14	0.45

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 75946**

Project Description: Eagle Cleaners

Project Title: 01607 **Template: SAT2W8021** **Printed: 09/17/2003 09:51**

Sample: 318082 **PZ-2** **Collected: 08/19/03** **Analyzed: 08/29/03**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichloroethene	ND	ug/L	1	0.22	0.75
Trichlorofluoromethane	ND	ug/L	1	0.23	0.78
1,2,3-Trichloropropane	ND	ug/L	1	0.21	0.73
1,2,4-Trimethylbenzene	ND	ug/L	1	0.24	0.83
1,3,5-Trimethylbenzene	ND	ug/L	1	0.27	0.94
Vinyl chloride	ND	ug/L	1	0.18	0.68
meta,para-Xylene	ND	ug/L	1	0.37	1.3
MTBE	ND	ug/L	1	0.11	0.34
Isopropyl ether	ND	ug/L	1	0.19	0.65
Dibromofluoromethane (SURR**)	96%				
Toluene-d8 (SURR**)	97%				
1-Bromo-4-Fluorobenzene (SURR**)	101%				

** Surrogates are used to evaluate a method's Quality Control.

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 75946**
Project Description: Eagle Cleaners
Project Title: 01607 **Template: SAT2W8021 Printed: 09/19/2003 07:49**

Sample: 318083 Trip Blank **Collected: 08/19/03** **Analyzed: 09/18/03**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/L	1	0.23	0.78
Bromobenzene	ND	ug/L	1	0.19	0.65
Bromochloromethane	ND	ug/L	1	0.21	0.71
Bromodichloromethane	ND	ug/L	1	0.19	0.66
Bromoform	ND	ug/L	1	0.18	0.61
Bromomethane	ND	ug/L	1	0.24	0.84
n-Butylbenzene	ND	ug/L	1	0.23	0.80
sec-Butylbenzene	ND	ug/L	1	0.25	0.87
tert-Butylbenzene	ND	ug/L	1	0.25	0.87
Carbon Tetrachloride	ND	ug/L	1	0.18	0.61
Chlorobenzene	ND	ug/L	1	0.18	0.63
Chloroethane	ND	ug/L	1	1.0	3.5
Chloroform	ND	ug/L	1	0.21	0.72
Chloromethane	ND	ug/L	1	0.18	0.62
2-Chlorotoluene	ND	ug/L	1	0.22	0.76
4-Chlorotoluene	ND	ug/L	1	0.16	0.55
Dibromochloromethane	ND	ug/L	1	0.17	0.58
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.21	0.72
1,2-Dibromoethane	ND	ug/L	1	0.20	0.69
Dibromomethane	ND	ug/L	1	0.20	0.70
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.60
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.70
1,4-Dichlorobenzene	ND	ug/L	1	0.21	0.74
Dichlorodifluoromethane	ND	ug/L	1	0.25	0.87
1,1-Dichloroethane	ND	ug/L	1	0.22	0.74
1,2-Dichloroethane	ND	ug/L	1	0.20	0.69
1,1-Dichloroethene	ND	ug/L	1	0.26	0.91
cis-1,2-Dichloroethene	ND	ug/L	1	0.22	0.74
trans-1,2-Dichloroethene	ND	ug/L	1	0.23	0.81
1,2-Dichloropropane	ND	ug/L	1	0.19	0.66
1,3-Dichloropropane	ND	ug/L	1	0.18	0.62
2,2-Dichloropropane	ND	ug/L	1	0.25	0.87
1,1-Dichloropropene	ND	ug/L	1	0.17	0.59
cis-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
trans-1,3-Dichloropropene	ND	ug/L	1	0.23	0.80
Ethylbenzene	ND	ug/L	1	0.21	0.71
Hexachlorobutadiene	ND	ug/L	1	0.19	0.64
Isopropylbenzene	ND	ug/L	1	0.18	0.63
p-Isopropyltoluene	ND	ug/L	1	0.23	0.78
Methylene chloride	ND	ug/L	1	0.24	0.76
Naphthalene	ND	ug/L	1	0.39	1.4
n-Propylbenzene	ND	ug/L	1	0.27	0.93
ortho-Xylene	ND	ug/L	1	0.18	0.64
Styrene	ND	ug/L	1	0.17	0.60
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.19	0.67
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.21	0.71
Tetrachloroethene	ND	ug/L	1	0.18	0.62
Toluene	ND	ug/L	1	0.23	0.81
1,2,3-Trichlorobenzene	ND	ug/L	1	0.29	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1	0.24	0.84
1,1,1-Trichloroethane	ND	ug/L	1	0.23	0.79
1,1,2-Trichloroethane	ND	ug/L	1	0.14	0.45

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2)

Customer: E.C.C.I. (RHI) **NLS Project: 75946**
Project Description: Eagle Cleaners
Project Title: 01607 **Template: SAT2W8021 Printed: 09/19/2003 07:49**

Sample: 318083 **Trip Blank** **Collected: 08/19/03** **Analyzed: 09/18/03**

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichloroethene	ND	ug/L	1	0.22	0.75
Trichlorofluoromethane	ND	ug/L	1	0.23	0.78
1,2,3-Trichloropropane	ND	ug/L	1	0.21	0.73
1,2,4-Trimethylbenzene	ND	ug/L	1	0.24	0.83
1,3,5-Trimethylbenzene	ND	ug/L	1	0.27	0.94
Vinyl chloride	ND	ug/L	1	0.18	0.68
meta,para-Xylene	ND	ug/L	1	0.37	1.3
MTBE	ND	ug/L	1	0.11	0.34
Isopropyl ether	ND	ug/L	1	0.19	0.65
Dibromofluoromethane (SURR**)	114%				
Toluene-d8 (SURR**)	115%				
1-Bromo-4-Fluorobenzene (SURR**)	107%				

** Surrogates are used to evaluate a method's Quality Control.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

Wisconsin Lab Cert. No. 721026460

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

NO. 63918

Pg 1 of 2

CLIENT	Eagle Cleaners
ADDRESS	320 E. Wall St.
CITY / STATE / ZIP	Eagle River / WI / 54521
PROJECT DESCRIPTION / NO.	Eagle Cleaners / 01607
QUOTATION NO.	101335
CONTACT	Chris Matteson
PHONE	715-365-5200
PURCHASE ORDER NO.	
FAX	-5201

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
TIS = tissue
AIR = air
DW = drinking water
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION DATE	COLLECTION TIME	MATRIX	VOC	Methane	Ethene	Chloride	Sulfate	NO2&NO3-N	Alkalinity					COLLECTION REMARKS
						N	N	N	Y	Y	Y	Y					
1.	318071	GMW-1	19/Aug/03	3:20	GW												
2.	318072	GMW-2		10:00													
3.	318073	GMW-3		11:30													
4.	318074	GMW-4		1:50													
5.	318075	GMW-5		10:45													
6.	318076	GMW-6		2:15													
7.	318077	MW-1		3:30													
8.	318078	MW-01		2:05					X	X	X	X					
9.	318079	MW-2		10:00					X	X	X	X					
10.	318080	MW-3		11:45					X	X	X	X					

USE ONE LINE PER LINE

COLLECTED BY (signature)	CUSTODY SEAL NO. (IF ANY)	DATE/TIME
RELINQUISHED BY (signature)	RECEIVED BY (signature)	DATE/TIME 22Aug03 9:00AM
DISPATCHED BY (signature)	METHOD OF TRANSPORT	DATE/TIME

REPORT TO
ECCI
c/o Eagle Cleaners
P.O. Box 614
Rhinelander, WI 54501

INVOICE TO
Larry Favorite
c/o ECCI
P.O. Box 614
Rhinelander, WI 54501

RECEIVED AT NLS BY (signature)	DATE/TIME 8/23/2003	CONDITION Cool	TEMP.
COOLER #	REMARKS & OTHER INFORMATION		
WDNR FACILITY NUMBER	E-MAIL ADDRESS		

PRESERVATIVE:
N = nitric acid
NP = no preservative
S = sulfuric acid
Z = zinc acetate
M = methanol
OH = sodium hydroxide
HA = hydrochloric & ascorbic acid
H = hydrochloric acid

IMPORTANT:

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM MUST BE COMPLETED IN DETAIL AND INCLUDED IN THE SHIPPER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, NOT PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS REPORT TO AND LISTED AS INVOICE TO AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

DUPLICATE COPY

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

Wisconsin Lab Cert. No. 721026460

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue • Crandon, WI 54520-1298
Tel: (715) 478-2777 • Fax: (715) 478-3060

NO. 63919

Pg 2 of 2

CLIENT: Eagle Cleaners

ADDRESS: 330 E. Wall St.

CITY: Eagle River | STATE: WI | ZIP: 54521

PROJECT DESCRIPTION / NO.: Eagle Cleaners / 0160077 | QUOTATION NO.: 101335

CONTACT: Chris Mattson | PHONE: 715-365-5900

PURCHASE ORDER NO.: | FAX: -5211

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
TIS = tissue
AIR = air
DW = drinking water
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS

							VOC	Methane	Ethene	Chloride	Sulfate	$NO_2 + NO_3$ - N	Alkalinity					
Field filtered							N	N	N	Y	Y	Y	Y					
ITEM NO.	**NLS LAB. NO.**	**SAMPLE ID**	**COLLECTION DATE**	**COLLECTION TIME**	**MATRIX**													**COLLECTION REMARKS**
1.	318081	PZ-1	19Aug03	10:30	GW		↓	↓	↓	↓	↓	↓	↓					Filtering trouble
2.	318082	PZ-2	↓	11:55	↓		↓	↓	↓	↓	↓	↓	↓					
3.	318083	Trip Blank																
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

ONE SAMPLE PER LINE

COLLECTED BY (signature): Chris Mattson | CUSTODY SEAL NO. (IF ANY) | DATE/TIME

RELINQUISHED BY (signature): Chris Mattson | RECEIVED BY (signature) | DATE/TIME: 22Aug03 9:00AM

DISPATCHED BY (signature) | METHOD OF TRANSPORT | DATE/TIME

REPORT TO: Same as Page 1

INVOICE TO: Same as Page 1

RECEIVED AT NLS BY (signature): [illegible] | DATE/TIME: [illegible] | CONDITION | TEMP.

COOLER #

REMARKS & OTHER INFORMATION

WDNR FACILITY NUMBER | E-MAIL ADDRESS

PRESERVATIVE:
NP = no preservative; N = nitric acid; OH = sodium hydroxide
S = sulfuric acid; Z = zinc acetate; HA = hydrochloric & ascorbic acid
M = methanol; H = hydrochloric acid

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Table 1, Site Investigation Soil Field Screening Results, Eagle Cleaners, Eagle River, Wisconsin

Boring Number	Sample Label	Depth (feet)	Sample Description	Date Collected	PID Headspace Analysis			
					Time Collected	Date Analyzed	Time Analyzed	PID Response (iui)
GP100	S101	0-4	Sand	12/20/99	1502	12/21/99	0800	1
	S102	4-8	Sand	12/20/99	1506	12/21/99	0805	6
	S103*	8-12	Sand	12/20/99	1513	12/21/99	0810	9
	S104	12-16	Sand	12/20/99	1520	12/21/99	0815	5
GP200	S201	0-4	Sand	12/20/99	1547	12/21/99	0820	6
	S202*	4-8	Sand	12/20/99	1553	12/21/99	0825	5
	S203	8-12	Sand	12/20/99	1558	12/21/99	0830	5
	S204	12-16	Sand	12/20/99	1603	12/21/99	0835	5
GP300	S301	0-4	Sand	12/20/99	1646	12/21/99	0845	5
	S302	4-8	Sand	12/20/99	1653	12/21/99	0850	6
	S303	8-12	Sand	12/20/99	1700	12/21/99	0855	6
	S304*	12-16	Sand	12/20/99	1709	12/21/99	0900	6
HA	HA1	3	Sand	12/20/99	1350	12/21/99	1000	3
	HA2	6	Sand	12/20/99	1420	12/21/99	1005	3
	HA3*	9	Sand	12/20/99	1450	12/21/99	1010	4
	HA4	12	Sand	12/20/99	1520	12/21/99	1015	4

NOTE:

PID = Photoionization Detector

iui = instrument units as isobutylene

* = submitted for laboratory analysis

--- = no sample recovered

HA = Hand Auger

Table 2, Soil Analytical Results, Eagle Cleaners, Eagle River, Wisconsin

Boring Number	Sample Number	Sample Depth (feet)	Date Sampled	QC Hold Time Met	Relevant and Significant Analytical Results (µg/kg) VOCs				
					Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene
WDNR Residual Contaminant Level (RCL)					0.6	7	0.5	68.6	0.5
GP100	S103	8-12	12/20/99	Yes	<25	<25	<25	<25	<25
GP200	S202	4-8	12/20/99	Yes	<25	<25	<25	<25	<25
GP300	S304	12-16	12/20/99	Yes	<25	<25	<25	<25	<25
HA	HA3	9	12/20/99	Yes	<25	<25	<25	28	<25

Note:

VOCs = Volatile Organic Compounds

ug/kg = micrograms per kilogram

— = WDNR Preventive Action Limit Exceeded

— = WDNR Enforcement Standard Exceeded

<x = not detected above laboratory limit of x

"J" = Analyte detected between laboratory Limit of Detection (LOD) and Limit of Quantitation (LOQ)

GP = Geoprobe Boring

HA = Hand Auger

WDNR = Wisconsin Department of Natural Resources

Table 3, Ground-Water Analytical Results, Eagle Cleaners, Eagle River, Wisconsin

Well ID	Date Sampled	QC Hold Time Met	Relevant and Significant Analytical Results (µg/l) VOCs					
			Chloroform	1,2-Dibromoethane	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene
WAC Preventive Action Limit (PAL) (µg/l)			0.6	0.005	7	0.5	200	0.5
WAC Enforcement Standard (ES) (µg/l)			6	0.05	70	5	1000	5
GP100	12/20/99	Yes	<0.4	<0.35	<0.32	130	<0.35	<0.48
GP200	12/20/99	Yes	<0.4	<0.35	1.7	110	<0.35	2.1
GP300	12/20/99	Yes	<0.4	<0.35	<0.32	120	<0.35	0.54"J"
SP400	12/20/99	Yes	0.62"J"	<0.35	<0.32	87	<0.35	0.55"J"
GP400	08/29/00	Yes	<0.50	1.2	<0.40	34	<0.10	<0.30
GP500	08/29/00	Yes	<0.50	<0.30	<0.40	6	<0.10	<0.30

Note:

VOCs = Volatile Organic Compounds

ug/l = micrograms per liter

0.54"J" = WAC Preventive Action Limit Exceeded

130 = WAC Enforcement Standard Exceeded

<x = not detected above laboratory limit of x

"J" = Analyte detected between laboratory Limit of Detection (LOD) and Limit of Quantitation (LOQ)

GP = Geoprobe water sample

SP = Sand point water sample

WAC = Wisconsin Administrative Code

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		GP-1

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MATRIX mike (chemist) Kelly	9/12/02	9/12/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane outside front door of site S/C/N
1/4 of 1/4 of Section , T N, R

Lat ___°___'___" Long ___°___'___"

Local Grid Location (If applicable) ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
EAGLE CLEANERS	VILAS	64	CITY OF EAGLE RIVER

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0–1	sidewalk										
			1–2	N/R										
			2½–5	2½' interlayered fine red/brn sand & silt w/ 6" dk brn silty clay layer. Heavy min. in sand				7		S damp				
			5–6.5	N/R										
			6.5–10	6" red/brn fine sand 3' m.g yellow brn sand w/heavy minerals ~5%				3.6		damp				
			10–12	N/R				1.9						

Invisible Boring 2 4J

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jeffrey S. Lynott

Firm ECCI - RHINELANDER Tel: 715-365-5200
22 N. PELHAM ST., P.O. BOX 614, RHINELANDER, WI 54501 Fax:715-365-5201

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		GP-1

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MATRIX Mike & Kelly	9/12/02	9/12/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane 1/4 of 1/4 of Section ; T N, R S/C/N
Lat ° ' "
Long ° ' "
Local Grid Location (If applicable) ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
EAGLE CLEANERS	VILAS	64	CITY OF EAGLE RIVER

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			11	mg lt. brn sand w/heavy minerals ~5%										
			12											
			13							Dry				
			14	DK BRN silt / red brn m.g. sand										
			15	6" lt. brn sand as above										
			16	6" organic silt						Damp wet				
			17	1' coarse sand / 1' silty sand										
			18	2' med. brn sand				1.4		Damp				
			19											
		22	20	20' to 22' no recovery										abandoned 9/12/02 b. slurry 4 Gal.
			21	multi-colored f-c arkosic sand @ pebbles fining downward to well sorted vf-f arenitic sand (brown)				0		wet				
		25	22											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Jeffrey S. Lynch

Firm: ECCI - RHINELANDER
22 N. PELHAM ST., P.O. BOX 614, RHINELANDER, WI 54501
Tel: 715-365-5200 Fax:715-365-5201

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		(GMW-1) GP-2

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MATRIX - Mike Kelly	9/12/02	9/12/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		GW-1	Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane ~20' N of GP1 S/C/N
1/4 of 1/4 of Section , T N, R

Lat ___° ___' ___"
Long ___° ___' ___"

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
EAGLE CLEANERS	VILAS	64	CITY OF EAGLE RIVER

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	0-2½' N/R		Flush mount								
			2	1' sand	Clay			5.3						
			3	1½' red brn m.g. sand						Dry				
			4											
			5	6" N/R										
			6	6" dk brn silty sand										
			7	2' red brn m.g. sand				5.3		Dry				
			8	2' lt. brn m.g. sand	Sand									
2			9	Pebbles @ ~12.5'										
			10	1½' m.g. sand w/ organic lyrs (2mm)		Screen								
			11	6" dk red brn silty sand w/ ~2" blk silt.				5.7		Dry				
			15	3' lt. brn m.g. sand		well set @ 19'				Wet	14'			

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Jeffrey S. Lynott

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22 N. PELHAM ST., P.O. BOX 614, RHINELANDER, WI 54501
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Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		GP-3

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MATRIX Mike Kelly	9/12/02	9/12/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane In Grass, near road, SE of driveway of cleaners S/C/N
1/4 of 1/4 of Section , T N, R

Lat ___° ___' ___"
Long ___° ___' ___"

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
EAGLE CLEANERS	VILAS	64	CITY OF EAGLE RIVER

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	3'		1	0-2' N/R 6" organic soil										
			2	1' dk brn silt w/ minor organics				14.3		Dry				
			3	1½' rd/brn silty sand w/ minor ¼" pebbles										
			4											
			5	6" rd/brn silt										
			6	1" organic soil										
	5'		7	1' f.m.g. sand mod. graded 1' c.g sand mod. graded				7.4		Damp				
			8	1½' m.g. mod. graded sand lt. brn										
			9											
			10											
			11	6" f.g. sand & silt grading into 1½' m.g. lt brn m.g. sand						Dry				Abandoned 9/12/02 bslurry 4 gal
	5'		12					9.1		Moist				
			13	¼" gry clay layer										
			14	1' m.g. lt brn m.g. sand						Sat.				
			15											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Jeffrey S. Lynott

Firm: ECCI - RHINELANDER
22 N. PELHAM ST., P.O. BOX 614, RHINELANDER, WI 54501
Tel: 715-365-5200
Fax: 715-365-5201

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Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		GP-4

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MATRIX Mike & Kelly	9/12/02	9/12/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		GW-2	Feet MSL	Feet MSL	2 Inches

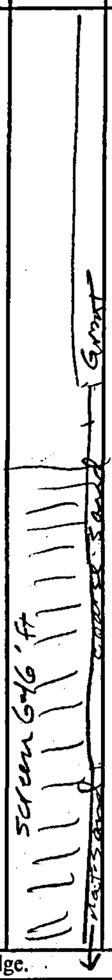
Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane Behind the bank, E of elec lines N of drive thru. S/C/N
1/4 of 1/4 of Section , T N, R

Lat ___° ___' ___"
Long ___° ___' ___"

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
EAGLE CLEANERS	VILAS	64	CITY OF EAGLE RIVER

Sample: Number and Type	Sample: Length Att & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
	3 1/2'		0–5	1' organic soil 1 1/2' f-g red/brn sand 1' m-g sand					1.6	Damp				
	3'		5–10	2 1/2' f-m-g lt. brn sand w/heavies bottom 6" red brn m-g sand					4.1	Damp / moist				
	3'		10–12	1' lt. brn med sand 2' brn med to coarse sand					4.6	wet				



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Jeffrey S. Lynott

Firm ECCI - RHINELANDER Tel: 715-365-5200
22 N. PELHAM ST., P.O. BOX 614, RHINELANDER, WI 54501 Fax:715-365-5201

Bottom of well 16' 6' natural sand

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		GP-5

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MATRIX Mike & Kelly	9/12/02	9/12/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		GW-3	Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)	Lat/Long	Local Grid Location (If applicable)
In grass by SE corner of Pub Park lot State Plane S/C/N 1/4 of 1/4 of Section , T N, R	Lat ___° ___' ___" Long ___° ___' ___"	☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
EAGLE CLEANERS	VILAS	64	CITY OF EAGLE RIVER

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
well set @ 17' sand to 1' bentonite to top			0–1	1' organic soil		flush mount								
	3'		1–3	2' mg. red brn sand	clay			4.2		DRY				
			6–7	mg lt. brn sand w/ heavies & isolated 1" silty sand horizons	← sand			5.9						
	4'		7–10		screen					DAMP				
			10–15	as above w/ isolated silty clay seams ~1/4" EOB 15'	well set @ 17'			3.9		sat. - 14'				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature]

Firm ECCI - RHINELANDER Tel: 715-365-5200
22 N. PELHAM ST., P.O. BOX 614, RHINELANDER, WI 54501 Fax: 715-365-5201

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		(GMW-4) GP-6

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MATRIX Mike & Kelly	9/12/02	9/12/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		GW-4	Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
In alley E. of E-lines across from motel garage, in rotten granite gravel S/C/N
State Plane 1/4 of 1/4 of Section , T N, R

Lat ____° ____' ____"
Long ____° ____' ____"

Local Grid Location (If applicable) ☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
EAGLE CLEANERS	VILAS	64	CITY OF EAGLE RIVER

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			2	No Recovery										
			4	Grey/brown silty sand rusty vf-f sand some silt				3.1		sm				
			6	f-m tan qtz sand no silt						d				
			8	Stuff down hole tan f-m qtz sand	clay			2.8		sm				
			10	Grey-tan-white vf-f qtz sand @ silt	sand					d				
			12	Rust/brown vf-m qtz sand little silt	screen			2.8		sm w				
			14											
			16	EOB										
			18	cave in sand										
			20											
			22											
			24											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Timothy R. Baker

Firm: ECCI - RHINELANDER
22 N. PELHAM ST., P.O. BOX 614, RHINELANDER, WI 54501
Tel: 715-365-5200 Fax:715-365-5201

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		GP-7

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MATRIX Mike & Kelly	9/12/02	9/12/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane 1/4 of 1/4 of Section , T N, R S/C/N
In alley N. of sidewalk N. of Cutler St by motel, W of site

Lat ___° ___' ___"
Long ___° ___' ___"

Local Grid Location (If applicable) ☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
EAGLE CLEANERS	VILAS	64	CITY OF EAGLE RIVER

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	4'		1	6" Asphalt & gravel										
			2	3½' fine sand & silt red brn				9.7						
			3											
			4											
			5											
			6	1' as above										
	4'		7	1½' m. to c. g. sand lt. brn w/ yellow & red brn patches and layers				5.7						
			8	6" dk brn silty clay										
			9	6" lt. brn m. g. sand										
			10											
			11	interlayered lt. brn m. g sand and silt horizons silt horizons up to 4", but sand is dominant				5.4						
	4'		12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 2 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		GP-7

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MATRIX Mike & Kelly	9/12/02	9/12/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)	Lat ___° ___' ___"	Local Grid Location (If applicable)
State Plane 1/4 of 1/4 of Section , T N, R S/C/N	Long ___° ___' ___"	☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
EAGLE CLEANERS	VILAS	64	CITY OF EAGLE RIVER

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	5'		1 2 3 4 5 6 7 8 9 10 11 12	interlayered sand & silt has shore (1') 4' m.g. lt brn sand w/heavies EOB 20'				2.1		damp wet sat				abandoned 9/12/02 4 gal bentonite slurry

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Jeffrey S. Lynch

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		(GMW-5) GP-8

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MATRIX of alley ~40 N of strip mall/office? ← In alley SW of cleaners, in asphalt W side	9/12/02	9/12/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
DOPS		GW-5	Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane Mike & Kelly S/C/N
1/4 of 1/4 of Section , T N, R

Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
EAGLE CLEANERS	VILAS	64	CITY OF EAGLE RIVER

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			2	No Recovery Gravel Fill		FM								
			4	Brn-Orange vf-F well sorted ferruginous qtz Sand Little Silt	clay			1.7		M				
			6	No recovery -Silt stringer @ Pebbles Brorange fv-f ferruginous qtz sand coarsing downward to Tan f-m qtz sand	sand			2.4		M VM				
			10	brown vf-F silty Sand ---- Pebbles-n-silt - - - Grey/brown f-m qtz Sand		▽		1.5		W water				
			14	Coarse Sand										
			16											
			18											
			20		well	Set @ 19'								
			22											
			24											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		GP-9

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MATRIX Mike & Kelly	9/12/02	9/12/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
SW quad of Wall & 2nd, in asphalt
State Plane ~15' S of sidewalk S/C/N
1/4 of 1/4 of Section , T N, R

Lat ___° ___' ___"
Long ___° ___' ___"

Local Grid Location (If applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
EAGLE CLEANERS	VILAS	64	CITY OF EAGLE RIVER

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			0–2	No Recovery										
			2	Asphalt				3.1		smoist				
				silty grey gravel										
			4	orange brown vf-f ferrigenous qtz sand										
				Brn vf-f qtz sand										
			6	silty pebble stringer										
				orange f-m qtz sand				2.7		moist				
			8	silty sand stringer										
				Tan grey f-m qtz sand coarsening downward to f-c Arkosic sand										
			10	Brn-orange vf-m qtz sand										
			12	silt/pebble string	▽									
				Tan brown vf-f qtz sand				3.5		wet				
				orange brn. f-c sand										
			14											
			16	EOB 15										
				sucked water from 19'										
			18											
			20											abandoned 9/12/02 Bt slurry 4 gal

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Timothy R Baker

Firm ECCI - RHINELANDER Tel: 715-365-5200
22 N. PELHAM ST., P.O. BOX 614, RHINELANDER, WI 54501 Fax:715-365-5201

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		(GMW-6) GP-10 GMW-6

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MATRIX Mike & Kelly	9/13/02	9/13/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		GMW-6	Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane N of wall W of 1st in alley (N'S) S/C/N
1/4 of ~7' W of Sidewalk 1/4 of Section , T N, R

Lat ___° ___' ___"
Long ___° ___' ___"

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
EAGLE CLEANERS	VILAS	64	CITY OF EAGLE RIVER

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	3½'		1	6" asphalt to gravel										
			2	1' f.g sand dk brn coal frags at 6"					DRY					
			3	1½' f.g. red brn sand										
			4	6" lt. brn sand w/ heavies										
			5											
			6	f-m.g lt. brn sand w/ minor heavies					Damp					
			7											
			8						Wet					
			9						▼					
			10						sat.					
			11	same as above										
			15	EOB 15'										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Steven S. Lynott

Firm: ECCI - RHINELANDER Tel: 715-365-5200
22 N. PELHAM ST., P.O. BOX 614, RHINELANDER, WI 54501 Fax:715-365-5201

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State of Wisconsin
Department of Natural Resources

Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		GP 11

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
MATRIX mike Kelly	9/13/02	9/13/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane 1/4 of 1/4 of Section , T N, R S/C/N
Lat ___° ___' ___"
Long ___° ___' ___"
Local Grid Location (If applicable) ☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
EAGLE CLEANERS	VILAS	64	CITY OF EAGLE RIVER

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1–12	Blind drill down former Northern Hole to 24' and sucked water										boring abandoned 9/13/02 Gal b. Sorry

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Kim Bek

Firm: ECCI - RHINELANDER
22 N. PELHAM ST., P.O. BOX 614, RHINELANDER, WI 54501
Tel: 715-365-5200
Fax:715-365-5201

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State of Wisconsin
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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		MW-2

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
M&K ENV. & SOILS DRILLING (MIKE MC ARDLE)	12/3/02	12/3/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
OZ 082			Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
NW 1/4 of NE 1/4 of Section 33, T 40 N, R 10 E

Lat ____° ____' ____"
Long ____° ____' ____"

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	VILAS	64	CITY OF EAGLE RIVER

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			2	Blind drilled to 19'.										
			4											
			6											
			8											
			10											
			12											
			14											
			16											
			18											
			20											
			22											

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature

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P.O. BOX 614, RHINELANDER, WI 54501
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Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		**MW-3**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
M&K ENV. & SOILS DRILLING (MIKE MC ARDLE)	**12/3/02**	**12/3/02**	**GEOPROBE**

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
OZ 084			Feet MSL	Feet MSL	**2** Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
NW 1/4 of **NE** 1/4 of Section **33**, T **40** N, R **10** E

Lat ____° ____' ____"
Long ____° ____' ____"

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	VILAS	**64**	**CITY OF EAGLE RIVER**

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			2	Blind drilled to 19'.										
			4											
			6											
			8											
			10											
			12											
			14											
			16											
			18											
			20											
			22											

hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm ECCI - RHINELANDER, 22 N. PELHAM ST.
P.O. BOX 614, RHINELANDER, WI 54501

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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		PZ-1

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
M&K ENV. & SOILS DRILLING (MIKE MC ARDLE)	12/3/02	12/3/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
OZ 081			Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
NW 1/4 of NE 1/4 of Section 33, T 40 N, R 10 E

Lat ____° ____' ____"
Long ____° ____' ____"

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	VILAS	64	CITY OF EAGLE RIVER

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	18"	4 3 3 5	2	2-4' Orange/brown, ferruginous, very fine to fine, silty sand.				5.8		Damp				No Odor
	18"	3 4 8 11	4	4-6' Same as above, coarsing down to very fine to med. sand w/ sm. pebbles, stringer at ~ 5'.				5.1		Moist				
	18"	6 5 5 5	6	6-8' Orange/brown, ferruginous, very fine to med., silty sand to brown silt w/ little sand.				4.5		Moist				
	10"	4 4 4 4	8	8-10' Tan/brown, interlayered, ~2" layers, very fine, silty sand w/ silt, little sand.				1.3		Wet				
	18"	8 9 10 12	10	10-12' Tan, fine to med. sand.				2.3		Moist				
	14"	6 7 11 12	12	12-14' Brown, very fine to coarse, silty sand w/ pebbles.			▼	1.4		Very Moist/ Wet				
	18"	8 10 11 12	14	14-16' Brown, very fine to med., little silty sand.				5.1		Wet				
	18"	4 6 8 9	16	16-18' Brown, very fine to med. sand, little silt.				6.1		Wet				
	20"	3 5 5 6	18	18-20' Brown, very fine to coarse sand, little silt.				0.6		Wet				
	18"	3 3 4 4	20	20-22' Same as above.				0.8		Wet				
			22											

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature: Jeffrey S. Lynott

Firm ECCI - RHINELANDER, 22 N. PELHAM ST.
P.O. BOX 614, RHINELANDER, WI 54501
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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-97

Boring Number **PZ-1** Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	20"	2 1 2 3	22	22-24' Brown, very fine to med. sand, little silt.				3.4		Wet				No Odor
	20"	–	24	24-26' Same as above.				3.8		Wet				
	22"	5 6 7 9	26	26-28' Same as above.				3.6		Wet				
	18"	7 7 9 10	28	28-30' Brown, very fine to coarse sand, little silt.				3.9		Wet				
	14"	7 9 11 17	30	30-32' Brown, very fine to med. sand, little silt.				3.7		Wet				
	10"	10 11 13 16	32	32-34' Same as above.				3.8		Wet				
	20"	8 10 12 13	34	34-36' Brown, very fine to coarse sand, little silt.				1.2		Wet				
	14"	9 9 10 11	36	36-38' Same as above.				1.0		Wet				
	18"	10 10 12 15	38	38-40' Same as above.				3.6		Wet				
			40	E.O.B. 40'										
			42											
			44											
			46											
			48											
			50											
			52											
			54											
			56											
			58											
			60											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-97

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
EAGLE CLEANERS		PZ-2

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
M&K ENV. & SOILS DRILLING (MIKE MC ARDLE)	12/4/02	12/4/02	GEOPROBE

WI Unique Well No.	DNR Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
OZ 083			Feet MSL	Feet MSL	2 Inches

Boring Location or Local Grid Origin (Check if estimated: ☐)
State Plane S/C/N
NW 1/4 of NE 1/4 of Section 33, T 40 N, R 10 E

Lat ____ ° ____ ' ____ "
Long ____ ° ____ ' ____ "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	VILAS	64	CITY OF EAGLE RIVER

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	16"	3 6 6 10	2 4 6	4-6' Orange/brown, very fine to fine sand w/ silt.				0.1		Moist				No Odor
	18"	4 4 3 3	8	6-8' Top 6" as above, then silty sand grading down to mostly silt.				0		Very Moist				
	14"	4 10 11 14	10 12	8-10' Top 3" silt, then very fine to fine sandy silt grading down to fine to coarse sand/1 pebble below silt.				0		to Moist				
	22"	4 5 5 5	14 16 18	15-17' Very fine to coarse sand, little silt.			▼	0		Wet				
	10"	6 5 4 6	20 22	20-22' Very fine to med. sand, little silt.				0		Wet				

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature: Jeffrey S. Lynch

Firm ECCI - RHINELANDER, 22 N. PELHAM ST.
P.O. BOX 614, RHINELANDER, WI 54501
Tel: 715-365-5200
Fax: 715-365-5201

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-97

Boring Number **PZ-2** Use only as an attachment to Form 4400-122.

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	14"	6 10 8 5	22 24 26 28 30	25-27' Very fine to med. sand, little silt.				0		Wet				No Odor
	14"	4 5 6 8	32 34	30-32' Very fine to coarse sand, little silt.				0		Wet				
	12"	5 8 11 14	36 38	35-37' Same as above.				0		Wet				
	10"	5 6 10 14	40 42	40-42' Very fine to med. sand, little silt.				0.2		Wet				
		8 8 8 9	44 46	45-47' No recovery.										
		6 7 9 8	48 50	48-50' No recovery.										
			52 54 56 58 60	E.O.B. 50'										

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Vilas

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: 320 Wall St

City, Village: Eagle River

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: Earle Clemmons

Street or Route: 320 Wall Street

City, State, Zip Code: Eagle River

Facility Well No. and/or Name (If Applicable): GP-1

WI Unique Well No.: _____

Reason For Abandonment: Temporary Borehole

Date of Abandonment: 9/19/02

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 9/19/02

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 25 Casing Diameter (ins.) NA
(From groundsurface)

Casing Depth (ft.) NA

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? NA Feet

(4) Depth to Water (Feet) 20

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: Temporary Boring

Was Casing Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Slurry	Surface	25	4 Gal	5 lbs / 35 Gal

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work: Matrix Environmental, LLC

Signature of Person Doing Work: Kelly O'Hara — Date Signed: 9/20/02

Street or Route: 8631 Jefferson Hwy — Telephone Number: (763) 424-4803

City, State, Zip Code: Osseo, MN 55369

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected: _____ District/County: _____

Reviewer/Inspector: _____

Follow-up Necessary: _____

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W
11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: VILAS

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: 320 WALL ST

City, Village: EAGLE RIVER

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: EAGLE CLEMONS

Street or Route: 320 WALL STREET

City, State, Zip Code: EAGLE RIVER

Facility Well No. and/or Name (If Applicable): GP-3

WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: TEMPORARY BOREHOLE

Date of Abandonment: 9/19/02

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date): 9/19/02

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify): DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.): 19 (From groundsurface)

Casing Diameter (ins.): NA

Casing Depth (ft.): NA

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? NA Feet

(4) Depth to Water (Feet): 17

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: TEMPORARY BOREHOLE

Was Casing Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
BENTONITE SLURRY	Surface	19	36 GAL	5 LBS / 35 GAL

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work: MATRIX ENVIRONMENTAL, LLC

Signature of Person Doing Work: Kelly O'Hara
Date Signed: 9/20/02

Street or Route: 8631 JEFFERSON HWY
Telephone Number: (763) 424-4803

City, State, Zip Code: OSSEO, MN 55369

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Vilas

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: 320 Wall St

City, Village: Eagle River

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: Eagle Clemons

Street or Route: 320 Wall Street

City, State, Zip Code: Eagle River

Facility Well No. and/or Name (If Applicable): GP-7

WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: Temporary Borehole

Date of Abandonment: 9/19/02

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 9/19/02

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 20 Casing Diameter (ins.) NA
(From groundsurface)

Casing Depth (ft.) NA

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? NA Feet

(4) Depth to Water (Feet) 17

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: Temporary Boring

Was Casing Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Slurry	Surface	20	36 gal	5 lbs / 35 gal

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work: Matrix Environmental, LLC

Signature of Person Doing Work: Kelly O'Hara
Date Signed: 9/20/02
Street or Route: 8631 Jefferson Hwy
Telephone Number: (763) 424-4803
City, State, Zip Code: Osseo, MN 55369

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W
11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: VILAS

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N. R. ___ ☐ E ☐ W
(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location
___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: 320 WAU ST

City, Village: EAGLE RIVER

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: EAGLE CLEMONS

Street or Route: 320 WAU STREET

City, State, Zip Code: EAGLE RIVER

Facility Well No. and/or Name (If Applicable): GP-9

WI Unique Well No.: _ _ _ _ _ _ _

Reason For Abandonment: TEMPORARY BOREHOLE

Date of Abandonment: 9/19/02

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date): 9/19/02

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify): DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.): 19 (From groundsurface)

Casing Diameter (ins.): NA

Casing Depth (ft.): NA

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? NA Feet

(4) Depth to Water (Feet): 17

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: TEMPORARY BORING

Was Casing Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
BENTONITE SLURRY	Surface	19	36 GAL	5 LBS / 35 GAL

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work: MATRIX ENVIRONMENTAL, LLC

Signature of Person Doing Work: Kelly O'Hara
Date Signed: 9/20/02

Street or Route: 8631 JEFFERSON HWY
Telephone Number: (763) 424-4803

City, State, Zip Code: OSSEO, MN 55369

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W
11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: VILAS

___ 1/4 of ___ 1/4 of Sec. ___ ; T. ___ N R. ___ ☐ E ☐ W

(If applicable) ___ Gov't Lot ___ Grid Number

Grid Location ___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: 320 WAU ST

City, Village: EAGLE RIVER

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: EAGLE CLEMONS

Street or Route: 320 WAU STREET

City, State, Zip Code: EAGLE RIVER

Facility Well No. and/or Name (If Applicable): GP-10

WI Unique Well No.: _____

Reason For Abandonment: TEMPORARY BOREHOLE

Date of Abandonment: 9/20/02

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 9/20/02

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) DIRECT PUSH

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 19 Casing Diameter (ins.) NA
(From groundsurface)

Casing Depth (ft.) NA

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? NA Feet

(4) Depth to Water (Feet) 17

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: TEMPORARY BOREHOLE

Was Casing Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
BENTONITE SLURRY	Surface	19	36ML	5 LBS / 35ML

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work: MATRIX ENVIRONMENTAL, LLC

Signature of Person Doing Work: Kelly O'Hara
Date Signed: 9/20/02

Street or Route: 8631 JEFFERSON HWY
Telephone Number: (763) 424-4803

City, State, Zip Code: OSSEO, MN 55369

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5W
11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Vilas

__ 1/4 of __ 1/4 of Sec. ___ ; T. ___ N R. ___ ☐ E ☐ W
(If applicable)

_____ Gov't Lot _____ Grid Number

Grid Location
_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Civil Town Name

Street Address of Well: 320 West St

City, Village: Eagle River

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: Eagle Clemons

Street or Route: 320 West Street

City, State, Zip Code: Eagle River

Facility Well No. and/or Name (If Applicable): GP-11

WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: Temporary Borehole

Date of Abandonment: 9/20/02

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On
(Date) 9/20/02

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☐ Yes ☒ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 24 Casing Diameter (ins.) NA
(From groundsurface)

Casing Depth (ft.) NA

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? NA Feet

(4) Depth to Water (Feet) 19

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

If No, Explain: Temporary Boring

Was Casing Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Pellets
☒ Granular Bentonite
☐ Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Bentonite Slurry	Surface	24	36 ml	5 lbs / 35 ml

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work
Matrix Environmental, LLC

Signature of Person Doing Work: Kelly O'Hara
Date Signed: 9/20/02

Street or Route: 8631 Jefferson Hwy
Telephone Number: (763) 424-4803

City, State, Zip Code: Osseo, MN 55369

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

DNR/COUNTY

APPENDIX I

Monitoring Well Construction and Development Forms

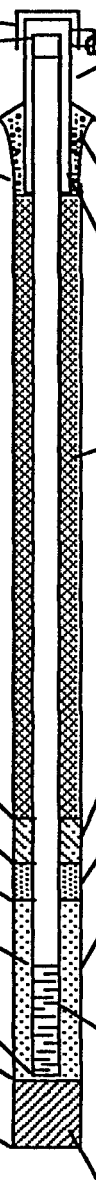
State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 6-97

Facility/Project Name: Dry Cleaners	Local Grid Location of Well ☐ ft ☐ N. ☐ S. ☐ ft ☐ E. ☐ W.	Well Name: MW 2
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ′ ″ Long. ° ′ ″	Wis. Unique Well No.: O Z 0 8 2 / DNR Well ID No.: ___
Facility ID: ___	St. Plane ft. N ft. E. S/C/N	Date Well Installed: 12/03/2002 (mm d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: NW 1/4 of NE 1/4 of Sec. 33, T. 40 N, R. 10 ■ E ☐ W	Well Installed By: (Person's Name and Firm): Timothy Ebert, M&K Environmental & Soils Drilling, LLC
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ■ Not Known	



A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or 00.0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ■ 41
_____ Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ■ 99

16. Drilling additives used? ☐ Yes ■ No
Describe _____

17. Source of water (attach analysis):
City of Sheboygan

E. Bentonite seal, top ____ ft. MSL or 10 ft.
F. Fine sand, top ____ ft. MSL or 50 ft.
G. Filter pack, top ____ ft. MSL or 70 ft.
H. Screen joint, top ____ ft. MSL or 90 ft.
I. Well bottom ____ ft. MSL or 190 ft.
J. Filter pack, bottom ____ ft. MSL or 195 ft.
K. Borehole, bottom ____ ft. MSL or 195 ft.
L. Borehole, diameter 8.00 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.00 in.

1. Cap and lock? ■ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 10.0 in.
b. Length: 1.0 ft.
c. Material: Steel ■ 04 / Other ☐ ___
d. Additional protection? ☐ Yes ■ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ■ 01 / Other ☐ ___
4. Material between well casing and protective pipe: Bentonite ☐ 30
None Other ☐ ___
5. Annular space seal: a. Granular Bentonite ☐ 33
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. _____ % Bentonite ..... Bentonite-cement grout ☐ 50
e. 1.4 Ft³ volume added for any of the above
f. How installed: Tremmie ☐ 04 / Tremmie pumped ☐ 02 / Gravity ■ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ■ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Bentonite chips Other ☐ ___
7. Fine sand material: Manufacturer, product name & mesh size
a. Silica sand
b. Volume added: .45 Ft³
8. Filter pack material: Manufacturer, product name & meshsize
a. #30 Red Flint Sand
b. Volume added: 1.7 Ft³
9. Well casing: Flush threaded PVC schedule 40 ■ 23
Flush threaded PVC schedule 80 ☐ 24
Johnson Screen Other ☐ ___
10. Screen material: Schedule 40 pvc
a. Screen type: Factory cut ■ 11 / Continuous slot ☐ 01
_____ Other ☐ ___
b. Manufacturer Johnson Screen
c. Slot size: 0.01 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ■ 14
_____ Other ☐ ___

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael P. McCorder Firm: M&K Environmental & Soils Drilling, LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281 283, 289, 291, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 291, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 6-97

Facility/Project Name: Dry Cleaners	Local Grid Location of Well ☐ N. ☐ E. ____ ft ☐ S. ____ ft ☐ W.	Well Name: MW 3
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' "	Wis. Unique Well No.: O Z 0 8 4 / DNR Well ID No.: ____
Facility ID: ____	St. Plane ____ ft. N ____ ft. E. S/C/N	Date Well Installed: 12/03/2002 (mm d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: NW 1/4 of NE 1/4 of Sec. 33, T. 40 N, R. 10 ■ E ☐ W	Well Installed By: (Person's Name and Firm): Timothy Ebert, M&K Environmental & Soils Drilling, LLC
Distance Well Is From Waste/Source Boundary ____ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ■ Not Known	

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or 0 0 . 0 ft

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ■ 41
____ Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ■ 99

16. Drilling additives used? ☐ Yes ■ No

Describe ____

17. Source of water (attach analysis):
City of Sheboygan

E. Bentonite seal, top ____ ft. MSL or 1 0 . 0 ft.
F. Fine sand, top ____ ft. MSL or 5 0 . 0 ft.
G. Filter pack, top ____ ft. MSL or 7 0 . 0 ft.
H. Screen joint, top ____ ft. MSL or 9 0 . 0 ft.
I. Well bottom ____ ft. MSL or 1 9 0 . 0 ft.
J. Filter pack, bottom ____ ft. MSL or 1 9 5 . 0 ft.
K. Borehole, bottom ____ ft. MSL or 1 9 5 . 0 ft.

L. Borehole, diameter 8 . 00 in.
M. O.D. well casing 2 . 38 in.
N. I.D. well casing 2 . 00 in.

1. Cap and lock? ■ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 1 0 . 0 in.
b. Length: 1 0 . 0 ft.
c. Material: Steel ■ 04
____ Other ☐
d. Additional protection? ☐ Yes ■ No
If yes, describe: ____
3. Surface seal: Bentonite ☐ 30
Concrete ■ 01
____ Other ☐
4. Material between well casing and protective pipe:
Bentonite ☐ 30
None Other ☐
5. Annular space seal: a. Granular Bentonite ☐ 33
b. ____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. ____ % Bentonite ..... Bentonite-cement grout ☐ 50
e. 1.4 Ft³ volume added for any of the above
f. How installed: Tremmie ☐ 04
Tremmie pumped ☐ 02
Gravity ■ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ■ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Bentonite chips Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. Silica sand
b. Volume added: .45 Ft³
8. Filter pack material: Manufacturer, product name & meshsize
a. #30 Red Flint Sand
b. Volume added: 2.9 Ft³
9. Well casing: Flush threaded PVC schedule 40 ■ 23
Flush threaded PVC schedule 80 ☐ 24
Johnson Screen Other ☐
10. Screen material: Schedule 40 pvc
a. Screen type: Factory cut ■ 11
Continuous slot ☐ 01
____ Other ☐
b. Manufacturer Johnson Screen
c. Slot size: 0.01 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ■ 14
____ Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael P. McArdle | Firm: M&K Environmental & Soils Drilling, LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281 283, 289, 291, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 291, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 6-97

Facility/Project Name: Dry Cleaners	Local Grid Location of Well ☐ N. ____ ft ☐ S. ____ ft ☐ E. ☐ W.	Well Name: PZ1
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ′ ″ Long. ° ′ ″	Wis. Unique Well No.: OZ081 / DNR Well ID No.: ____
Facility ID: ____	St. Plane ____ ft. N ____ ft. E. S/C/N	Date Well Installed: 12/03/2002 (mm/dd/yyyy)
Type of Well: Well Code 12 / PZ	Section Location of Waste/Source: NW 1/4 of NE 1/4 of Sec. 33, T. 40 N, R. 10 ■ E ☐ W	Well Installed By: (Person's Name and Firm): Mike Mc Ardle, M&K Environmental & Soils Drilling, LLC
Distance Well Is From Waste/Source Boundary ____ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ■ Not Known	

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or 000 ft

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ■ 41
____ Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ■ 99

16. Drilling additives used? ☐ Yes ■ No
Describe ____

17. Source of water (attach analysis):
City of Sheboygan

E. Bentonite seal, top ____ ft. MSL or 10 ft.
F. Fine sand, top ____ ft. MSL or 300 ft.
G. Filter pack, top ____ ft. MSL or 320 ft.
H. Screen joint, top ____ ft. MSL or 340 ft.
I. Well bottom ____ ft. MSL or 390 ft.
J. Filter pack, bottom ____ ft. MSL or 405 ft.
K. Borehole, bottom ____ ft. MSL or 405 ft.
L. Borehole, diameter 8.00 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.00 in.

1. Cap and lock? ■ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 10.0 in.
b. Length: 1.0 ft.
c. Material: ____ Steel ■ 04 Other ☐
d. Additional protection? ☐ Yes ■ No
If yes, describe: ____
3. Surface seal: ____ Bentonite ☐ 30 Concrete ■ 01 Other ☐
4. Material between well casing and protective pipe:
None ____ Bentonite ☐ 30 Other ☐
5. Annular space seal: a. Granular Bentonite ☐ 33
b. ____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. ____ % Bentonite ..... Bentonite-cement grout ☐ 50
e. 4.5 Ft³ volume added for any of the above
f. How installed: Tremmie ☐ 04 Tremmie pumped ☐ 02 Gravity ■ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ■ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Bentonite chips Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. Silica sand
b. Volume added: .45 Ft³
8. Filter pack material: Manufacturer, product name & meshsize
a. #30 Red Flint Sand
b. Volume added: .5 Ft³
9. Well casing: Flush threaded PVC schedule 40 ■ 23
Flush threaded PVC schedule 80 ☐ 24
Johnson Screen Other ☐
10. Screen material: Schedule 40 pvc
a. Screen type: Factory cut ■ 11 Continuous slot ☐ 01
____ Other ☐
b. Manufacturer Johnson Screen
c. Slot size: 0.01 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ■ 14
____ Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael P. Mc Ardle Firm: M&K Environmental & Soils Drilling, LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281 283, 289, 291, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 291, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

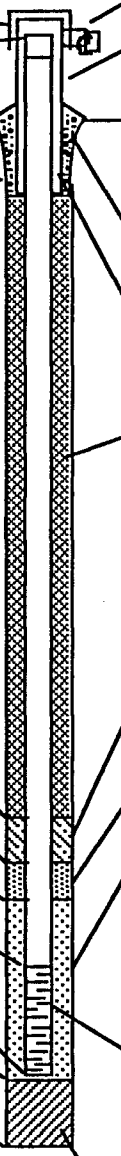
State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 6-97

Facility/Project Name: Dry Cleaners	Local Grid Location of Well ☐ N. ☐ E. ft ☐ S. ft ☐ W.	Well Name: PZ2
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: ☐) Lat. ° ' " Long. ° ' "	Wis. Unique Well No.: OZ083 / DNR Well ID No.:
Facility ID	St. Plane ft. N. ft. E. S/C/N	Date Well Installed: 12/04/2002 (m m d d y y y y)
Type of Well: Well Code 12 / PZ	Section Location of Waste/Source: NW 1/4 of NE 1/4 of Sec. 33, T. 40 N, R. 10 ■ E ☐ W	Well Installed By: (Person's Name and Firm): Mike Mc Ardle
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ■ Not Known	M&K Environmental & Soils Drilling, LLC



A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or 000 ft

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ■ 41
_____ Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ■ 99

16. Drilling additives used? ☐ Yes ■ No
Describe _____

17. Source of water (attach analysis):
City of Sheboygan

E. Bentonite seal, top ____ ft. MSL or 10 ft.
F. Fine sand, top ____ ft. MSL or 410 ft.
G. Filter pack, top ____ ft. MSL or 430 ft.
H. Screen joint, top ____ ft. MSL or 450 ft.
I. Well bottom ____ ft. MSL or 500 ft.
J. Filter pack, bottom ____ ft. MSL or 505 ft.
K. Borehole, bottom ____ ft. MSL or 505 ft.
L. Borehole, diameter 8.00 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.00 in.

1. Cap and lock? ■ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 10.0 in.
b. Length: 1.0 ft.
c. Material: Steel ■ 04 / Other ☐
d. Additional protection? ☐ Yes ■ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ■ 01 / _____ Other ☐
4. Material between well casing and protective pipe:
Bentonite ☐ 30
None
Other ☐
5. Annular space seal: a. Granular Bentonite ☐ 33
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. _____ % Bentonite ..... Bentonite-cement grout ☐ 50
e. 4.8 Ft³ volume added for any of the above
f. How installed: Tremmie ☐ 04 / Tremmie pumped ☐ 02 / Gravity ■ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ■ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Bentonite chips Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. Silica sand
b. Volume added: .45 Ft³
8. Filter pack material: Manufacturer, product name & meshsize
a. #30 Red Flint Sand
b. Volume added: .5 Ft³
9. Well casing: Flush threaded PVC schedule 40 ■ 23
Flush threaded PVC schedule 80 ☐ 24
Johnson Screen Other ☐
10. Screen material: Schedule 40 pvc
a. Screen type: Factory cut ■ 11 / Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer Johnson Screen
c. Slot size: 0.01 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ■ 14
_____ Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Michael P. McArdle | Firm: M&K Environmental & Soils Drilling, LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281 283, 289, 291, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 291, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☒ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
EAGLE CLEANERS	Vilas	GMW-1
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
_____	__	_____ / __

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☒	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 30 min.

4. Depth of well (from top of well casisng) 18. ft.

5. Inside diameter of well 1/2 in.

6. Volume of water in filter pack and well casing 0.3 gal.

7. Volume of water removed from well 3.0 gal.

8. Volume of water added (if any) 0. gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 12.14 ft.	11.5 ft.
Date	b. 12/11/02 m m d d y y	12/11/02 m m d d y y
Time	c. 11:05 ☒ a.m. ☐ p.m.	11:30 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	21.0 inches	21.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☐ 20 Turbid ☒ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: Tim Baker

Firm: ECCI

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Tim Baker

Print Initials: T R B

Firm: ECCI

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☑ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
EAGLE CLEANERS	Vilas	GMW-2
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
_____	__	_____ / _____

1. Can this well be purged dry? ☐ Yes ☑ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☒ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 30 min.

4. Depth of well (from top of well casisng) 18. ft.

5. Inside diameter of well 1/2. in.

6. Volume of water in filter pack and well casing 0.38 gal.

7. Volume of water removed from well 4.0 gal.

8. Volume of water added (if any) 0. gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 9.79 ft.	9.4 ft.
Date	b. 12/11/02 m m d d y y	12/11/02 m m d d y y
Time	c. 11:00 ☑ a.m. ☐ p.m.	11:30 ☑ a.m. ☐ p.m.
12. Sediment in well bottom	1.0 inches	1.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☑ 15 (Describe) _____	Clear ☐ 20 Turbid ☑ 25 (Describe) much less turbid

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	_____. mg/l	_____. mg/l
15. COD	_____. mg/l	_____. mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: Tim Baker

Firm: ECCI

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Tim Baker

Print Initials: T R B

Firm: ECCI

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B
Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☒ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
EAGLE CLEANERS	Vilas	GMW-3
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
_____	__	___-_____ / _____

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☒	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well ___30 min.

4. Depth of well (from top of well casisng) __18.__ ft.

5. Inside diameter of well ___.5__ in.

6. Volume of water in filter pack and well casing __0.37 gal.

7. Volume of water removed from well ___4.__ gal.

8. Volume of water added (if any) ___0.__ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. __9.96 ft.	__9.5__ ft.
Date	b. 12/11/02 (m m d d y y)	12/11/02 (m m d d y y)
Time	c. 10:30 ☒ a.m. ☐ p.m.	11:00 ☐ a.m. ☐ p.m.
12. Sediment in well bottom	21.0 inches	21.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☐ 20 Turbid ☒ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	_____.__ mg/l	_____.__ mg/l
15. COD	_____.__ mg/l	_____.__ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: Tim Baker

Firm: ECCT

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Tim Baker

Print Initials: TRB

Firm: ECCT

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☑ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
EAGLE CLEANERS	Vilas	GMW-4
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
_____	__	_____	_____

	Before Development	After Development
1. Can this well be purged dry?	☐ Yes ☒ No	
11. Depth to Water (from top of well casing)	a. 12.92 ft.	12.5 ft.
Date	b. 12/11/02 (m m d d y y)	12/11/02 (m m d d y y)
Time	c. 10:00 ☒ a.m. ☐ p.m.	10:30 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	21.0 inches	21.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☑ 15 (Describe)	Clear ☐ 20 Turbid ☑ 25 (Describe) much less Turbid

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☒ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well — 30 min.

4. Depth of well (from top of well casisng) — 18.__ ft.

5. Inside diameter of well — 1/2.__ in.

6. Volume of water in filter pack and well casing — 0.23 gal.

7. Volume of water removed from well — 2.5 gal.

8. Volume of water added (if any) — 0.__ gal.

9. Source of water added — _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	_____.__ mg/l	_____.__ mg/l
15. COD	_____.__ mg/l	_____.__ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: Tim Baker

Firm: ECCI

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Tim Baker

Print Initials: T R B

Firm: ECCI

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B
Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☒ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
EAGLE CLEANERS	Vilas	GMW-5
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
_____	__	_____ / _____

1. Can this well be purged dry? ☐ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☒ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 30 min.

4. Depth of well (from top of well casisng) 18. ft.

5. Inside diameter of well 1/2. in.

6. Volume of water in filter pack and well casing 0.29 gal.

7. Volume of water removed from well 3.0 gal.

8. Volume of water added (if any) 0. gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 11.56 ft.	11.0 ft.
Date	b. 12/11/02 m m d d y y	12/11/02 m m d d y y
Time	c. 9:30 ☒ a.m. ☐ p.m.	10:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	1.0 inches	1.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☐ 20 Turbid ☒ 25 (Describe) less Turbid

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: Tim Baker

Firm: ECCI

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Tim Baker

Print Initials: T R B

Firm: ECCI

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☑ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
EAGLE CLEANERS	Vilas	GMW-6
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
_____	___	_____ / _____

1. Can this well be purged dry? ☐ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☒ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well ___30.0 min.

4. Depth of well (from top of well casisng) __15.2 ft.

5. Inside diameter of well __1/2.__ in.

6. Volume of water in filter pack and well casing __0.08 gal.

7. Volume of water removed from well ___1.0 gal.

8. Volume of water added (if any) ___0.__ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. __13.28 ft.	__12.7 ft.
Date	b. 12/11/02 (m m d d y y)	12/11/02 (m m d d y y)
Time	c. 12:30 ☑ a.m. ☐ p.m.	1:00 ☐ a.m. ☑ p.m.
12. Sediment in well bottom	21.0 inches	21.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☐ 20 Turbid ☒ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	_____.__ mg/l	_____.__ mg/l
15. COD	_____.__ mg/l	_____.__ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: Tim Baker

Firm: ECCI

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Tim Baker

Print Initials: T R B

Firm: ECCI

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☒ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
EAGLE CLEANERS	Vilas	MW-2
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
_____	__	_____ / ___

		Before Development	After Development
1. Can this well be purged dry?	☐ Yes ☒ No		
2. Well development method			
surged with bailer and bailed	☒ 41		
surged with bailer and pumped	☐ 61		
surged with block and bailed	☐ 42		
surged with block and pumped	☐ 62		
surged with block, bailed and pumped	☐ 70		
compressed air	☐ 20		
bailed only	☐ 10		
pumped only	☐ 51		
pumped slowly	☐ 50		
Other _____	☐		
11. Depth to Water (from top of well casing)	a.	13.10 ft.	12.99 ft.
Date	b.	12/11/02 (m m d d y y)	12/11/02 (m m d d y y)
Time	c.	9:00 ☒ a.m. ☐ p.m.	9:30 ☒ a.m. ☐ p.m.
12. Sediment in well bottom		< 1.0 inches	< 1.0 inches
13. Water clarity		Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)
3. Time spent developing well		30 min.	
4. Depth of well (from top of well casisng)		19.__ ft.	
5. Inside diameter of well		2.__ in.	
6. Volume of water in filter pack and well casing		4.3 gal.	
7. Volume of water removed from well		10.__ gal.	
8. Volume of water added (if any)		—.__ gal.	
9. Source of water added		—	
10. Analysis performed on water added? (If yes, attach results)	☐ Yes ☐ No		

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: Tim Baker

Firm: ECCT

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Timothy R Baker

Print Initials: TRB

Firm: ECCT

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☒ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
EAGLE CLEANERS	Vilas	MW-3
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
_____	__	_____ / _____

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☒ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 30 min.

4. Depth of well (from top of well casisng) 19. ft.

5. Inside diameter of well 2. in.

6. Volume of water in filter pack and well casing .5 gal.

7. Volume of water removed from well 20. gal.

8. Volume of water added (if any) ~ gal.

9. Source of water added ~

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 12.21 ft.	12.1 ft.
Date	b. 12/11/02 (m m d d y y)	12/11/02 (m m d d y y)
Time	c. 9:30 ☒ a.m. ☐ p.m.	10:00 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	1.0 inches	1.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____. mg/l	_____. mg/l
15. COD	_____. mg/l	_____. mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: Tim Baker

Firm: ECCT

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Timothy R Baker

Print Initials: TRB

Firm: ECCT

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☑ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
EAGLE CLEANERS	Vilas	PZ-1

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
_____	__	_____	_____

1. Can this well be purged dry? ☐ Yes ☑ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☑ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 30 min.

4. Depth of well (from top of well casisng) 40.__ ft.

5. Inside diameter of well 2.__ in.

6. Volume of water in filter pack and well casing 19.7 gal.

7. Volume of water removed from well 60.__ gal.

8. Volume of water added (if any) 0.__ gal.

9. Source of water added —

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 12.99 ft.	12.77 ft.
Date	b. 12/11/02 (m m d d y y)	12/11/02 (m m d d y y)
Time	c. 10:30 ☑ a.m. ☐ p.m.	11:00 ☑ a.m. ☐ p.m.
12. Sediment in well bottom	≤1.0 inches	≤1.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☑ 15 (Describe)	Clear ☑ 20 Turbid ☐ 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____.__ mg/l	_____.__ mg/l
15. COD	_____.__ mg/l	_____.__ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: Tim Baker

Firm: ECCI

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Tim Baker

Print Initials: TRB

Firm: ECCI

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☑ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
EAGLE CLEANERS	Vilas	PZ-2
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
_____	__	_____ / ____

	Before Development	After Development
1. Can this well be purged dry?	☐ Yes ☑ No	
2. Well development method		
surged with bailer and bailed ☐ 41		
surged with bailer and pumped ☐ 61		
surged with block and bailed ☐ 42		
surged with block and pumped ☐ 62		
surged with block, bailed and pumped ☐ 70		
compressed air ☐ 20		
bailed only ☐ 10		
pumped only ☑ 51		
pumped slowly ☐ 50		
Other _____ ☐		
11. Depth to Water (from top of well casing)	a. 13.30 ft.	13.00 ft.
Date	b. 12/11/02 (m m d d y y)	12/11/02 (m m d d y y)
Time	c. 10:00 ☑ a.m. ☐ p.m.	10:30 ☑ a.m. ☐ p.m.
12. Sediment in well bottom	≤ 1.0 inches	≤ 1.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☑ 15 (Describe)	Clear ☑ 20 Turbid ☐ 25 (Describe)
3. Time spent developing well	30 min.	
4. Depth of well (from top of well casisng)	49.6 ft.	
5. Inside diameter of well	2.__ in.	
6. Volume of water in filter pack and well casing	26.5 gal.	
7. Volume of water removed from well	60.__ gal.	
8. Volume of water added (if any)	0.__ gal.	
9. Source of water added	—	
10. Analysis performed on water added? (If yes, attach results)	☐ Yes ☐ No	

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	_____.__ mg/l	_____.__ mg/l
15. COD	_____.__ mg/l	_____.__ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: Tim Baker

Firm: ECCI

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Tim Baker

Print Initials: T R B

Firm: ECCI

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APPENDIX J

EPA Soil-Screening Level RCL Documentation

Soil Screening Guidance for Chemicals

Equation Values for Ingestion

Noncarcinogenic Parameter	Value	Carcinogenic Age-adjusted Parameter	Value	Carcinogenic Nonadjusted Parameter	Value
Target Hazard Quotient (unitless)	1	Target Risk (unitless)	1.0E-7	Target Risk (unitless)	1.0E-6
Body Weight (kg)	70	Adult Body Weight (kg)	70	Body Weight (kg)	70
		Child Body Weight (kg)	15		
Exposure Duration (yr)	25	Adult Exposure Duration (yr)	24	Exposure Duration (yr)	25
		Child Exposure Duration (yr)	6		
Exposure Frequency (day/yr)	250	Exposure Frequency (day/yr)	350	Exposure Frequency (day/yr)	250
Intake Rate (mg/day)	100	Adult Intake Rate (mg/day)	100	Intake Rate (mg/day)	100
		Child Intake Rate (mg/day)	200		
		Average Lifetime (yr)	70	Average Lifetime (yr)	70
		Age-adjusted Ingestion Factor (mg-yr/kg-day)	114.29		

Soil Screening Levels for Ingestion (mg/kg)

Analyte	Cas Number	Oral RfD	Oral Slope Factor	Noncarcinogenic	Carcinogenic (Age-adjusted)	Carcinogenic (Nonadjusted)
Tetrachloroethylene	127184	1.00E-02 [a]	5.20E-02 [v]	1.02E+04	1.23E+00	5.50E+01

Equation Values for Inhalation of Fugitive Dust

Particulate Emission Factor Parameter	Value	Noncarcinogenic Parameter	Value	Carcinogenic Parameter	Value
Surface Area (acres)	0.5	Target Hazard Quotient (unitless)	1	Target Risk (unitless)	1.0E-6
City (climate zone)	Minneapolis (V)	Exposure Duration (yr)	25	Exposure Duration (yr)	25
Q/C (g/m^2-s per kg/m^3)	90.8	Exposure Frequency (day/yr)	250	Exposure Frequency (day/yr)	250
Fraction of vegetative cover (unitless)	0.5			Average Lifetime (yr)	70
Mean annual windspeed (m/s)	5.				
Equivalent threshold value of windspeed at 7m (m/s)	11.				
Function dependent on U_m/U_t (unitless)	0.2707				

Soil Screening Levels for Inhalation of Fugitive Dust (mg/kg)

Analyte	Cas Number	Inhalation RfC	Inhalation Unit Risk	Particulate Emission Factor	Noncarcinogenic	Carcinogenic
Tetrachloroethylene	127184	6.00E-01 V	5.8E-07 V	7.14E+08	6.26E+08	5.03E+06

Equation Values for Inhalation of Volatiles

Volatilization Factor Parameter	Value	Soil Saturation Concentration Parameter	Value	Noncarcinogenic Parameter	Value	Carcinogenic Parameter	Value
Surface Area (acres)	0.5			Target Hazard Quotient (unitless)	1	Target Risk (unitless)	1.0E-6

City (climate zone)	Minneapolis (V)			Exposure Duration (yr)	25	Exposure Duration (yr)	25
Q/C (g/m^2-s per kg/m^3)	90.8			Exposure Frequency (day/yr)	250	Exposure Frequency (day/yr)	250
Fraction organic carbon (unitless)	0.006	Fraction organic carbon (unitless)	0.006			Average Lifetime (yr)	70
Dry soil bulk density (g/cm^3)	1.5	Dry soil bulk density (g/cm^3)	1.5				
Soil particle density (g/cm^3)	2.65	Soil particle density (g/cm^3)	2.65				
Water-filled soil porosity (L_{water}/L_{soil})	0.2	Water-filled soil porosity (L_{water}/L_{soil})	0.2				
Exposure interval (s)	9.5e08						

Soil Screening Levels for Inhalation of Volatiles (mg/kg)

Analyte	Cas Number	Inhalation RfC	Inhalation Unit Risk	Volatilization Factor	Soil Saturation Concentration	Noncarcinogenic	Carcinogenic
Tetrachloroethylene	127184	6.0E-01 v	5.8E-07 v	4.6E+03	2.4E+02	4.0E+03	3.3E+01

Equation Values for Soil to Ground Water

Partitioning Equation Parameter	Value
Dilution factor (unitless)	2
Fraction organic carbon in soil (unitless)	0.001
Water-filled soil porosity (L_{water}/L_{soil})	0.2
Dry soil bulk density (kg/L)	1.5
Soil particle density (kg/L)	2.65

Soil Screening Levels for Soil to Ground Water (mg/kg)

Analyte	Cas Number	Ground Water Concentration* (mg/L)	Ground Water Concentration Source	Soil Screening Level
Tetrachloroethylene	127184	1.0E-02	MCL	4.1E-03

*Ground Water Concentration=Ground Water Concentration Source × Dilution Factor

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