

**PHASE II
ENVIRONMENTAL
SITE ASSESSMENT**

**ROBINSON'S DRY CLEANERS
1819 E. MILWAUKEE STREET
JANESVILLE, WISCONSIN**

Prepared for:

ROBIN, INC.

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TABLE OF CONTENTS

Executive Summary.....	ES-1
Section 1	Introduction..... 1-1
1.1	Site Description 1-1
1.2	Background..... 1-1
1.3	Purpose and Scope..... 1-2
Section 2	Site Investigation.....2-1
2.1	Site Investigation Activities..... 2-1
2.2	Soil Borings 2-1
2.2.1	Geoprobe Samples 2-1
2.2.2	Drilling..... 2-2
2.3	Monitoring Well Installation 2-2
2.4	Groundwater Sample Collection..... 2-3
Section 3	Site Investigation Results3-1
3.1	Site Geology and Hydrogeology 3-1
3.2	Hydraulic Conductivity Test and Groundwater Flow 3-1
3.2.1	Hydraulic Conductivity Testing 3-1
3.2.2	Groundwater Flow 3-1
3.3	Soil Sampling Results..... 3-2
3.4	Groundwater Monitoring Results 3-2
3.5	Discussion..... 3-3
Section 4	Remedial Action Considerations.....4-1
4.1	Evaluation of Need for Remediation 4-1
4.2	Remedial Action Objectives 4-1
4.3	Evaluation Criteria..... 4-1
4.4	Potential General Response Actions..... 4-2
4.5	Cleanup Goals..... 4-3
Section 5	Detailed Evaluation of Remedial Options5-1
5.1	Soil..... 5-1
5.1.1	Engineered Controls 5-1
5.1.2	In-Situ Chemical Injection..... 5-2
5.1.3	Soil Vapor Extraction 5-3
5.2	Groundwater 5-4
5.2.1	No Further Action..... 5-4
5.2.2	Groundwater Extraction With Air Stripping 5-5
5.2.3	Ozone Sparging 5-6
Section 6	Conclusions and Recommendations.....6-1

TABLE OF CONTENTS

6.1	Conclusions.....	6-1
6.2	Recommendations.....	6-1

TABLES

Table 1-A	Head Space Analyses – Geoprobe Samples
Table 1-B	Head Space Analyses – Soil Borings
Table 2	Slug Test Results
Table 3	Groundwater Elevations
Table 4	Soil Laboratory Analyses
Table 5	Groundwater Analyses
Table 6-A	Estimated Costs – Soil Injection
Table 6-B	Estimated Costs – Soil Vapor Extraction
Table 7-A	Estimated Costs – Natural Attenuation Monitoring
Table 7-B	Estimated Costs – Groundwater Extraction with Air Stripping
Table 7-C	Estimated Costs – Ozone Sparging

FIGURES

Figure 1	Site Location Map
Figure 2	Site Map
Figure 3	Soil Sample Locations
Figure 4	Well Locations and Groundwater Levels

APPENDICES

Appendix A	Boring Logs and Well Construction Forms
Appendix B	In-Situ Hydraulic Conductivity Test Plots
Appendix C	Soil Laboratory Reports
Appendix D	Groundwater Laboratory Reports

A phase II investigation for a leaking underground storage tank at the Stop-N-Go facility located at 1804 East Milwaukee Street, Janesville, Wisconsin, found chlorinated volatile organic compounds in the groundwater, primarily tetrachloroethene (PCE). These compounds are not associated with the petroleum products, which were released at the study site. However, PCE is a commonly used dry cleaning solvent. Robinson's Cleaners, located at 1819 East Milwaukee Street, is located northeast of the Stop-N-Go, in the assumed upgradient direction from it. Consequently, the Wisconsin Department of Natural Resources issued a responsible party letter to Robin, Inc., owner of Robinson's Cleaners.

Subsequently, URS initiated a subsurface investigation at Robinson's Cleaners. The investigation, conducted from July through September 2002, included a Geoprobe soil sampling program, followed by deeper soil sampling and construction of groundwater observation wells.

This study identified an area of impacted soil, which is likely a source for groundwater impacts. The contaminants were found in the rear of the property, centered adjacent to a service door, where solvents were handled.

Groundwater flow at the site was found to be in a south-southwesterly direction, toward the 1804 East Milwaukee Street location. Low concentrations of chlorinated compounds were detected in groundwater at the site. The highest concentrations found was 15 µg/L of PCE in a sample collected from well MW-2, which is located near the western property line. Although this is in excess of the State's Enforcement Standard (5 µg/L), it was the only ES exceedance detected at the site.

Various remedial options were reviewed with respect to Wisconsin Administrative Code ch. NR 722 considerations. Soil remedial options included engineered barriers (capping), chemical injection and soil vapor extraction. Groundwater options included natural attenuation, groundwater extraction and treatment, and ozone sparging.

Based upon the site conditions and evaluation of the options, URS recommends the installation of a soil vapor extraction system to remove contaminants from the soil, thereby removing the source for groundwater impacts. For groundwater, we recommend two years of quarterly groundwater monitoring, with the intent to move toward closure by means of natural attenuation. We believe that natural attenuation is appropriate for the site for several reasons.

First, although the concentrations of contaminants exceed the State's Enforcement Standard at one location, they are still relatively low. Additionally, chance of exposure to impacted groundwater is virtually non-existent. The depth to groundwater is nearly 90 feet, eliminating exposure due to excavation, or volatilization from the water table. There are also no receptors within the plume boundaries, and because the site is located within the City of Janesville, the area is serviced by municipal water supply; consequently, statutory prohibition on well construction will prevent any water supply wells from being constructed within the limits of the plume.

1.1 SITE DESCRIPTION

Robinson's Cleaners is an active dry cleaning facility located at 1819 E. Milwaukee Street in Janesville, Wisconsin. As shown on Figure 1, the facility is located in the northwest ¼ of the southeast ¼ of Section 30, Township 3 north, Range 13 East, in Rock County. The site is positioned on elevated ground, at an elevation of approximately 865 feet. The Rock River is located less than 1.5 miles to the west, and is at an elevation of less than 770 feet. Consequently, groundwater elevations at the site are between 80 and 90 feet below ground surface.

1.2 BACKGROUND

A soil and groundwater investigation was completed at the Stop-N-Go store, located at 1804 East Milwaukee Street, in Janesville, Wisconsin (see Figure 1). Although this investigation was for a petroleum site, a full analysis of volatile organic compounds (VOCs) was conducted on samples collected. The analyses of groundwater samples yielded low parts-per-billion concentrations of tetrachloroethene (PCE), which is not typically associated with petroleum sites, and was not detected in the soil at the site.

Although an accurate evaluation of groundwater flow direction could not be completed at the site (only two groundwater monitor wells are present), regional data, as well as data from a nearby site indicate that groundwater flow is likely to the southwest in this area. Based upon that assessment, Robinson Cleaners (Site), located at 1819 East Milwaukee Street, is positioned directly upgradient from the Stop-N-Go facility. Additionally, PCE is the fabric cleaning solvent that has been utilized at the Site. Consequently, the Wisconsin Department of Natural Resources (WDNR) determined that the Site is the likely source of the PCE detected in groundwater samples at the Stop-N-Go facility. Subsequently, Marilyn Jahnke of the WDNR issued a "Responsible party" letter to Mr. Brian Fitzgerald, owner of Robinson Cleaners, instructing that a site investigation be carried out to determine the degree and extent of environmental impacts be defined, and a remedial strategy be developed.

A Geoprobe investigation at the Robinson's Dry Cleaners facility was conducted between July 10 and 12, 2002. Soil samples were collected during that investigation to define the lateral extent of impacted soil. Samples were collected from 12 Geoprobe borings were advanced to 15 feet below ground surface. All Geoprobe borings locations were advanced in the parking lot behind the facility. With the soil sample results from the Geoprobe investigation, a source area

of impacts to groundwater was identified and used to prepare the work plan for the Phase II site investigation.

URS completed additional site work on the Robinson property between August 21 and 29, 2002. That work included drilling soil borings and the installation of monitoring wells and the collection of soil and groundwater samples. Soil and groundwater samples were analyzed for volatile organic compounds. These investigation results have been used to evaluate potential remedial responses.

1.3 PURPOSE AND SCOPE

The purpose of this report is to present the results of a site investigation recently completed at the Robinson property. This investigation was completed to identify the vertical extent of chlorinated VOC contamination in soil and groundwater. Results are presented in this report, and were used to evaluate potential remedial actions. This evaluation of remedial options is also presented in this report.

2.1 SITE INVESTIGATION ACTIVITIES

Site investigation activities included the collection of soil samples from 12 Geoprobe soil borings to define the lateral extent of soil contamination, the collection of soil samples from five soil borings utilizing a truck-mounted drilling rig to define the vertical extent of soil contamination, and installing four groundwater monitoring wells to evaluate groundwater flow conditions and groundwater quality. Groundwater samples were analyzed for VOCs, according to EPA Method 8260. Hydraulic conductivity tests were also performed in each well, and water levels were measured in site wells to evaluate site groundwater flow conditions.

The existing building houses state-of-the art dry cleaning equipment. It is unlikely that this equipment has caused the release of PCE. However, it is possible that releases occurred from older equipment was used in a building that formerly occupied the site. Figure 2 shows the site layout, including the location of the former building. Interviews of site personnel indicate that the area to the front of the current and former buildings was used for customer parking. Currently, PCE deliveries are made in small containers, delivered to the rear of the building. Based upon this, URS' soil investigation was concentrated in the rear portions of the property.

2.2 SOIL BORINGS

Prior to conducting drilling activities, Diggers Hotline and Vanguard Utility were contacted to located utilities near and on the Robinson property. Final boring locations were selected based on locations of utilities.

2.2.1 Geoprobe Samples

URS mobilized a Geoprobe rig to the site on July 12, 2002. On-Site Environmental Services, Inc. of DeForest, Wisconsin advanced 12 borings (R-1 through R-12) to a depth of 15 feet. Continuous soil samples were collected and screened on site using a photoionization detector (PID) equipped with an 11.7 eV lamp. Screening was completed at approximately 2-foot increments. Boring locations are shown on Figure 3; screening results are presented in Table 1-A. Based on the results of the screening, nine samples, from various depths and screening results, were selected for laboratory analyses. These samples were preserved and shipped in an iced cooler to Northern Lake Services, Inc., in Crandon, Wisconsin for VOC analyses. Logs of the borings and borehole abandonment forms are provided in Appendix A.

2.2.2 Drilling

Additional soil borings were advanced to identify the vertical extent of soil contamination. Badger State Drilling, Inc., of Stoughton, Wisconsin performed the drilling. Five borings (B-1 through B-5), were advanced using hollow stem augers (HSA) through unconsolidated overburden to the completion depth. The boring locations, which are also shown on Figure 3, were selected based on the identified source area from the previous Geoprobe investigation. Boring B-1 was advanced to 85 feet below ground surface (bgs), where groundwater was encountered. Borings B-2, B-3, B-4, and B-5 were advanced to 40 ft bgs.

The borings were logged in the field by an experienced geotechnical engineer during drilling to record soil descriptions and Standard Penetration Test (SPT) N-values. Soil units were classified in accordance with the Unified Soil Classification System. The boring logs are presented in Appendix A.

Soil samples were collected every 5 feet using a 2-inch diameter split-spoon sampler. As with Geoprobe samples, the soil samples were field screened using a calibrated photoionization detector with an 11.7 eV lamp. Selected samples for laboratory analyses of VOCs were preserved and placed in an iced cooler. Additional soil samples were collected in laboratory provided plastic bottles for measuring moisture content for the dry weight adjustment in the final results. Samples were shipped to Northern Lake Services, Inc. for laboratory analyses. Screening results are summarized in Table 1-B.

Upon completion of field activities, the boreholes were backfilled with bentonite chips and asphalt patched at the ground surface. Borehole abandonment forms are also included in Appendix A.

2.3 MONITORING WELL INSTALLATION

Monitoring wells MW-1, MW-2, MW-2D, and MW-3 were installed between August 26 and 28, 2002. Although soil samples were not submitted for laboratory analyses, the borings were logged, and cuttings were screened utilizing the PID. No indication of contamination was evident in the readings.

Monitoring well MW-1 is located in the northeast corner of the property and is an upgradient well. Wells MW-2, MW-2D and MW-3 are located at downgradient locations, with respect to

the source area. The MW-2/2D well nest also permits the evaluation of vertical groundwater flow gradients at the site. Well locations are shown on Figure 4.

All wells were installed in boreholes advanced with 4 ¼-inch ID hollow stem augers. Borings for wells MW-1, MW-2, and MW-3 were advanced to a depth of 90-feet below ground surface. Groundwater was encountered at an approximate depth of 85 feet below ground surface while drilling. The water table observation wells were constructed with 2-inch diameter schedule 40 PVC well screens 10 feet in length, installed approximately 5 feet below the water table. Well MW-2D was constructed with a 2-inch diameter PVC well screen 5 feet in length, installed approximately 20 feet below the bottom of the adjacent water table observation well. A sand pack was placed around each well screen as the augers were removed. A bentonite seal was placed above the sand pack, and the annular space seal was backfilled with granular bentonite. Monitoring wells MW-1 and MW-3 were encased in flush-mount protective well casings cemented in place. A steel protective stand-up pipe was placed around MW-2 and MW-2D. Well construction details are included in Appendix A.

On August 29, 2002, the new wells were developed by low-flow pumping a minimum of ten well volumes. The elevations of the top of the PVC well casings for all new monitoring wells were also surveyed as reference elevations on September 12, 2002. All drilling, well construction and well development were completed in accordance with Wisconsin Administrative Code NR 141 requirements. Well development forms are also included in Appendix A. Soil cuttings and purge water were placed in 55-gallon drums and are being temporarily stored on site until arrangements for disposal can be made. Drilling services were provided by Badger State Drilling, Inc. of Stoughton, Wisconsin.

2.4 GROUNDWATER SAMPLE COLLECTION

Groundwater samples were collected from the site monitor wells on September 12, 2002. Static water levels were measured in each, and four well volumes were removed from each well prior to the collection of groundwater samples.

Dedicated bailers were used to collect groundwater samples. The color, odor, and turbidity of the purge water were recorded on field sampling forms along with a description of the general conditions, and any sampling problems that were encountered at each well. All samples were collected in laboratory containers, held on ice, and shipped along with the completed chain-of-custody forms to a Wisconsin certified laboratory for analysis. Samples were analyzed by Northern Lakes Service, Inc. for volatile organic compounds by USEPA Method 8260. Field

measurements for pH, specific conductance, temperature, oxidation-reduction potential, and dissolved oxygen were also recorded at the time of sample collection.

3.1 SITE GEOLOGY AND HYDROGEOLOGY

The geology in the Janesville area is composed of unconsolidated glacial deposits overlying Cambrian aged sandstone bedrock. The contact between the bedrock and the overlying glacial deposits represents an unconformity and an erosional surface. The glacial deposits consist of sand and gravel till and outwash. These unconsolidated deposits are approximately 300 feet thick in the Janesville area. The outwash sand and gravel in the Rock River valley are noted for yielding large amounts of water.

Soil borings drilled during the site investigation showed subsurface conditions consistent with the regional geology. In all the soil borings, six to nine feet of silty clay fill was encountered below the ground surface. Below the fill was fine to coarse grained sand with trace to little gravel to the termination depths of each boring.

3.2 HYDRAULIC CONDUCTIVITY TEST AND GROUNDWATER FLOW

3.2.1 Hydraulic Conductivity Testing

On September 12, 2002, two in-situ hydraulic conductivity tests were performed on each water table well. These tests were performed by inserting a transducer and bailer into the well, and allowing the water level to stabilize in the well. A bailer of water was then removed from the well, causing water levels in the well to fall. The recovery (the rising water levels in the well over time) was then recorded by a Hermit 3000 data logger connected to a Troll 4000 (both by In-Situ, Inc.) transducer probe. The hydraulic conductivity in the vicinity of the well screen was then calculated by the Bouwer and Rice Method using the Aquifer Win32 computer program. Estimated hydraulic conductivity data are summarized in Table 2. In-situ hydraulic conductivity test data plots have been included in Appendix B. As Table 2 indicates, the average estimated hydraulic conductivity at the site is 0.031 feet per second.

3.2.2 Groundwater Flow

Static groundwater levels were also measured on September 12, and are summarized in Table 3. As the table indicates, there is a slight downward flow gradient at the MW-2/2D nest, of 0.0005. Figure 4 shows groundwater flow directions at the site, based on the September 12, 2002 measured water levels. At that time, groundwater flow was in a generally north-northwest to south-southeast direction; however, as with vertical gradient, the figure shows little horizontal

gradient, which is typical of a permeable aquifer. Based upon the measured groundwater flow gradient and calculated hydraulic conductivity, a groundwater flow velocity of 0.3 feet per year is estimated (at an assumed porosity of 0.3).

3.3 SOIL SAMPLING RESULTS

Twelve samples from the Geoprobe sampling and five from the drilling were analyzed for VOCs. The results are summarized in Table 4 (note that the full EPA 8260 VOC scan was completed; only detected compounds are summarized in Table 4), and laboratory reports are included in Appendix C. Compounds detected include cis-1,2-dichloroethene, naphthalene, PCE, trichloroethene (TCE) and trichlorofluoromethane. Based on the results, the Geoprobe work appears to have accurately identified the source area of the contaminants. Boring R-3, located adjacent to the rear door that enters the cleaning area, yielded a PCE concentration of 30,000 $\mu\text{g}/\text{kg}$ at a depth of 2 feet, as well as daughter compounds TCE and cis-1,2-dichloroethene. Boring R-2, located approximately 25 feet west of R-3, yielded 5,000 $\mu\text{g}/\text{kg}$ of cis-1,2-dichloroethene at a depth of 8 feet. PCE was detected in that sample at a concentration of 750 $\mu\text{g}/\text{kg}$, and TCE and naphthalene were detected at concentrations below the level of quantitation. Lower concentrations of PCE and TCE were detected at a depth of 4 feet in sample R-6, advanced approximately 35 feet northwest of R-3.

Trichlorofluoromethane was detected in samples from borings B-3, B-4 and B-5, at depths up to 40 feet. This compound, also known as "Freon 11," is not typically associated with dry cleaning facilities. However, trichlorofluoromethane is occasionally present as a laboratory contaminant, which may be cause for its occurrence in the samples from this site.

Based on the results and the spatial distribution of contaminants, it appears that the contaminants present are associated with the current facility, rather than the previous one. Figure 5 shows the approximate extent of impacted soil.

3.4 GROUNDWATER MONITORING RESULTS

Groundwater monitoring results are summarized in Table 5, and laboratory reports are included in Appendix D. The groundwater samples yielded a single Wisconsin groundwater Enforcement Standard (ES) exceedance. A PCE concentration of 15 $\mu\text{g}/\text{L}$ occurred in the sample from MW-2, slightly above the ES of 5 $\mu\text{g}/\text{L}$. The Preventive Action Limit (PAL) for PCE of 0.5 $\mu\text{g}/\text{L}$ was exceeded in samples from the remaining three wells, with detections of

1.6 µg/L, 1.7 µg/L and 1.6 µg/L for wells MW-1, MW-2D and MW-3, respectively. No other groundwater quality standards were exceeded. The result at MW-2D is in agreement with the measured vertical gradient, which indicates very little downward groundwater migration occurs. The low detection of PCE at well MW-1 is likely due to dispersion, which can occur at shallow groundwater gradients, such as those measured at the site.

Field measurements were relatively unremarkable. Conditions were very similar in all four wells, with a slightly lower temperature in the deeper well (MW-2D). The oxidation/reduction potential show that the site is likely under oxidizing conditions; however, due to the depth of groundwater, an accurate dissolved oxygen measurement was not possible. Consequently, based on the data collected, we cannot assess whether the conditions are aerobic or anaerobic.

3.5 DISCUSSION

The site investigation resulted in the identification of an area of soil impacted with chlorinated VOCs, which could be a source for impacts to groundwater. The area is centered at the rear of the existing building, adjacent to an 8-foot service door. The laboratory data show that contaminants are present at depth; however, at concentrations significantly lower than at shallow depths.

A single ES exceedance was detected in the groundwater sample collected from well MW-2 (15 µg/L, PCE). No other groundwater quality standards were exceeded. A comparison of Figures 1 and 3 shows that the higher PCE concentration at well MW-2 is consistent with the observed flow conditions, relative to the identified source area and the wells at the Stop & Go store, where PCE was discovered. Additionally, the concentration is such that concentrations of 1 to 10 µg/L would be expected at a location 200 to 300 feet directly downgradient.

4.1 EVALUATION OF NEED FOR REMEDIATION

In accordance with Wisconsin Spill Statutes (Wis. Stats. 292.11), upon the release of a hazardous substance to the environment, the responsible party is required to restore the environment to the extent practicable, and to minimize the harmful effects of the discharge. Tetrachloroethene detected in shallow soil samples indicates that a release has occurred on site. Because PCE was detected in groundwater samples above the Wisconsin Admin. Code NR 140 ES of 5 µg/L, environmental restoration is required. The WDNR will allow in some cases natural recovery of contaminated groundwater above regulatory standards, providing that specific conditions are met to ensure the protection of human health and the environment. These can include source removal, groundwater monitoring for an extended period of time to demonstrate that the plume is stable or receding plume with no off-site migration, or combination thereof. At the Robinson property, none of these conditions have been met given that only one round of groundwater samples has been collected. As required by WAC NR 700, we have prepared this portion of this report to provide an evaluation of available options for site restoration.

4.2 REMEDIAL ACTION OBJECTIVES

Remedial action objectives state the specific goals of the various remedial actions that are described in this report. The general goal of these objectives is to protect human health and mitigate environmental risks posed by the contaminants at the site. Specific goals include the following:

- Minimize potential risk to human health and to aquatic and terrestrial animals and to the environment from exposure to contaminants;
- Limit future migration of contaminants to receptors;
- Limit, to the extent practicable, on site migration of contaminants; and
- Minimize short-term risk to human health and to aquatic and terrestrial animals and to the environment from exposure to contaminants during the implementation of the remedial action.

4.3 EVALUATION CRITERIA

Potential remedial options that are capable of reducing the mobility, toxicity, and volume of chromium in the subsurface were evaluated and are presented in this report. Our evaluation includes a description of the potential response, the technical feasibility, and economic feasibility

of each potential response. Considerations for evaluating the feasibility of each option are based on criteria outlined in Wisconsin Admin. Code chapter NR 722 as follows:

- Long-term effectiveness;
- Short-term effectiveness;
- Technical feasibility and implementability;
- Restoration time-frame; and
- Economic feasibility.

4.4 POTENTIAL GENERAL RESPONSE ACTIONS

Potential general response actions for the Robinson facility can be divided into the following five categories:

- No Action;
- Containment;
- Source Removal
- Source Control; and
- Resource Management.

No action implies that remedial actions are not implemented because site conditions do not present a risk to human health or the environment. However, the collection of additional groundwater samples may be required to ensure that human health and the environment will not be impacted.

Containment actions include the installation of engineering controls to contain contamination within a specified area. For the Robinson property, some containment action has already been implemented in that the source area is either paved, or covered by a building. This prevents precipitation from infiltrating through the source material, and providing a transport mechanism to carry it to the water table. Additionally, the pavement and building prevent direct contact with contaminated soil.

Source removal actions include the removal of waste, contaminated soil, and other impacted material.

Source control actions include the in place treatment of contaminated soil and groundwater. For the Robinson facility, this would include the in place treatment of subsurface contamination followed by natural attenuation. Installation of a groundwater extraction system in the source area would also be included as a source control remedial response.

Resource management would include the use of regulatory and administrative decisions to limit the public's exposure to potential contamination. For the Robinson facility, this could be used to limit exposure to contaminated soil and groundwater in combination with institutional controls (e.g. fencing and deed restrictions etc.) to eliminate potential direct contact. Conceptually, these controls could be used in conjunction with natural recovery to meet cleanup standards with an Agency approved monitoring program.

4.5 CLEANUP GOALS

Groundwater quality standards are covered in Wisconsin Admin. Code chapter NR 140. Site closure standards are defined in Wisconsin Admin. Code chapter NR 726. An evaluation has not been performed for soils or groundwater at this site for the purpose of calculating site specific cleanup standards. Therefore, the Enforcement Standards of 5 µg/L for PCE is the default groundwater cleanup target.

Remedial options for soil and groundwater are evaluated pursuant to Wisconsin Administrative Code ch. NR 722.07, which requires the following considerations:

- Short- and long-term effectiveness;
- Technical feasibility and implementability;
- Restoration time frame; and
- Economic feasibility.

Three options will be evaluated for both soil and groundwater. Each of the factors listed above will be considered. Estimates of costs for the alternatives are summarized in Tables 6 and 7. These costs are based on recent similar projects completed by URS.

5.1 SOIL

An area of impacted soil was discovered behind the existing building. The concentrations yielded by soil samples are high enough to be considered a source for impacts to groundwater; consequently, soil remediation is indicated.

Options considered for soil remediation include:

- Engineered controls (capping);
- In-situ chemical injection; and
- Soil vapor extraction (SVE).

5.1.1 Engineered Controls

Engineered controls are structures put in place to prevent the possibility of exposure to contaminants, and the migration of contaminants. For soil, engineered controls typically consist of the construction of a cap to eliminate areas of exposed soil, and to prevent infiltration of water, which can act as a transporting mechanism to carry the contaminants to the groundwater.

At the Robinson's site, the cap is already in place. The source area is covered with pavement and the existing building. This approach would essentially be a no-action alternative, making it

implementable, technically feasible and economically feasible; however, because groundwater impacts are present, it is clear that the effectiveness, both short- and long-term, would not be acceptable at this time.

5.1.2 In-Situ Chemical Injection

Description

Chemical injection entails the application of a chemical reagent developed to react with the contaminants present in the soil in the source area, and through the reaction, convert chlorinated hydrocarbons to non-hazardous compounds, such as carbon dioxide and water. With this process, small diameter holes are drilled through the pavement or floors in the impacted area, typically on a grid pattern with hole spacings of 4 to 8 feet. The reagent is then applied by means of hand advancement of an applicator. The reagent is ejected at high pressure through a nozzle at the point of the applicator, liquefying the soil, allowing the applicator to be advanced. However, the maximum achievable depths attainable by this method typically range between 10 to 15 feet.

An alternative approach is to advance a Geoprobe applicator, which typically allows application at a greater depth. A Geoprobe boring is advanced, and applicator is pumped through the probe as it advances. However, the maximum depth of a Geoprobe boring is 40 to 50 feet; consequently, it is possible that the Geoprobe could not be advanced to penetrate the entire column of impacted soil.

Short- and Long-Term Effectiveness

Because this option results in a nearly immediate reaction with contaminants, it is considered highly effective on a short-term basis. Additionally, because the contaminants are destroyed, its long-term effectiveness is also high. However, it is our experience that areas of heavily contaminated soil may require multiple applications of additional reagent; consequently, there may be limitations on the short-term effectiveness. Ultimately, the effectiveness would be evaluated by re-sampling of soil matrix, requiring a field mobilization after application. This would also be required after any additional applications.

Technical Feasibility and Implementability

The impacted area is readily accessible. However, the depth of impacts is beyond the reach of a Geoprobe. Consequently, at the maximum depth of Geoprobe advancement, sufficient reagent will be injected to migrate by gravity through the remainder of the soil column.

Restoration Time Frame

If the remediation can be completed in a single application, the restoration time frame is very short, on the order of days. In the event that additional injections are necessary, the spacing between injection activities is typically on the order of 1 to 3 months, thereby increasing the restoration time frame.

Economic Feasibility

Table 6-A summarizes the approximate costs for this option. The cost summary includes the application of the reagent, as well as oversight and documentation. Note that the costs include a single application, and may require additional applications.

5.1.3 Soil Vapor Extraction***Description***

For this option, soil vapor extraction (SVE) wells would be installed along the northern perimeter of the building. A vacuum is then applied to the wells, and air is used as a carrier to remove contaminants from the soil, which are then released to the atmosphere. Because the SVE wells would be installed utilizing a drilling rig, there would be no restrictions on the depths that could be attained, and the complete column of contaminated soil could be penetrated.

Short- and Long-Term Effectiveness

Contaminants will begin to be drawn from the soil immediately after startup, thereby being somewhat effective in the short term. Because the contaminants are removed from the soil, this option is also very effective in the long term.

This option relies on the migration of the contaminant vapors to the SVE wells. Because the migration is being enhanced by the application of a vacuum, it is considered effective, both short- and long-term.

Technical Feasibility and Implementability

The actual effectiveness of this option would be evaluated by means of the required sampling of the vapor effluent. When concentrations of the effluent are reduced to a low or non-detectable level, it would be assumed that the system had removed contaminants to the extent technically feasible. However, the site accessibility is adequate, and the soils are suitable for SVE; consequently, this option is considered to be technically feasible.

Restoration Time Frame

The restoration time frame varies, depending on the permeability of the soil in the vadose zone, and the strength of the applied vacuum. However, it has been URS' experience that SVE systems can remediate the soil to the extent practicable within a period of 2 to 3 years.

Economic Feasibility

Table 6-B summarizes the approximate costs of the construction, operation and monitoring of an SVE system. Costs include drilling, equipment purchase and installation, power costs for operation, oversight, monitoring and documentation.

5.2 GROUNDWATER

Elevated concentrations of VOCs have been detected in groundwater taken from on-site monitor wells, as well as at a downgradient off-site location (Stop n Go store). Remedial options evaluated for groundwater include:

- No further action;
- Groundwater extraction with air stripping; and
- Ozone sparging.

5.2.1 No Further Action***Description***

The no further action option is essentially a natural attenuation approach, which will require the quarterly monitoring of groundwater quality from the site monitor wells, along with the associated reporting to the client and WDNR. This option could be pursued if it can be shown that there is no expansion of the contaminant plume, and that concentrations will decline to acceptable levels over time.

Short- and Long-Term Effectiveness

Because no actions are taken to accelerate remediation, this is considered a long-term option. However, with appropriate monitoring to verify that the plume is not expanding, and with appropriate safeguards against exposure (e.g., existing well restrictions), the option can be effective.

Technical Feasibility and Implementability

Because contaminant concentrations near the downgradient property line exceed the State's ES, natural attenuation alone will not be an acceptable option; however, monitoring, in conjunction with soil remediation, is feasible. Because the activities associated with this option are groundwater sampling and analyses, it is easily implemented.

Restoration Time Frame

This is a long-term restoration; however, the monitoring period typically lasts 2 to 3 years.

Economic Feasibility

This approach is the most economically feasible, in that it requires only groundwater monitoring, which would be required regardless of the remedial action taken. The estimated costs for two years of quarterly groundwater monitoring are summarized in Table 7-A.

5.2.2 Groundwater Extraction with Air Stripping***Description***

This option will require the installation of groundwater extraction wells. For cost purposes, we have assumed the need for two wells. Extracted groundwater is pumped to an air stripping unit, which would be housed in a small building on the site. After treatment, the water would be discharged to the municipal storm sewer system. Because water is being discharged, a Wisconsin Pollutant Discharge Elimination System (WPDES) permit would be required, and depending upon the vapor effluent concentrations, an air permit may also be required. Additionally, regular sampling and analyses of the influent and effluent water would be required, along with quarterly groundwater sampling of the site monitor wells.

Short- and Long-Term Effectiveness

This option is effective in the short term in that it immediately establishes a cone of depression in the water table, preventing the plume from expanding. However, it is a long-term solution, in that the remedial process typically takes

For a site such as the Robinson's property, this option would be technically feasible. Because it would capture the contaminant plume, preventing further migration off-site, it would be acceptable to the WDNR, as well. Although the approach would be effective in both the

prevention of migration of contaminants off site as well as the removal of contaminants from the aquifer, it would be a long-term remedial option.

Technical Feasibility and Implementability

The implementation of a groundwater extraction system immediately creates a capture zone in the aquifer. It is therefore considered to be effective in the short-term by preventing the migration of contaminants.

Restoration Time Frame

Remediation of the aquifer requires multiple plume volumes be removed, meaning that groundwater from every point in the plume has to reach an extraction well several times. The remedial time frame therefore is typically long, likely ranging from 5 to 10 years.

Economic Feasibility

The estimated costs for the construction of a groundwater remediation system by means of extraction and air stripping are summarized in Table 7-B. The table also provides an estimate of the costs for the first year of operation and maintenance.

5.2.3 Ozone Sparging

Description

In an ozone sparge system, ozone is injected into the groundwater from a pole-mounted panel, which houses an air compressor and ozone generator. The ozone reacts with the contaminants in the groundwater to create environmentally harmless by-products. Because no water is being removed, no influent or effluent sampling is required, nor is a discharge permit.

The mobility of ozone in the aquifer is restricted by the permeability of the aquifer and the density of the groundwater. Although the ozone wells would incorporate groundwater circulation pumps to maximize the radius of influence, the effective radius would still be less than that of a groundwater extraction well. Consequently, more ozone injection wells would be required compared to the number of groundwater extraction wells.

Short- and Long-Term Effectiveness

As with the chemical injection option for soil remediation, the short-term effectiveness of this method is good, in that contaminants are destroyed on contact with the ozone. Because the contaminants are destroyed, the long-term effectiveness is also considered high.

Technical Feasibility and Implementability

As with the groundwater extraction option, the ozone must either penetrate all portions of the plume, or the impacted groundwater must migrate to ozone well locations. Consequently, the alternatives are to install many wells to reach most of the plume simultaneously (resulting in a short time frame, on the order of 1 to 2 years), or place the wells at downgradient locations, such that the plume passes through the ozone "curtain," (longer time frame, on the order of 3 to 5 years).

Economic Feasibility

Capital costs for ozone sparging are competitive with extraction and treatment; however, operation and maintenance costs are typically somewhat lower, due to the lower costs of operating the system and the elimination of influent and effluent sampling. Estimated costs for ozone sparging, including one year of monitoring, are provided in Table 7-C.

6.1 CONCLUSIONS

A soil and groundwater investigation at the Robinson's Cleaners site at 1819 East Milwaukee Street in Janesville, Wisconsin found impacts to soil and groundwater from dry cleaning solvents utilized by the facility for its cleaning process. Soil contamination was discovered immediately adjacent to the rear of the building, and impacts were found at depths greater than 50 feet.

Groundwater samples from site wells yielded elevated concentrations of PCE; however, only one ES exceedance occurred, with 15 µg/L of PCE detected in the sample collected from MW-2, which is adjacent to the downgradient property line.

The results of the investigation indicate that the release(s) at the site likely caused the impacts to groundwater found in site observation wells. Based on the observed groundwater flow direction, it is likely that the release(s) also caused the PCE impacts to groundwater at the 1804 East Milwaukee Street property, as well. However, the concentrations at that location are below the State's ES.

Based on the concentrations detected, URS concludes that the soil remains a source of continued impacts to groundwater. We also conclude that the observed groundwater concentrations are not a threat to human health or the environment, and that with the removal of the source, groundwater will naturally attenuate the contaminants.

6.2 RECOMMENDATIONS

Pursuant to the conclusions summarized in Section 6.1, and the remedial options evaluated in Section 5, URS recommends the following:

Soil Remediation:

Contaminants should be removed from the impacted area of the soil by means of an SVE system. Although the initial costs of SVE may exceed those of chemical injection, the possible need for re-injection(s), along with the problems of injection at depths below approximately 40 feet suggest that the final costs of injection may well exceed those of SVE. Additionally, based on our experience at soil remediation, we consider the soil conditions to be well-suited for SVE.

Groundwater Remediation:

URS recommends two years of natural attenuation monitoring concurrent with soil vapor extraction. Site investigation results indicate that groundwater has been impacted. However, an improvement in groundwater quality can be expected if SVE is implemented because the source of future groundwater impacts would be removed. There are currently no receptors for the groundwater exposure pathway. Implementation of natural attenuation as a final remedial response would be technically and economically feasible.

TABLE 1-A
SOIL HEAD SPACE ANALYSES
GEOPROBE SAMPLES
ROBINSON'S DRY CLEANERS
1819 EAST MILWAUKEE STREET
JANESVILLE, WISCONSIN

PROBE	DEPTH	READING	PROBE	DEPTH	READING	PROBE	DEPTH	READING		
ROBIN-01	2	1.0	ROBIN-05	2	1.9	ROBIN-09	2	0.0		
	4	1.8		4	1.6		4	0.6		
	6	2.0		6	1.6		6	0.0		
	8	1.8		8	1.8		8	0.8		
	10	1.3		10	2.1		10	0.1		
	12	2.7		12	1.9		12	0.2		
	14	3.6		15	1.8		15	0.6		
	15	3.2		2	2.4		2	0.1		
ROBIN-02	2	8.5	ROBIN-06	4	2.3	ROBIN-10	4	0.0		
	4	6.9		6	2.1		6	0.5		
	6	19.4		8	1.8		8	0.1		
	8	25.7		10	2.6		10	0.1		
	10	15.3		12	1.2		12	0.0		
	12	5.0		15	1.5		15	0.1		
	14	4.1		2	1.1		2	1.6		
	15	4.5		4	0.3		4	1.5		
ROBIN-03	2	15.9	ROBIN-07	6	0.9	ROBIN-11	6	1.4		
	4	6.3		8	1.5		8	1.8		
	6	3.4		10	1.6		10	1.9		
	8	5.6		12	1.5		12	1.9		
	10	3.2		15	1.0		15	2.1		
	12	3.3		2	1.3		2	0.9		
	15	2.8		4	1.1		4	1.4		
	ROBIN-04	2		2.5	ROBIN-08		6	1.1	ROBIN-12	6
4		2.5	8	1.3		8	1.8			
6		2.6	10	1.6		10	1.8			
8		2.4	12	1.9		12	1.6			
10		2.1	15	0.8		15	2.2			
12		0.6								
15		0.5								

Depths in feet below ground surface.

Readings in instrument units (parts per million of sample drawn into PID).

Sample forwarded for laboratory analyses.

TABLE 1-B
SOIL HEAD SPACE ANALYSES
SOIL BORINGS
ROBINSON'S DRY CLEANERS
1819 EAST MILWAUKEE STREET
JANESVILLE, WISCONSIN

BORING	DEPTH	READING	BORING	DEPTH	READING	BORING	DEPTH	READING
B-1	5	6.8	B-2	8	6.8	B-4	5	0.0
	10	6.8		10	5.8		10	1.2
	15	5.8		15	5.6		15	1.4
	20	7.0		20	5.6		20	2.2
	25	6.0		25	4.2		25	2.2
	30	5.6		30	6.4		30	2.8
	35	6.6	35	4.0	35	2.0		
	40	5.6	40	6.4	40	0.0		
	45	6.4	B-3	5	0.0	B-5	5	0.0
	50	6.2		10	0.8		10	0.6
	55	5.0		15	0.0		15	1.8
	60	5.8		20	0.6		20	1.8
65	5.2	25		0.6	25		1.2	
70	5.8	30		1.6	30		1.8	
75	6.0	35		1.6	35		1.8	
80	5.6	40		1.4	30		1.6	

Depths in feet below ground surface.

Readings in instrument units (parts per million of sample drawn into PID).

Sample forwarded for laboratory analyses.

TABLE 2
SLUG TEST RESULTS
ROBINSON'S DRY CLEANERS
1819 EAST MILWAUKEE STREET
JANESVILLE, WISCONSIN
All results in feet per second

WELL	TEST	RESULT
MW-1	SLUG IN	0.020
	SLUG OUT	0.019
MW-2	SLUG IN	0.036
	SLUG OUT	0.033
MW-3	SLUG IN	0.037
	SLUG OUT	0.039
AVERAGE:		0.031

TABLE 4
SOIL LABORATORY ANALYSES
ROBINSON'S DRY CLEANERS
1819 EAST MILWAUKEE STREET
JANESVILLE, WISCONSIN
Concentrations in µg/kg

PARAMETER ¹	SAMPLE LOCATION AND DEPTH (FEET)							
	ROBIN-02 8	ROBIN-03 2	ROBIN-04 15	ROBIN-06 4	ROBIN-08 12	ROBIN-09 15	ROBIN-10 8	ROBIN-11 15
cis-1,2-Dichloroethene	5000	450	<16	<16	<16	<16	<16	<16
Naphthalene	<73>	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	750	30000	<41>	180	<22	<26>	<22	<22
Trichloroethene	<30>	760	<23	240	<23	<23	<23	<23
Trichlorofluoromethane	<16	<16	<16	<16	<16	<16	<16	<16

¹ Full EPA 8260 scan was completed; only parameters detected are presented in this table.

< > Indicates compound present at a concentration above detection limit but below quantitation limit.

TABLE 4
SOIL LABORATORY ANALYSES
ROBINSON'S DRY CLEANERS
1819 EAST MILWAUKEE STREET
JANESVILLE, WISCONSIN
Concentrations in µg/kg

PARAMETER ¹	SAMPLE LOCATION AND DEPTH (FEET)								
	ROBIN-12 15	B-1 30	B-1 70	B-2 30	B-3 30	B-4 10	B-4 40	B-5 10	B-5 40
cis-1,2-Dichloroethene	<16	<16	<16	<16	<16	<16	<16	<16	<16
Naphthalene	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethene	<22	<27>	<22	<54>	<36>	<39>	<26>	<65>	<36>
Trichloroethene	<23	<23	<23	<23	<23	<23	<23	<23	<23
Trichlorofluoromethane	<16	<16	<16	<16	74	60	140	87	110

Fluorotrichloromethane EPA Region III Soil Residential 23,000 mg/kg
NR140 GW 3490/698 ug/L Soil-GW Migration 23 mg/kg

¹ Full EPA 8260 scan was completed; only parameters detected are presented in this table.

<> Indicates compound present at a concentration above detection limit but below quantitation limit.

TABLE 5
GROUNDWATER ANALYSES
ROBINSON'S DRY CLEANERS
1819 EAST MILWAUKEE STREET
JANESVILLE, WISCONSIN
All concentrations in µg/L

PARAMETER	WELL			
	MW-1	MW-2	MW-2D	MW-3
<i>Volatile organic compounds¹:</i>				
cis-1,2-Dichloroethene <i>20</i>	<0.28	2.9	<0.28	<0.28
Tetrachloroethene <i>5.05</i>	1.6	15	1.7	1.6
Trichloroethene	<0.29	<0.32>	<0.29	<0.29
<i>Field measurements:</i>				
pH	6.6	6.7	6.5	6.5
Conductivity (µS)	720	700	700	700
Temperature (°C)	14.7	14.5	14.1	16.0
Oxidation reduction potential (mV)	50	45	45	60

¹ Full EPA 8260 VOC scan was completed; only parameters detected are listed.

TABLE 6-A
ESTIMATED COSTS
SOIL REMEDIATION
IN-SITU CHEMICAL INJECTION
ROBINSON'S CLEANERS
MILWAUKEE STREET
JANESVILLE, WISCONSIN

ITEM	UNITS	QUANTITY	RATE	COST
<i>Engineering and Consulting:</i>				
Project management/reporting	Hours	16	\$140	\$2,240
Field oversight	Hours	32	\$70	\$2,240
Clerical & Accounting	Hours	8	\$50	\$400
Expenses	Days	4	\$150	\$600
Contingency	Percent	15		\$822
<i>Subtotal:</i>				\$6,302
<i>Subcontracting & Vending:</i>				
Chemical Vendor	Estimate	1	\$90,000	\$90,000
Geoprobe	Days	4	\$1,500	\$6,000
Contingency	Percent	15		\$14,400
<i>Subtotal:</i>				\$110,400
ESTIMATED TOTAL COST:				\$116,702

**TABLE 6-B
ESTIMATED COSTS
SOIL REMEDIATION
SOIL VAPOR EXTRACTION
ROBINSON'S CLEANERS
MILWAUKEE STREET
JANESVILLE, WISCONSIN**

ITEM	UNITS	QUANTITY	RATE	COST
<i>Engineering and Consulting:</i>				
Project management/reporting	Hours	60	\$140	\$8,400
Plans & specifications	Hours	80	\$100	\$8,000
Field oversight	Hours	80	\$70	\$5,600
Startup sampling	Hours	40	\$70	\$2,800
Operation & maintenance	Hours	120	\$70	\$8,400
Clerical & Accounting	Hours	8	\$50	\$400
Expenses - field	Days	25	\$150	\$3,750
Expenses - reports	Estimate	1	\$500	\$500
Contingency	Percent	15		\$5,603
<i>Subtotal:</i>				\$43,453
<i>Subcontracting & Vending:</i>				
Well Drilling ¹	Estimate	1	\$15,000	\$15,000
Pump & housing	Estimate	1	\$15,000	\$15,000
Construction contractor	Estimate	1	\$9,000	\$9,000
Laboratory fees ²	Estimate	19	\$50	\$950
Electrical fees	Estimate	1	\$5,000	\$5,000
Contingency	Percent	15		\$6,743
<i>Subtotal:</i>				\$51,693
ESTIMATED TOTAL COST:				\$95,145

¹ Assumes two 4-inch wells to a depth of 70 feet.

² Assumes one sample per day for 5 days; 1 sample per week for 3 weeks, then monthly sampling for 11 months in first year of operation.

TABLE 7-A
ESTIMATED COSTS
GROUNDWATER REMEDIATION
NATURAL ATTENUATION MONITORING
ROBINSON'S CLEANERS
MILWAUKEE STREET
JANESVILLE, WISCONSIN

ITEM	UNITS	QUANTITY	RATE	COST
<i>Engineering and Consulting:</i>				
Project management/reporting	Hours	40	\$140	\$5,600
Field sampling ¹	Hours	80	\$100	\$8,000
Clerical & Accounting	Hours	8	\$50	\$400
Expenses	Days	8	\$150	\$1,200
Contingency	Percent	15		\$2,280
<i>Subtotal:</i>				\$17,480
<i>Subcontracting & Vending:</i>				
Laboratory fees - VOCs ²	Each	32	\$100	\$3,200
Laboratory fees - natural attenuation ²	Each	8	\$80	\$640
Contingency	Percent	15		\$576
<i>Subtotal:</i>				\$3,840
ESTIMATED TOTAL COST:				\$21,320

¹ Quarterly sampling of four wells for two years.

² Analyzed for volatile organic compounds in all eight quarters; natural attenuation parameters in first two quarters.

**TABLE 7-B
ESTIMATED COSTS
GROUNDWATER REMEDIATION
GROUNDWATER EXTRACTION AND AIR STRIPPING
ROBINSON'S CLEANERS
MILWAUKEE STREET
JANESVILLE, WISCONSIN**

ITEM	UNITS	QUANTITY	RATE	COST
<i>Engineering and Consulting:</i>				
Project management/reporting	Hours	60	\$140	\$8,400
Plans & specifications	Hours	120	\$100	\$12,000
Field oversight	Hours	80	\$70	\$5,600
Startup sampling	Hours	40	\$70	\$2,800
Operation & maintenance	Hours	120	\$70	\$8,400
Field sampling	Hours	400	\$100	\$40,000
Clerical & Accounting	Hours	8	\$50	\$400
Expenses - field	Days	38	\$150	\$5,700
Expenses - reports	Estimate	1	\$500	\$500
Contingency	Percent	15		\$12,495
<i>Subtotal:</i>				\$96,295
<i>Subcontracting & Vending:</i>				
Drilling (assumes two wells)	Estimate	1	\$12,000	\$12,000
Treatment system	Estimate	1		\$50,000
Electrical supply	Estimate	1	\$6,000	\$6,000
Laboratory fees - System ¹	Each	81	\$100	\$8,100
Laboratory fees - quarterly monitoring ²	Each	32	\$100	\$3,200
Contingency	Percent	15		\$11,895
<i>Subtotal:</i>				\$79,300
ESTIMATED TOTAL COST:				\$175,595

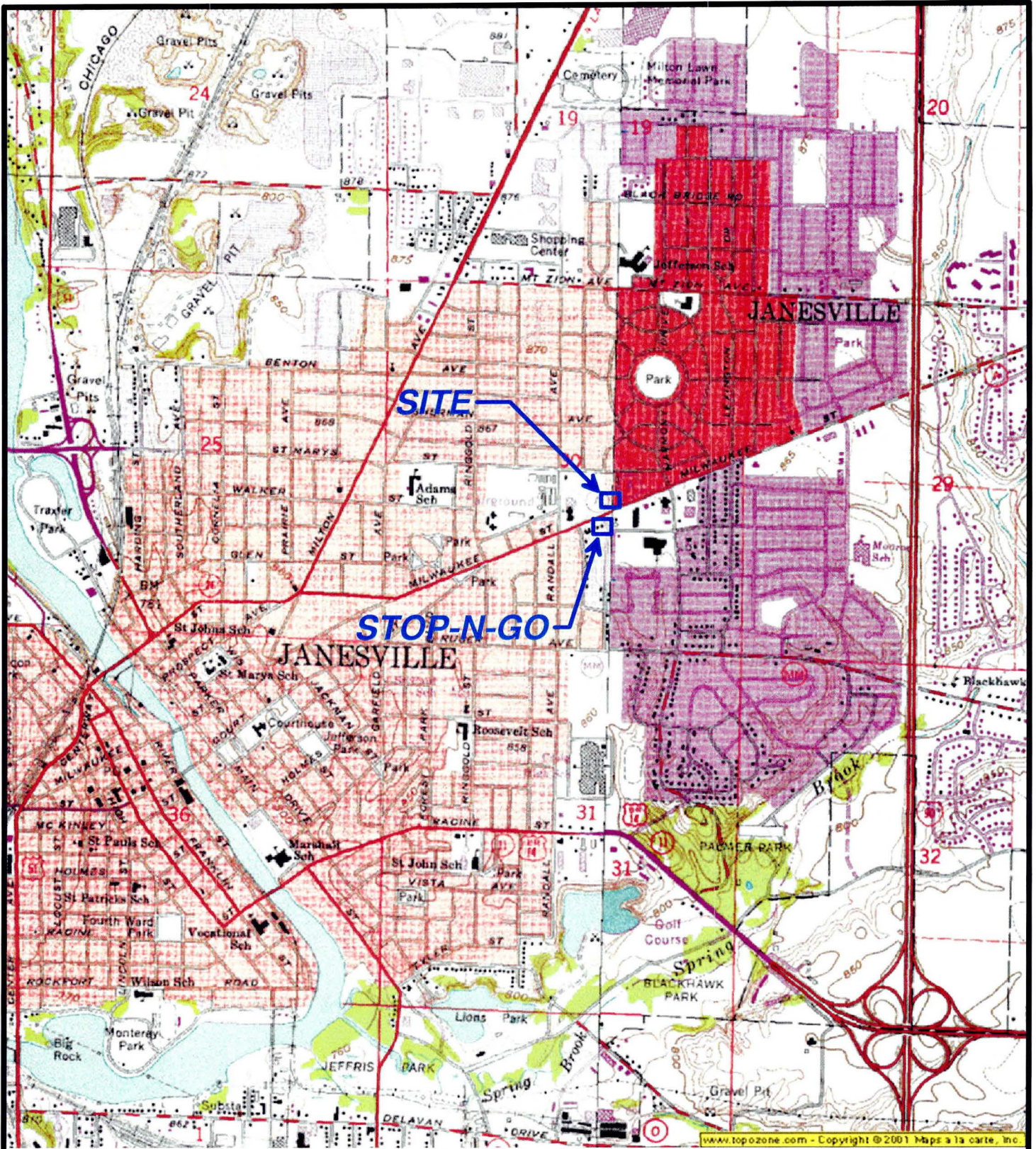
¹ One sample event (2 wells and effluent) per week for first month; one sample per month for remainder of two years.

² Quarterly sampling of four wells for two years.

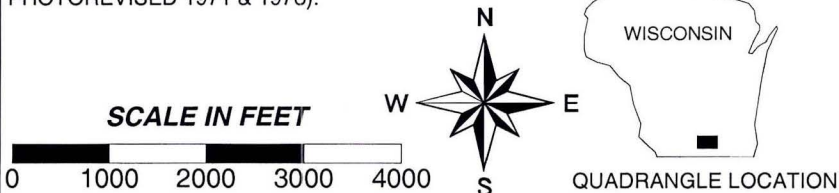
TABLE 7-C
ESTIMATED COSTS
GROUNDWATER REMEDIATION
OZONE SPARGING
ROBINSON'S CLEANERS
MILWAUKEE STREET
JANESVILLE, WISCONSIN

ITEM	UNITS	QUANTITY	RATE	COST
<i>Engineering and Consulting:</i>				
Project management/reporting	Hours	40	\$140	\$5,600
Field sampling ¹	Hours	80	\$100	\$8,000
Oversight	Hours	40	\$70	\$2,800
Operation & maintenance	Hours	200	\$70	\$14,000
Clerical & Accounting	Hours	8	\$50	\$400
Expenses - field	Days	19	\$150	\$2,850
Expenses - reports	Estimate	1	\$500	\$500
Contingency	Percent	15		\$5,048
<i>Subtotal:</i>				\$39,198
<i>Subcontracting & Vending:</i>				
Drilling (4 wells)	Estimate	1	\$21,000	\$21,000
Ozone sparge system	Estimate	1	\$92,500	\$92,500
Electrical supply	Estimate	1	\$3,000	\$3,000
Laboratory fees - VOCs ¹	Each	32	\$100	\$3,200
Contingency	Percent	15		\$17,955
<i>Subtotal:</i>				\$119,700
ESTIMATED TOTAL COST:				\$158,898

¹ Quarterly sampling of four wells for two years.



SOURCE: USGS 7.5-MINUTE QUADRANGLES: JANESVILLE EAST, WISCONSIN AND JANESVILLE WEST, WISCONSIN (1961, PHOTOREVISED 1971 & 1976).



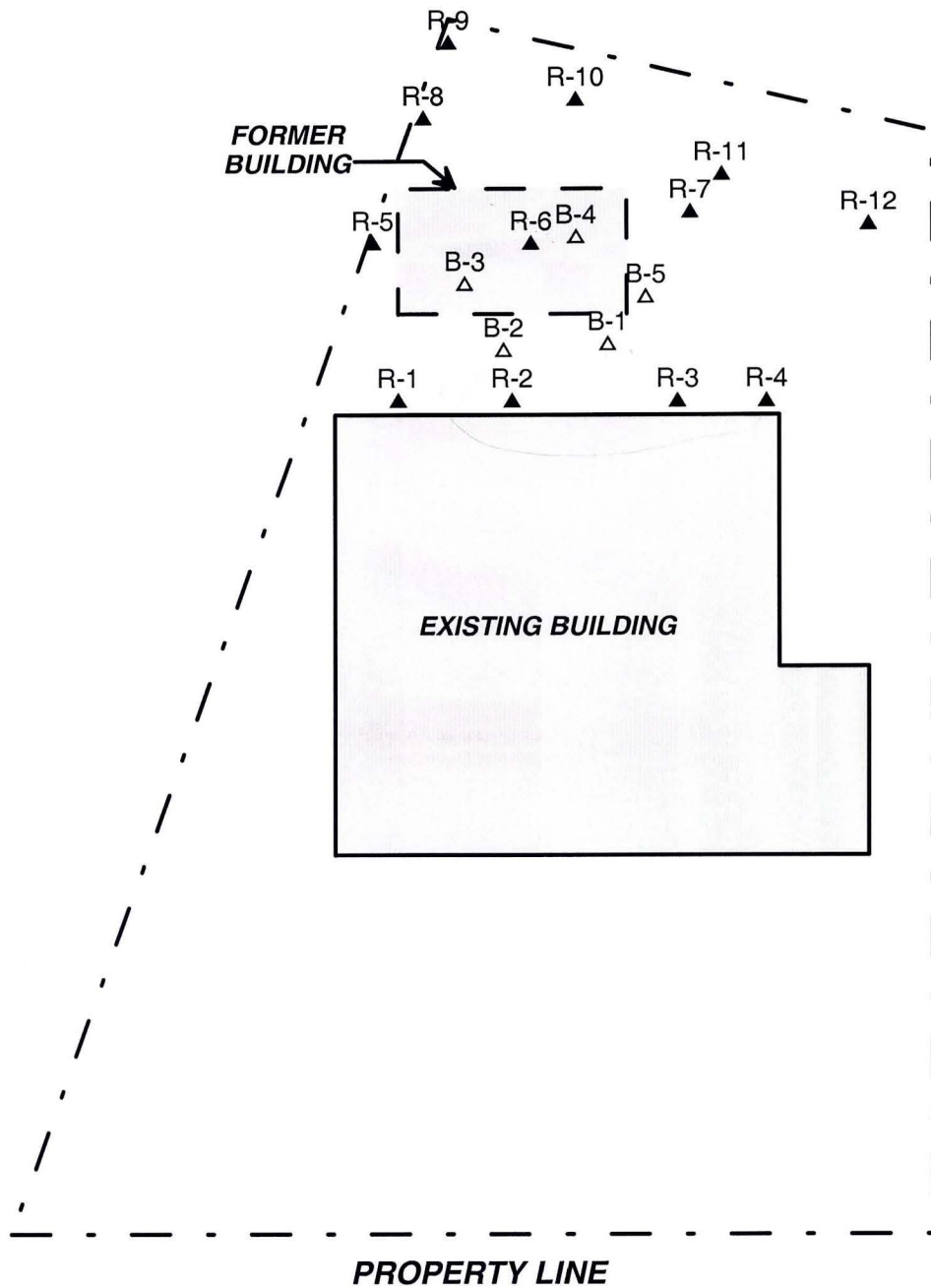
ROBIN, INC.
JANESVILLE, WISCONSIN

FIGURE 1
SITE LOCATION MAP

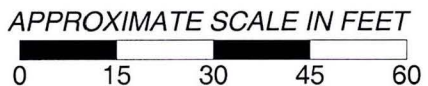
URS

PROJ. No.: 51279-002

DATE: JUNE 2002

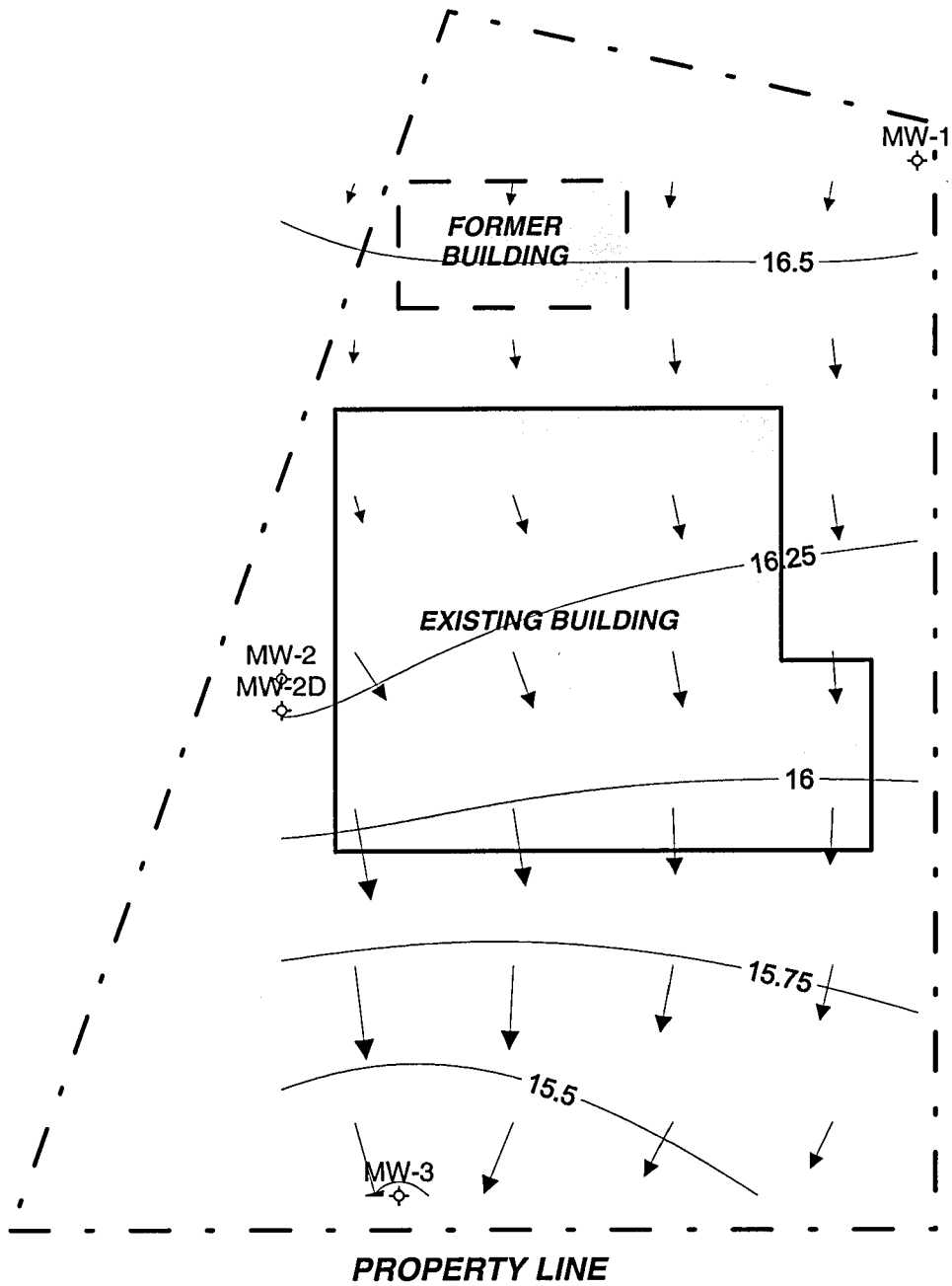


- ▲ GEOPROBE SAMPLE LOCATIONS
- △ SOIL BORINGS

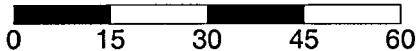


ROBINSON'S DRY CLEANERS 1819 WEST MILWAUKEE STREET JANESVILLE, WISCONSIN	
FIGURE 3 SOIL SAMPLE LOCATIONS	
	DATE: OCTOBER 2002
	PROJECT No.: 51279-002

- ◇ OBSERVATION WELL
- 16.25— GROUNDWATER LEVEL (FT, LOCAL DATUM)
- ← GROUNDWATER FLOW DIRECTION



APPROXIMATE SCALE IN FEET



ROBINSON'S DRY CLEANERS
1819 WEST MILWAUKEE STREET
JANESVILLE, WISCONSIN

FIGURE 4
WELL LOCATIONS AND
GROUNDWATER ELEVATIONS

URS

DATE: OCTOBER 2002

PROJECT No.: 51279-002

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Page 1 of 1

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number R-1	
Boring Drilled By (Firm name and name of crew chief) Dennis Totzke, Onsite Environmental Services		Date Drilling Started 07 / 12 / 02 M M / D D / Y Y		Date Drilling Completed 07 / 12 / 02 M M / D D / Y Y	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name _____	
Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL		Borehole Diameter 2.0 inches	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
County Rock		DNR County Code 5 4		Civil Town / City / or Village City of Janesville	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Sample Depth	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	42		1	SAND, gravelly, brown	SP		1.0							
			2	CLAY, silty, firm, moist, dark brn	CL									
2			3	Same, brown to yellow brown	CL		4	1.8						
			4											
3	48		6	SAND, fine grained, loose, moist, reddish brown	SM		6	2.0						
			7											
4			8	GRAVEL, sandy, loose, dry, brown	GP		8	1.8						
			9											
5	42		10	SAND, fine to coarse grained, little gravel, loose, moist, brown	SP		10	1.3						
			11											
6			12				12	2.7						
			13											
7	32		14				14	3.6						
			15											
8			15	EOB at 15 ft.			15	3.2						
			16	Abandoned with bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *Robinson Totzke* Firm: URS Corporation, Madison, WI

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$4,000 for each violation. Fines not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Page 1 of 1

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number R-2	
Boring Drilled By (Firm name and name of crew chief) Dennis Totzke, Onsite Environmental Services		Date Drilling Started 07 / 12 / 02 MM DD YY		Date Drilling Completed 07 / 12 / 02 MM DD YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name _____	
Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL		Borehole Diameter 2.0 inches	
Boring Location State Plane _____ N. _____ E S/C/N NW 1/4 of SE 1/4 of Section 30 T 3 N R 13 E		Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
County Rock		DNR County Code 5 4		Civil Town / City / or Village City of Janesville	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Sample Depth	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	36		1	SAND, gravelly, brown	SP		2	8.5						
			2	SILT, firm, moist, black	ML									
2			3	CLAY, olive gray	CL		4	6.9						
			4											
3	48		6	SAND, fine grained, loose, moist, reddish brown	SP		6	19.4						
			7											
4			8				8	25.7						
			9											
5	48		10				10	15.3						
			11											
6			12				12	5.0						
			13											
7	30		14				14	4.1						
			15											
8			15	EOB at 15 ft.			15	4.5						
			16	Abandoned with bentonite chips.										
			17											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Dennis Totzke* Firm **URS Corporation, Madison, WI**

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$4,000 for each violation. Fines not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Page 1 of 1

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number R-3	
Boring Drilled By (Firm name and name of crew chief) Dennis Totzke, Onsite Environmental Services		Date Drilling Started <u>07</u> / <u>12</u> / <u>02</u> MM / DD / YY		Date Drilling Completed <u>07</u> / <u>12</u> / <u>02</u> MM / DD / YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name _____	
Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL		Borehole Diameter 2.0 inches	

Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable)	
_____ NW 1/4 of SE 1/4 of Section 30 T 3 N R 13 E		Long _____		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	

County Rock		DNR County Code 5 4		Civil Town / City / or Village City of Janesville	
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Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Sample Depth	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	48		1	SAND, gravelly, brown	SP		2	15.9						
			2	SILT, firm, moist, black	ML									
2			3	CLAY, olive gray	CL		4	6.3						
			4											
3	48		6	SAND, some gravel, fine grained, loose, moist, reddish brown	SP		6	3.4						
			7											
4			8				8	5.6						
			9											
5	42		10				10	3.2						
			11											
6			12				12	3.3						
			13											
7	30		14				14							
			15											
8			16	EOB at 15 ft.			15	2.8						
			17	Abandoned with bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm URS Corporation, Madison, WI
---------------	---

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Page 1 of 1

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number R-4	
Boring Drilled By (Firm name and name of crew chief) Dennis Totzke, Onsite Environmental Services		Date Drilling Started 07 / 12 / 02 MM / DD / YY		Date Drilling Completed 07 / 12 / 02 MM / DD / YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name _____	
Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL		Borehole Diameter 2.0 inches	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable)	
_____ NW 1/4 of SE 1/4 of Section 30 T 3 N , R 13 E		Long _____		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County Rock		DNR County Code 5 4		Civil Town / City / or Village City of Janesville	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Sample Depth	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	48		1	SAND, gravelly, brown	SP									
			2	CLAY, silty, firm, moist, brown	CL		2.5							
2			3											
			4				2.5							
3	42		5											
			6				2.6							
4			7	SAND, some gravel, fine grained, loose, moist, reddish brown	SP									
			8				2.4							
5	36		9											
			10				2.1							
6			11											
			12				0.6							
7	36		13											
			14											
8			15											
			15	EOB at 15 ft. Abandoned with bentonite chips.			0.5							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Robert Janta Firm URS Corporation, Madison, WI

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Page 1 of 1

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number R-5	
Boring Drilled By (Firm name and name of crew chief) Dennis Totzke, Onsite Environmental Services		Date Drilling Started 07 / 12 / 02 MM / DD / YY		Date Drilling Completed 07 / 12 / 02 MM / DD / YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name _____	
Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL		Borehole Diameter 2.0 inches	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable)	
NW 1/4 of SE 1/4 of Section 30 T 3 N , R 13 E		Long _____		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet	
County Rock		DNR County Code 5 4		Civil Town / City / or Village City of Janesville	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Sample Depth	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	48		1	SAND, gravelly, moist, brown	SP									
			2	SILT, clayey, firm, moist, brown	ML		1.9							
2	48		3	SAND, some gravel, fine grained, loose, moist, reddish brown	SP		4	1.6						
			6				1.6							
3	42		7	Same, brown	SP		8	1.8						
			10				2.1							
4	24		11	EOB at 15 ft. Abandoned with bentonite chips.			12	1.9						
			14											
			15				15	1.8						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Dennis Totzke* Firm URS Corporation, Madison, WI

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Page 1 of 1

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number R-6	
Boring Drilled By (Firm name and name of crew chief) Dennis Totzke, Onsite Environmental Services		Date Drilling Started 07 / 12 / 02 MM / DD / YY	Date Drilling Completed 07 / 12 / 02 MM / DD / YY	Drilling Method Geoprobe	
DNR Facility Well No. _____	WI Unique Well No. _____	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter 2.0 inches
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____	Long _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
County Rock		DNR County Code 5 4	Civil Town / City / or Village City of Janesville		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Sample Depth	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	12		1	SAND, gravelly, loose, moist, brown	SP									
			2	SILT, clayey, firm, moist, brown	ML		2	2.4						
2			3	CLAY, silty, firm, moist, brown	CL		4	2.3						
			6				2.1							
4			8	SAND, some gravel, fine grained, loose, moist, reddish brown	SP		8	1.8						
			10				2.6							
5	42		11	Same, brown			12	1.2						
			15				1.5							
7	36		16	EOB at 15 ft.										
			17	Abandoned with bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Dennis Totzke* Firm URS Corporation, Madison, WI

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number R-7	
Boring Drilled By (Firm name and name of crew chief) Dennis Totzke, Onsite Environmental Services		Date Drilling Started 07 / 12 / 02 MM / DD / YY		Date Drilling Completed 07 / 12 / 02 MM / DD / YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name _____	
Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL		Borehole Diameter 2.0 inches	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
County Rock		DNR County Code 5 4		Civil Town / City / or Village City of Janesville	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Sample Depth	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	36		1	SAND, gravelly, loose, dry, tan	SP		2	1.1						
			2	SILT, clayey, firm, moist, black (upper 6"), olive brown	ML		4	0.3						
3	42		6	SAND, trace gravel, fine to coarse grained, loose, dry, brown	SP		6	0.9						
			8				1.5							
5	42		10	Same, brown			10	1.6						
			12				1.5							
7	24		14	EOB at 15 ft. Abandoned with bentonite chips.			15	1.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Robert Janta Firm URS Corporation, Madison, WI




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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number R-8	
Boring Drilled By (Firm name and name of crew chief) Dennis Totzke, Onsite Environmental Services		Date Drilling Started 07 / 12 / 02 MM / DD / YY		Date Drilling Completed 07 / 12 / 02 MM / DD / YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name _____	
Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL		Borehole Diameter 2.0 inches	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
_____ NW 1/4 of SE 1/4 of Section 30 T 3 N R 13 E		Long _____		_____ Feet _____ Feet	
County Rock		DNR County Code 5 4		Civil Town / City / or Village City of Janesville	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Sample Depth	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	18	1	1	SAND, gravelly, loose, dry, tan	SP		1.3							
			2	CLAY, silty, soft, moist to wet, brown	CL		1.1							
2	42	4	3											
			4											
3	42	6	5											
			6											
4	42	10	7											
			8	SAND, trace gravel, fine to coarse grained, loose, dry, brown	SP		1.3							
5	30	14	9											
			10	Same, brown										
6	30	18	11											
			12											
7	30	30	13											
			14											
			15	EOB at 15 ft.			15	0.8						
			16	Abandoned with bentonite chips.										
			17											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Dennis Totzke* Firm URS Corporation, Madison, WI

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number R-9	
Boring Drilled By (Firm name and name of crew chief) Dennis Totzke, Onsite Environmental Services		Date Drilling Started <u>07</u> / <u>12</u> / <u>02</u> MM / DD / YY		Date Drilling Completed <u>07</u> / <u>12</u> / <u>02</u> MM / DD / YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name _____	
Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL		Borehole Diameter <u>2.0</u> inches	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
_____ NW 1/4 of SE 1/4 of Section 30 T 3 N R 13 E		Long _____			
County Rock		DNR County Code <u>5</u> <u>4</u>		Civil Town / City / or Village City of Janesville	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Sample Depth	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	24		1	SAND, gravelly, loose, dry, tan	SP		2	0.0						
			2	SILT, clayey, firm, moist, brown	ML									
2			3	CLAY, silty, firm, moist, brown	CL		4	0.6						
			4											
3	36		6	SAND, fine grained, loose, moist to wet, reddish brown	SP		6	0.0						
			7	SAND, fine to coarse grained, trace gravel, dry brown										
4			8				8	0.8						
			9											
5	36		10				10	0.1						
			11											
6			12				12	0.2						
			13											
7	30		14				14							
			15											
			15	EOB at 15 ft.			15	0.6						
			16	Abandoned with bentonite chips.										
			17											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Robert J. Jantsch Firm URS Corporation, Madison, WI

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____	Boring Number R-10
Boring Drilled By (Firm name and name of crew chief) Dennis Totzke, Onsite Environmental Services		Date Drilling Started <u>07</u> / <u>12</u> / <u>02</u> MM / DD / YY	Date Drilling Completed <u>07</u> / <u>12</u> / <u>02</u> MM / DD / YY
Drilling Method Geoprobe		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL
DNR Facility Well No. _____	WI Unique Well No. _____	Common Well Name _____	Borehole Diameter 2.0 inches
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W
_____ NW 1/4 of SE 1/4 of Section 30 T 3 N , R 13 E		Long _____	
County Rock	DNR County Code <u>5</u> <u>4</u>	Civil Town / City / or Village City of Janesville	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Sample Depth	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	48		1	SILT, clayey, firm, moist, dark brown to black	ML		2	0.1						
2			2	CLAY, silty, firm, moist, brown	CL		4	0.0						
3	42		6				0.5							
4			8				0.1							
5	48		9	SAND, fine to coarse grained, trace gravel, dry, brown	SP		10	0.1						
6			12				0.0							
7	36		14				15	0.1						
			15	EOB at 15 ft. Abandoned with bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Robert Jantzen</i>	Firm URS Corporation, Madison, WI
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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Page 1 of 1

Facility / Project Name Robinson Dry Cleaners - 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number R-11	
Boring Drilled By (Firm name and name of crew chief) Dennis Totzke, Onsite Environmental Services		Date Drilling Started <u>07</u> / <u>12</u> / <u>02</u> MM / DD / YY	Date Drilling Completed <u>07</u> / <u>12</u> / <u>02</u> MM / DD / YY	Drilling Method Geoprobe	
DNR Facility Well No. _____	WI Unique Well No. _____	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter 2.0 inches
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____	Local Grid Location (If Applicable)		
_____ NW 1/4 of SE 1/4 of Section 30 T 3 N R 13 E		Long _____	_____ Feet	<input type="checkbox"/> N	<input type="checkbox"/> E
_____ Feet	<input type="checkbox"/> S	_____ Feet	<input type="checkbox"/> W		
County Rock		DNR County Code 5 4	Civil Town / City / or Village City of Janesville		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Sample Depth	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	48		1	SILT, clayey, firm, moist, dark brown	ML		1.6							
			2	CLAY, silty, firm, brown	CL		1.5							
2			3											
			4											
3	42		5											
			6											
4			7											
			8											
5	48		9											
			10											
6			11	SAND, fine to coarse grained, trace gravel, dry, brown	SP		1.9							
			12											
7	36		13											
			14											
			15	EOB at 15 ft. Abandoned with bentonite chips.			2.1							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Robert Janta* Firm URS Corporation, Madison, WI

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- Route To:
- Solid Waste
 - Wastewater
 - Emergency Response
 - Haz. Waste
 - Underground Tanks
 - Water Resources
 - Other _____

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number R-12	
Boring Drilled By (Firm name and name of crew chief) Dennis Totzke, Onsite Environmental Services		Date Drilling Started 07 / 12 / 02 MM / DD / YY		Date Drilling Completed 07 / 12 / 02 MM / DD / YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name _____	
Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL		Borehole Diameter 2.0 inches	
Boring Location State Plane _____ N. _____ E S/C/N NW 1/4 of SE 1/4 of Section 30 T 3 N , R 13 E			Local Grid Location (If Applicable) Lat _____ Long _____ <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W		
County Rock		DNR County Code 5 4		Civil Town / City / or Village City of Janesville	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Sample Depth	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	48		1	SILT, clayey, firm, moist, dark brown	ML		2	0.9						
2			2	CLAY, silty, firm, brown	CL		4	1.4						
3	36		6				1.0							
4			8				1.8							
5	42		10	SAND, fine to coarse grained, gravelly, dry, brown	SP		10	1.8						
6			12				1.6							
7	24		15				2.2							
			15	EOB at 15 ft. Abandoned with bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Robinson Totzke Firm URS Corporation, Madison, WI

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Page 1 of 5

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____	Boring Number B-1
Boring Drilled By (Firm name and name of crew chief) Dave Cruise, Badger State Drilling		Date Drilling Started <u>08</u> / <u>23</u> / <u>02</u> MM DD YY	Date Drilling Completed <u>08</u> / <u>23</u> / <u>02</u> MM DD YY
Drilling Method 4 1/4" ID HSA		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL
DNR Facility Well No. _____	WI Unique Well No. _____	Common Well Name _____	Borehole Diameter 8.3 inches
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
NW 1/4 of SE 1/4 of Section 30 T 3 N, R 13 E		Long _____	_____ Feet _____ Feet
County Rock	DNR County Code 5 4	Civil Town / City / or Village City of Janesville	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
				2" asphalt on 10" gravel subbase											
1	21	1, 2 3, 3	2 3 4 5	Silty CLAY, with trace fine-grained sand, soft, moist, orange brown	CL			6.8	5						
2	18	3, 3 9, 10	6 7 8 9 10	SAND, fine to coarse grained, trace gravel, medium dense, moist, yellowish orange to light brown	SW			6.8 6.2	12						
3	18	7, 9 11, 13	11 12 13 14 15	SAND, fine to coarse grained, little to some gravel, medium dense, moist, light brown				5.8	20						





I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Robert J. Janta</i>	Firm URS Corporation, Madison, WI
-------------------------------------	---

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$4,000 for each violation. Fines not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats





Boring Number B-1

Page 2 of 5

Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (IN)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
4	17	5, 7	16	SAND, fine to coarse grained, trace to little gravel, medium dense, moist, light brown ~19.5 ft, SAND, very fine to medium grained, trace gravel, medium dense, moist, tan	SW			7.0	17					
		10, 11	17											
5	15	6, 8	23	SAND, very fine to medium grained, trace gravel, medium dense, moist, tan ~24.5 ft, SAND, fine to coarse grained, trace gravel, medium dense, moist, light brown	SW			6.0	18					
		10, 12	24											
6	13	7, 10	28	SAND, fine to coarse grained, with some gravel, medium dense, moist, light brown	SW			5.6	23					
		13, 14	29											
7	13	8, 9	33	SAND, fine to coarse grained, trace to little gravel, medium dense, moist, light brown ~34.3 ft, SAND, very fine to medium grained, trace gravel, medium dense, moist, tan to light brown	SW			6.6	19					
		10, 10	34											

Boring Number B-1

Page 3 of 5

Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (IN)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
8	17	10, 8	38	SAND, very fine to medium grained, trace gravel, medium dense, moist, tan to light brown	SW			5.6	21					
		13, 15	39											
9	17	13, 16	43	~43.5 ft; SAND, very fine to medium grained, trace gravel, medium dense, moist, tan ~44 ft, 2" gravel seam followed by 4" seam of coarse sand, trace fine sand, trace to little gravel	SW			6.4	35					
		19, 23	44											
10	18	10, 11	49	SAND, fine grained, medium dense, moist, light brown	SP			6.2	26					
		15, 16	50											
11	20	8, 11	54	Top 2", SAND, fine grained, medium dense, moist, light brown SAND, fine to coarse grained, little to some gravel, medium dense, moist, light brown	SW			5.0	25					
		14, 16	55											

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Page 1 of 3

Facility / Project Name Robinson Dry Cleaners -- 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____	Boring Number B-2	
Boring Drilled By (Firm name and name of crew chief) Dave Cruise, Badger State Drilling		Date Drilling Started <u>08</u> / <u>26</u> / <u>02</u> MM DD YY	Date Drilling Completed <u>08</u> / <u>26</u> / <u>02</u> MM DD YY	Drilling Method 4 1/4" ID HSA
DNR Facility Well No. _____	WI Unique Well No. _____	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
NW 1/4 of SE 1/4 of Section 30 T 3 N, R 13 E		Long _____		_____ Feet _____ Feet
County Rock		DNR County Code 5 4	Civil Town / City / or Village City of Janesville	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	0	2, 2 2, 4	2	2" asphalt on 10" gravel subbase										
			4	No Recovery (from cuttings) Silty CLAY					4					
2	16	6, 8	8	Silty CLAY, trace gravel, soft, moist, orange brown to dark brown	CL			6.8	8					
			9	Silty SAND; fine to medium grained, trace gravel, loose, dark brown, moist	SM			5.8						
			10	SAND, fine to coarse grained, little gravel loose, moist, light brown	SW									
3	17	10, 11	14	SAND, fine to coarse grained, some gravel, medium dense, moist, yellow to light brown	SW			5.6	15					





I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Robert J. ...* Firm **URS Corporation, Madison, WI**

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$4,000 for each violation. Fines not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats

Boring Number B-2

Page 2 of 3




Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (IN)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
4	17	6, 8 10, 11	16 17 18 19 20	SAND, fine to coarse grained, some gravel, medium dense, moist, tan to light brown	SW			5.6	18					
5	17	8, 10 12, 14	21 22 23 24 25	SAND, fine to coarse grained, some gravel, medium dense, moist, light brown	SW			4.2	22					
6	17	9, 13 15, 19	26 27 28 29 30	SAND and GRAVEL, fine to coarse grained sand with much gravel, medium dense, moist, light brown	SW			6.4	28					
7	18	6, 10 14, 18	31 32 33 34 35	SAND, fine to medium grained, trace gravel, medium dense, moist, light brown	SW			4.0	24					

Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Page 1 of 3

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number B-3	
Boring Drilled By (Firm name and name of crew chief) Dave Cruise, Badger State Drilling		Date Drilling Started <u>08</u> / <u>21</u> / <u>02</u> MM / DD / YY	Date Drilling Completed <u>08</u> / <u>21</u> / <u>02</u> MM / DD / YY	Drilling Method 4 1/4" ID HSA	
DNR Facility Well No. _____	WI Unique Well No. _____	Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W		
NW 1/4 of SE 1/4 of Section <u>30</u> T <u>3</u> N, R <u>13</u> E		County Rock		DNR County Code 5 4	Civil Town / City / or Village City of Janesville





Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
				2" asphalt on 10" gravel subbase											
1	20	4, 4 4, 5	2 3 4 5	Silty CLAY, with trace fine-grained sand, soft, dry, orange brown	CL			0	8						
2	19	6, 7 8, 10	6 7 8 9 10	SAND and GRAVEL, fine to coarse grained, medium dense, dry, orange brown to light brown	SW			0.8	15						
3	20	5, 7 10, 16	11 12 13 14 15	SAND, fine to coarse grained, trace gravel, trace silty clay, medium dense, dry to moist, orange brown to light brown	SW			0	17						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Robert J. Janta* Firm **URS Corporation, Madison, WI**

Boring Number B-3

Page 2 of 3




Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (IN)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
4	19	8, 11	16	SAND, fine to coarse grained, trace to little gravel, dry to moist, tan to light brown	SW			0.6	25					
		14, 16	17											
5	16	6, 8	23	SAND, fine to coarse grained, trace gravel, medium dense, dry to moist, light brown	SW			0.6	18					
		10, 11	24											
6	16	8, 10	28	SAND, fine to coarse grained, little gravel, medium dense, moist, light brown	SW			1.6	24					
		14, 15	29											
7	15	15, 19	33	Top 3": SAND, coarse grained, moist, light brown SAND, very fine to medium grained, trace gravel, dense, moist, light brown	SW			1.6	40					
		21, 29	34											

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number B-4	
Boring Drilled By (Firm name and name of crew chief) Dave Cruise, Badger State Drilling		Date Drilling Started <u>08</u> / <u>21</u> / <u>02</u> MM DD YY	Date Drilling Completed <u>08</u> / <u>21</u> / <u>02</u> MM DD YY	Drilling Method 4 1/4" ID HSA	
DNR Facility Well No. _____	WI Unique Well No. _____	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter 8.3 inches
Boring Location State Plane _____ N. _____ E S/C/N			Local Grid Location (If Applicable)		
NW 1/4 of SE 1/4 of Section 30 T 3 N, R 13 E			<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
County Rock		DNR County Code 5 4	Civil Town / City / or Village City of Janesville		





Sample Number	Length Recovered (N)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			2	2" asphalt on 10" gravel subbase											
1	16	2, 3 3, 4	4 5	Silty CLAY, with trace fine-grained sand, soft, dry, orange brown	CL			0	6						
2	13	2, 4 7, 9	9 10	SAND, fine to coarse grained, little gravel, medium dense, dry to moist, light brown	SW			1.2	11						
3	14	5, 9 11, 14	14 15	SAND, fine to coarse grained, trace to little gravel, medium dense, dry to moist, tan	SW			1.4	20						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm URS Corporation, Madison, WI
--	---

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$4,000 for each violation. Fines not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats

Boring Number B-4




Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
4	16	6, 7	16	1" gravel seam ~19 ft followed by 3" very fine grained sand and 1" seam of coarse sand SAND, fine to coarse grained, medium dense, dry to moist, tan to light brown	SW			2.2	15					
		8, 10	17											
5	16	5, 6	23	SAND, fine to coarse grained, little gravel, medium dense, dry to moist, yellowish orange to light brown Some gravel	SW			2.2	21					
		15, 14	24											
6	18	7, 10	28	SAND, fine to coarse grained, little to some gravel, medium dense, dry to moist, yellowish orange to light brown	SW			2.8	20					
		10, 13	29											
7	19	9, 12	33	SAND, very fine to medium grained, trace gravel, medium dense, dry to moist, light brown	SW			2.0	26					
		14, 16	34											

Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Page 1 of 3

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number B-5	
Boring Drilled By (Firm name and name of crew chief) Dave Cruise, Badger State Drilling		Date Drilling Started <u>08</u> / <u>21</u> / <u>02</u> MM DD YY	Date Drilling Completed <u>08</u> / <u>21</u> / <u>02</u> MM DD YY	Drilling Method 4 1/4" ID HSA	
DNR Facility Well No. _____	WI Unique Well No. _____	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter 8.3 inches
Boring Location State Plane _____ N. _____ E/S/C/N NW 1/4 of SE 1/4 of Section 30 T 3 N, R 13 E			Local Grid Location (If Applicable) Lat _____ Long _____ <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
County Rock		DNR County Code 5 4	Civil Town / City / or Village City of Janesville		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
				2" asphalt on 10" gravel subbase											
1	19	3, 4 4, 6	2 3 4 5	Silty CLAY, trace fine-grained sand, soft, dry to moist, light brown	CL			0	8						
2	19	4, 14 16, 21	6 7 8 9 10	SAND, fine to coarse grained, little gravel, trace silt, medium dense, dry to moist, yellowish orange	SW			0.6	30						
3	12	9, 10 15, 21	11 12 13 14 15	SAND, fine to coarse grained, some gravel, trace silt, medium dense, dry to moist, yellowish orange	SW			1.8	25						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Robert J. [Signature]













Firm

URS Corporation, Madison, WI

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Boring Number B-5

Page 2 of 3

Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (IN)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
4	14	7, 10	16	SAND, fine to coarse grained, some gravel, trace silt, medium dense, moist, yellowish orange to light brown	SW			1.8	21					
		11, 11	17											
5	17	5, 10	18	SAND, fine to coarse grained, trace gravel, medium dense, moist, yellowish orange	SW			1.2	23					
		13, 12	19											
6	21	8, 8	20	SAND, fine to coarse grained, trace gravel, medium dense, moist, yellowish orange	SW			1.8	17					
		9, 10	21											
7	17	6, 10	22	2" gravel seam, moist	SW			1.8	21					
		11, 13	23											
			24	SAND, fine to coarse grained, trace gravel, medium dense, moist, yellowish orange	SW			1.8	21					
			26	SAND, fine to coarse grained, trace gravel, medium dense, moist, yellowish orange	SW			1.2	23					
			28	SAND, fine to coarse grained, trace gravel, medium dense, moist, yellowish orange	SW			1.8	17					
			30	2" gravel seam, moist	SW			1.8	21					
			32	SAND, fine to coarse grained, trace gravel, medium dense, moist, yellowish orange	SW			1.8	21					
			34	SAND, fine to coarse grained, trace gravel, medium dense, moist, yellowish orange	SW			1.8	21					
			36	SAND, fine to coarse grained, trace gravel, medium dense, moist, yellowish orange	SW			1.8	21					
			37	SAND, fine to coarse grained, trace gravel, medium dense, moist, yellowish orange	SW			1.8	21					

Notice: Please complete Form 3300-5P and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form 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 this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		Rock	ROBINSON Cleaners
Common Well Name		Gov't Lot (If applicable)	Facility ID
B-3, B-4 & B-5			
Grid Location		Street Address of Well	
NW 1/4 of SE 1/4 of Sec. 30 ; T. 3 N; R. 13		1819 E Milwaukee St	
Local Grid Origin		City, Village, or Town	
Jaxonville WI		Present Well Owner	
Original Owner		Street Address or Route of Owner	
City, State, Zip Code			
Reason For Abandonment		WI Unique Well No.	
end of study		of Replacement Well	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION	(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL
Original Construction Date	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
8-21-62	Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well	Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Water Well	Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input checked="" type="checkbox"/> Borehole / Drillhole	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No
If a Well Construction Report is available, please attach.	Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Construction Type:	Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Drilled	If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Driven (Sandpoint)	Required Method of Placing Sealing Material
<input type="checkbox"/> Dug	<input checked="" type="checkbox"/> Conductor Pipe-Gravity
<input type="checkbox"/> Other (Specify)	<input type="checkbox"/> Conductor Pipe-Pumped
Formation Type:	<input type="checkbox"/> Screened & Poured (Bentonite Chips)
<input checked="" type="checkbox"/> Unconsolidated Formation	Sealing Materials
<input type="checkbox"/> Bedrock	<input type="checkbox"/> Neat Cement Grout
Total Well Depth (ft.)	<input type="checkbox"/> Sand-Cement (Concrete) Grout
40	<input type="checkbox"/> Concrete
Casing Diameter (in.)	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)
	<input type="checkbox"/> Bentonite-Sand Slurry " "
Casing Depth (ft.)	<input type="checkbox"/> Bentonite Chips
	For monitoring wells and monitoring well boreholes only
Lower Drillhole Diameter (in.)	<input checked="" type="checkbox"/> Bentonite Chips
	<input checked="" type="checkbox"/> Granular Bentonite
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	<input type="checkbox"/> Bentonite - Cement Grout
If Yes, To What Depth? Feet	<input type="checkbox"/> Bentonite - Sand Slurry
Depth to Water (Feet)	
Dry	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
Bent Chips BA 3	Surface	46	13		
Bent Chips BA 4		40	13		
Bent Chips BA 5		40	13		

(6) Comments:

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
Badger State Drilling Co., Inc.		8-21-62	
Signature of Person Doing Work		Date Signed	
<i>[Signature]</i>		8-21-62	
Street or Route		Telephone Number	
360 Business Park Cr.		(608) 877-9770	
City, State, Zip Code			
Stoughton, WI 53589			

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

Notice: Please complete Form 3300-5P and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form 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 this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION			(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County <u>Rock</u>	Facility Name <u>Robinson's Choppen</u>	
Common Well Name <u>B-2</u> Gov't Lot (if applicable)			Facility ID	License/Permit/Monitoring No.
Grid Location <u>NW 1/4 of SE 1/4 of Sec. 30 ; T. 3 N.; R. 13</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W			Street Address of Well <u>Milwaukee WI</u>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>			City, Village, or Town <u>Janesville WI</u>	
Lat. _____ Long _____ or _____			Present Well Owner <u>Same</u>	Original Owner
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone			Street Address of Route of Owner <u>Milwaukee WI</u>	
Reason For Abandonment <u>End of Study</u>		WI Unique Well No. of Replacement Well	City, State, Zip Code <u>Janesville WI</u>	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL			
Original Construction Date <u>8-26-02</u>	If a Well Construction Report is available, please attach.	Pump & Piping Removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) Removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Screen Removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Casing Left in Place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Total Well Depth (ft.) <u>40</u> Casing Diameter (in.) _____		Was Casing Cut Off Below Surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
(From ground surface) Casing Depth (ft.) _____		Did Sealing Material Rise to Surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Lower Drillhole Diameter (in.) _____		Did Material Settle After 24 Hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		If Yes, Was Hole Retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
If Yes, To What Depth? _____ Feet		Required Method of Placing Sealing Material			
Depth to Water (Feet) <u>Dry</u>		<input checked="" type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped			
		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)			
		Sealing Materials		For monitoring wells and monitoring well boreholes only	
		<input type="checkbox"/> Neat Cement Grout		<input checked="" type="checkbox"/> Bentonite Chips	
		<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Granular Bentonite	
		<input type="checkbox"/> Concrete		<input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Clay-Sand Slurry (11 lb/gal. wt.)		<input type="checkbox"/> Bentonite - Sand Slurry	
		<input type="checkbox"/> Bentonite-Sand Slurry " "			
		<input type="checkbox"/> Bentonite Chips			
(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
<u>Bent-Chips</u>	Surface	<u>40</u>	<u>9</u>		

(6) Comments: _____

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment
Badger State Drilling Co., Inc.		<u>8-26-02</u>
Signature of Person Doing Work	Date Signed	
<u>[Signature]</u>	<u>8-26-02</u>	
Street or Route	Telephone Number	
<u>360 Business Park Cr.</u>	<u>(608) 877-9770</u>	
City, State, Zip Code		
<u>Stoughton, WI 53589</u>		

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

Notice: Please complete Form 3300-5P and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form 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 this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		Rock	Robinson Cleaves
Common Well Name	Gov't Lot (If applicable)	Facility ID	License/Permit/Monitoring No.
B-1			
Grid Location		Street Address of Well	
NW 1/4 of SE 1/4 of Sec. 30 ; T. 3 N.; R. 13	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Milwaukee Ave	
ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>	City, Village, or Town	
		JANESVILLE WI	
Lat. " Long "		Present Well Owner	Original Owner
Sr. Plane ft. N. ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone		Street Address or Route of Owner	
		Milwaukee Ave	
Reason For Abandonment	WI Unique Well No. of Replacement Well	City, State, Zip Code	
END OF STUDY		JANESVILLE	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date	If a Well Construction Report is available, please attach.	Pump & Piping Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
8-23-02		Liner(s) Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Screen Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Construction Type:		Casing Left in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Was Casing Cut Off Below Surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Other (Specify)		Did Sealing Material Rise to Surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Formation Type:		Did Material Settle After 24 Hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		If Yes, Was Hole Retopped?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Total Well Depth (ft.) (From ground surface)	Casing Diameter (in.)	Required Method of Placing Sealing Material	
85		<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
	Casing Depth (ft.)	<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	
		Sealing Materials	
Lower Drillhole Diameter (in.)		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Bentonite Chips	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		For monitoring wells and monitoring well boreholes only	
If Yes, To What Depth? Feet		<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Bentonite - Sand Slurry	
Depth to Water (Feet)			

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
Red Chips	Surface	85	38		

(6) Comments:

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
Badger State Drilling Co., Inc.		8-23-02	
Signature of Person Doing Work		Date Signed	
		8-23-02	
Street or Route		Telephone Number	
360 Business Park Cr.		(608) 877-9770	
City, State, Zip Code			
Stoughton, WI 53589			

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	

Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Page 1 of 5

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number MW-1	
Boring Drilled By (Firm name and name of crew chief) Dave Cruise, Badger State Drilling		Date Drilling Started <u>08</u> / <u>26</u> / <u>02</u> MM DD YY		Date Drilling Completed <u>08</u> / <u>26</u> / <u>02</u> MM DD YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name MW-1	
Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL		Borehole Diameter 8.3 inches	
Boring Location State Plane _____ N. _____ E/S/C/N NW 1/4 of SE 1/4 of Section 30 T 3 N, R 13 E				Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet	

County Rock	DNR County Code 5 4	Civil Town / City / or Village City of Janesville
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Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	16	20, 15 15, 19	2	2" asphalt on 10" gravel subbase										
			3	(From cuttings) Silty CLAY	CL									
			9	SAND, fine to coarse grained, trace gravel, dense, moist, yellowish orange to light brown	SW			6.4	30					











I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Robert Javuta* Firm **URS Corporation, Madison, WI**

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$4,000 for each violation. Fines not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats

Boring Number MW-1

Page 2 of 5

Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (IN)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
2	16	7, 11	16	SAND and GRAVEL, fine to coarse grained sand, some gravel, medium dense, moist, light brown ~19.5 ft, SAND, fine to medium grained, trace gravel, medium dense, moist, tan to light brown	SW			7.0	23					
		12, 13	17											4.4
3	17	10, 19	28	SAND, fine to coarse grained, with some gravel, dense, moist, light brown ~28.5 ft, 3" seam of very fine to coarse grained sand, trace gravel, moist, light brown	SW			6.4	40					
		21, 20	29											
			30	SAND, fine to coarse grained, with some gravel, dense, moist, light brown										
			31											
			32											
			33											
			34											
			35											
			36											
			37											

Boring Number MW-1

Page 3 of 5

Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (IN)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
4	18	8, 10 13, 12	38 39 40 41 42 43 44 45 46 47	SAND, fine to coarse grained, trace gravel, medium dense, moist, light brown	SW			5.6	23					
5	18	9, 15 16, 24	48 49 50 51 52 53 54 55 56 57 58 59	Top 8"; SAND, fine to coarse grained, trace gravel, medium dense, moist, light brown SAND, very fine to medium grained, trace gravel, dense, moist, tan to light brown	SW			6.6 8.0	31					

Boring Number MW-1

Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (IN)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
6	19	9, 11 17, 18	60	SAND, fine to medium grained, trace gravel, medium dense, moist, light brown	SW			8.6	28					
7	18	12, 15 22, 21	68 69 70	Top 6": SAND, fine to coarse grained, some gravel, medium dense, moist, brown 4": SAND, fine to medium grained, moist, tan SAND, fine to coarse grained, trace gravel, moist, dense, light brown	SW			8.0	37					
8	21	5, 30 29, 28	78 79 80	Top 11": SAND, fine to medium grained, trace gravel, very dense, moist, light brown 1" sandstone fragments SAND, fine to coarse grained, little gravel, very dense, moist, light brown	SW			5.2 8.2	59					

Facility/Project Name Robinson's Dry Cleaners 1819 E. Milwaukee St., Janesville, WI	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ <input type="checkbox"/> S. _____ <input type="checkbox"/> W.	Well Name <p style="text-align: center; font-size: 1.2em;">MW-1</p>
Facility License, Permit or Monitoring Number _____	Grid Origin Location Lat. _____ Long. _____ St. Plane _____ ft. N. _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____ PF 649 _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Distance Well Is From Waste/Source Boundary _____	Date Well Installed <p style="text-align: center;"> 0 8 / 2 6 / 0 2 m m d d y y </p>
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No	Section Location of Waste/Source <input checked="" type="checkbox"/> E NW1/4 of SE 1/4 of Sec. 30, T. 3 N, R. 13 <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) <p style="text-align: center; font-size: 1.1em;">Dave Cruise</p>
	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Badger State Drilling

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft MSL or <u>2.0</u> ft</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> 12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/> </div> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/> _____</p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____</p> <p>17. Source of water (attached analysis): _____</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>9.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Flush Mount Other <input type="checkbox"/> _____ d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/> _____</p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Annular Space Seal <input type="checkbox"/> _____ Coarse sand Other <input checked="" type="checkbox"/> _____</p> <p>5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input checked="" type="checkbox"/> 3 2 c. <u>1500</u> lb Other <input type="checkbox"/> _____</p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>Ohio 40/60</u> _____ b. Volume added <u>50</u> lb</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>Ohio #5</u> _____ b. Volume added <u>200</u> lb</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/> _____</p> <p>10. Screen material: Schedule 40 PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> _____ b. Manufacturer <u>Monoflex</u> c. Slot size <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.</p> <p>11. Backfill material (below filler pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/> _____</p>
--	--	---

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Robert Jantz Firm URS Corporation, Madison, WI

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: shaded areas are for DNR use only. See instruction for more information including where the completed form should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>Robinson Cleaners</u>	County Name <u>Rock</u>	Well Name <u>MW-1</u>
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number <u>PE649</u>
		DNR Well ID 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 84 min.

4. Depth of well (from top of well casing) 89.0 ft.

5. Inside diameter of well 2.067 in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well 84.0 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)

11. Additional comments on development:

11. Depth to Water Before Development After Development

(from top of well casing) a. 82.60 ft. 82.60 ft.

Date b. 08/29/02 08/29/02
m m d d y y y m m d d y y y

Time c. 3:00 a.m. p.m. 4:30 a.m. p.m.

12. Sediment in well bottom 0.0 inches 0.0 inches

13. Water clarity Clear 10 Clear 20
Turbid 15 Turbid 25
(Describe) Dark Brown (Describe) clear

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. Well developed by: Name (first, last) and Firm

First Name: _____ Last Name: _____

Firm: BADGER STATE DRILLING

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Address: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Robert Nauta



Print Name: ROBERT NAUTA

Firm: URS

NOTE: See instructions for more information including a list of county codes and well type codes.

- Route To:
- Solid Waste
 - Wastewater
 - Emergency Response
 - Haz. Waste
 - Underground Tanks
 - Water Resources
 - Other _____

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number MW-2	
Boring Drilled By (Firm name and name of crew chief) Dave Cruise, Badger State Drilling		Date Drilling Started <u>08</u> / <u>28</u> / <u>02</u> MM DD YY	Date Drilling Completed <u>08</u> / <u>28</u> / <u>02</u> MM DD YY	Drilling Method 4 1/4" ID HSA	
DNR Facility Well No. _____	WI Unique Well No. _____	Common Well Name MW-2		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable)	
NW 1/4 of SE 1/4 of Section 30 T 3 N, R 13 E		Long _____		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
County Rock		DNR County Code 5 4		Civil Town / City / or Village City of Janesville	

Sample Number	Length Recovered (N)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	16	10, 13 17, 21	0-2	Grass and topsoil										
			2-6	(From cuttings) Silty CLAY	CL									
			6-10	SAND, fine to coarse grained, some gravel, medium dense to dense, dry to moist, light brown	SW			8.4	30					



I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Robert J. Janta* Firm **URS Corporation, Madison, WI**

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$4,000 for each violation. Fines not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats

Boring Number MW-2

Page 2 of 5

Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (IN)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
2	18	6, 10	16	SAND, fine to coarse grained sand, trace to little gravel, medium dense, dry to moist, light brown	SW			13.6	23					
		13, 15	17											
3	19	11, 12	18	~28.5 ft: SAND, fine to coarse grained, little gravel, medium dense, moist, light brown ~30 ft: 3" seam of sand and gravel ~30.25 ft: SAND, fine to medium grained, trace gravel, medium dense, moist, tan to light brown	SW			19.2	23					
		11, 11	19											

Boring Number MW-2

Page 3 of 5

Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (IN)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
4	20	8, 10 12, 12	38 39 40 41 42 43 44 45 46 47 48	SAND, very fine to medium grained, trace gravel, medium dense, moist, tan to light brown	SW			14.6	24					
5	18	15, 17 18, 11	49 50 51 52 53 54 55 56 57 58 59	SAND, fine to coarse grained, little gravel, dense, moist, light brown	SW			30	35					

Boring Number MW-2

Page 4 of 5

Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (IN)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
6	21	10, 13 16, 18	59.5 - 60	SAND, fine to coarse grained, trace to little gravel, medium dense, moist, light brown ~59.5 ft: SAND, fine to medium grained, trace gravel, medium dense, moist, tan to light brown	SW	[Hatched Pattern]		8.4	29					
7	17	15, 14 20, 23	69 - 70	SAND, fine to coarse grained, trace gravel, dense, moist, light brown	SW	[Hatched Pattern]		22	34					
8	23	22, 21 21, 20	79.5 - 80	SAND, fine to medium grained, trace gravel, dense, moist, tan to light brown ~79.75 ft: SAND, fine to coarse grained, trace gravel, dense, moist, light brown	SW	[Hatched Pattern]		16.6	42					

Facility/Project Name Robinson's Dry Cleaners 1819 E. Milwaukee St., Janesville, WI	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ <input type="checkbox"/> S. _____ <input type="checkbox"/> W.	Well Name <p style="text-align: center; font-size: 1.2em;">MW-2</p>
Facility License, Permit or Monitoring Number _____	Grid Origin Location Lat. _____ Long. _____ St. Plane _____ ft. N, _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____ PE 918
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Distance Well Is From Waste/Source Boundary _____	Date Well Installed <p style="text-align: center;"> 0 8 / 2 8 / 0 2 m m d d y y </p>
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No	Section Location of Waste/Source <input checked="" type="checkbox"/> E NW1/4 of SE 1/4 of Sec. 30, T. 3 N, R. 13 <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Dave Cruise _____ Badger State Drilling
Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> 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 2.0 ft

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

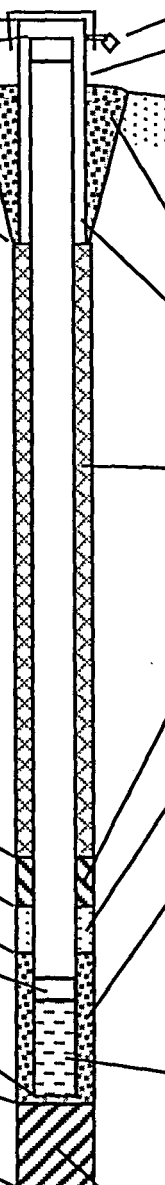
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 Other _____

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe: _____

17. Source of water (attached analysis):



1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: 4.0 in.
 b. Length: 6.0 ft.
 c. Material: Steel 0 4
 Other _____
 Stick-up _____ Other _____

d. Additional protection? Yes No
 If yes, describe: _____

3. Surface seal: Bentonite 3 0
 Concrete 0 1
 Other _____

4. Material between well casing and protective pipe:
 Bentonite 3 0
 Annular Space Seal _____
 Coarse sand _____ Other _____

5. Annular space seal:
 a. Granular Bentonite 3 3
 b. _____ Lbs/gal mud weight Bentonite-sand slurry 3 5
 c. _____ Lbs/gal mud weight. Bentonite slurry 3 1
 d. _____ % Bentonite Bentonite-cement grout 5 0
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 0 1
 Tremie pumped 0 2
 Gravity 0 8

6. Bentonite seal:
 a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite pellets 3 2
 c. _____ 1500 lb _____ Other _____

7. Fine sand material: Manufacturer, product name & mesh size
 a. Ohio 40/60 _____
 b. Volume added 50 lb

8. Filter pack material: Manufacturer, product name & mesh size
 a. Ohio #5 _____
 b. Volume added 250 lb

9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other _____

10. Screen material: Schedule 40 PVC
 a. Screen type: Factory cut 1 1
 Continuous slot 0 1
 Other _____
 b. Manufacturer Monoflex
 c. Slot size 0.010 in.
 d. Slotted length: 1.00 ft.

11. Backfill material (below filler pack): None 1 4
 Other _____

E. Bentonite seal, top _____ ft MSL or 2.0 ft

F. Fine sand, top _____ ft MSL or 7.7.0 ft

G. Filter pack, top _____ ft MSL or 7.8.0 ft

H. Screen joint, top _____ ft MSL or 8.0.0 ft

I. Well bottom _____ ft MSL or 9.0.0 ft

J. Filter pack, bottom _____ ft MSL or 9.0.0 ft

K. Borehole, bottom _____ ft MSL or 9.0.0 ft

L. Borehole, diameter 8.3 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.05 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Robert J. Jantsch Firm URS Corporation, Madison, WI

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: shaded areas are for DNR use only. See instruction for more information including where the completed form should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>Robinson Cleaners</u>	County Name <u>Rock</u>	Well Name <u>MW-2</u>
Facility License, Permit or Monitoring Number	County Code ---	Wis. Unique Well Number <u>PE98</u>
		DNR Well ID Number ---

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/>	41
surged with bailer and pumped	<input checked="" type="checkbox"/>	61
surged with block and bailed	<input type="checkbox"/>	42
surged with block and pumped	<input type="checkbox"/>	62
surged with block, bailed and pumped	<input type="checkbox"/>	70
compressed air	<input type="checkbox"/>	20
bailed only	<input type="checkbox"/>	10
pumped only	<input type="checkbox"/>	51
pumped slowly	<input checked="" type="checkbox"/>	50
Other _____	<input type="checkbox"/>	

3. Time spent developing well 93 min.

4. Depth of well (from top of well casing) 92.9 ft.

5. Inside diameter of well 2.067 in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well 93.0 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. <u>85.80</u> ft.	<u>85.80</u> ft.
Date	b. <u>08/29/02</u> m m d d y y y y	<u>08/29/02</u> m m d d y y y y
Time	c. <u>10:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>11:33</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>light brown</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>clear</u>

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l

15. COD _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: _____ Last Name: _____

Firm: BADGER STATE DRILLING

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Address: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Robert Nauta

Print Name: ROBERT NAUTA

Firm: URS

NOTE: See instructions for more information including a list of county codes and well type codes.

Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Page 1 of 1

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number MW-2D	
Boring Drilled By (Firm name and name of crew chief) Dave Cruise, Badger State Drilling		Date Drilling Started <u>08</u> / <u>27</u> / <u>02</u> MM DD YY	Date Drilling Completed <u>08</u> / <u>28</u> / <u>02</u> MM DD YY	Drilling Method 4 1/4" ID HSA	
DNR Facility Well No. _____	WI Unique Well No. _____	Common Well Name MW-2D		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
NW 1/4 of SE 1/4 of Section 30 T 3 N, R 13 E		Long _____		_____ Feet	
County Rock		DNR County Code 5 4	Civil Town / City / or Village City of Janesville		

Sample Number	Length Recovered (N)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			2 3 4 5 6 7 8 9 10 11 12 13 14 15	See log for MW-2. Blind drilled MW-2D to completion depth of 110 ft bgs. Well set at 107.5 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Signature]* Firm **URS Corporation, Madison, WI**

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$4,000 for each violation. Fines not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats

Facility/Project Name Robinson's Dry Cleaners 1819 E. Milwaukee St., Janesville, WI		Local Grid Location of Well ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ <input type="checkbox"/> W.		Well Name MW-2D	
Facility License, Permit or Monitoring Number _____		Grid Origin Location Lat. _____ Long. _____ St. Plane _____ ft. N, _____ ft. E.		Wis. Unique Well Number PE 919	
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Piezometer <input checked="" type="checkbox"/> 12		Distance Well Is From Waste/Source Boundary _____		Date Well Installed <u>0 8 / 2 8 / 0 2</u> m m d d y y	
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No		Section Location of Waste/Source <input checked="" type="checkbox"/> E NW1/4 of SE 1/4 of Sec. 30, T. 3 N, R. 13 <input type="checkbox"/> W		Well Installed By: (Person's Name and Firm) Dave Cruise	
		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Badger State Drilling	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft MSL or <u>2.0</u> ft</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>6.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/> <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/> <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Annular Space Seal <input type="checkbox"/> <input type="checkbox"/> Coarse sand _____ Other <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight. Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 3 2 c. Bentonite slurry (~3/4 of 50lb bag of _____ Other <input checked="" type="checkbox"/> <u>3 1</u> AquaGel and ~15 gal of water)</p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. _____ Ohio 40/60 <input type="checkbox"/> <input type="checkbox"/> b. Volume added <u>50</u> lb</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. _____ Ohio #5 <input type="checkbox"/> <input type="checkbox"/> b. Volume added <u>250</u> lb</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/> <input type="checkbox"/></p> <p>10. Screen material: Schedule 80 PVC <input type="checkbox"/> <input type="checkbox"/> a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> <input type="checkbox"/> b. Manufacturer <u>Monoflex</u> c. Slot size <u>0.010</u> in. d. Slotted length: <u>0.50</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/> <input type="checkbox"/></p>
---	--	--

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
Hollow Stem Auger 4 1
Other

15. Drilling fluid used: Water 0 2 Air 0 1
Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
Describe: _____

17. Source of water (attached analysis):

E. Bentonite seal, top _____ ft MSL or <u>94.5</u> ft	F. Fine sand, top _____ ft MSL or <u>99.5</u> ft	G. Filter pack, top _____ ft MSL or <u>100.5</u> ft	H. Screen joint, top _____ ft MSL or <u>102.5</u> ft	I. Well bottom _____ ft MSL or <u>107.5</u> ft	J. Filter pack, bottom _____ ft MSL or <u>107.5</u> ft	K. Borehole, bottom _____ ft MSL or <u>107.5</u> ft	L. Borehole, diameter <u>8.3</u> in.	M. O.D. well casing <u>2.38</u> in.	N. I.D. well casing <u>1.94</u> in.
---	--	---	--	--	--	---	--------------------------------------	-------------------------------------	-------------------------------------

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Robert J. Janta Firm URS Corporation, Madison, WI

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>Robinson Cleaners</u>	County Name <u>Rock</u>	Well Name <u>MW-2D</u>
Facility License, Permit or Monitoring Number	County Code ---	Wis. Unique Well Number <u>PE919</u>
		DNR Well ID Number ---

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/> 41
surged with bailer and pumped	<input checked="" type="checkbox"/> 61
surged with block and bailed	<input type="checkbox"/> 42
surged with block and pumped	<input type="checkbox"/> 62
surged with block, bailed and pumped	<input type="checkbox"/> 70
compressed air	<input type="checkbox"/> 20
bailed only	<input type="checkbox"/> 10
pumped only	<input type="checkbox"/> 51
pumped slowly	<input checked="" type="checkbox"/> 50
Other _____	<input type="checkbox"/>

3. Time spent developing well 180 min.

4. Depth of well (from top of well casing) _____ ft.

5. Inside diameter of well 1.939 in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well 180.0 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)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>85.90</u> ft.	<u>85.90</u> ft.
Date	b. <u>08/29/02</u> m m d d y y y y	<u>08/29/02</u> m m d d y y y y
Time	c. <u>11:45</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>2:45</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Dark Brown</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>clear</u>
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. Well developed by: Name (first, last) and Firm		
First Name:	Last Name:	
Firm: <u>BADGER STATE DRILLING</u>		

Name and Address of Facility Contact / Owner / Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Robert Nauta

Print Name: ROBERT NAUTA



Firm: URS

NOTE: See instructions for more information including a list of county codes and well type codes.

Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Facility / Project Name Robinson Dry Cleaners – 1819 E. Milwaukee St., Janesville		License/Permit/Monitoring Number _____		Boring Number MW-3	
Boring Drilled By (Firm name and name of crew chief) Dave Cruise, Badger State Drilling		Date Drilling Started <u>08</u> / <u>27</u> / <u>02</u> MM DD YY	Date Drilling Completed <u>08</u> / <u>27</u> / <u>02</u> MM DD YY	Drilling Method 4 1/4" ID HSA	
DNR Facility Well No. _____	WI Unique Well No. _____	Common Well Name MW-3	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter 8.3 inches
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____	Local Grid Location (If Applicable)		
NW 1/4 of SE 1/4 of Section 30 T 3 N, R 13 E		Long _____	<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
County Rock		DNR County Code 5 4	Civil Town / City / or Village City of Janesville		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	19	13, 14	2	2" asphalt on 10" gravel subbase										
			3-6	(From cuttings) Silty CLAY	CL									
			8-10	SAND, fine to medium grained, trace gravel, medium dense, moist, tan to light brown 1" seam of coarse SAND Bottom 5": SAND, fine to coarse grained, trace gravel, medium dense, moist, light brown	SW			3.6	24					

I hereby certify that the information on this form is true and correct to the best of my knowledge.



Signature *[Handwritten Signature]*

Firm **URS Corporation, Madison, WI**

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$4,000 for each violation. Fines not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats



Boring Number MW-3

Page 2 of 5

Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (N)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
2	16	10, 11 12, 14	16 17 18 19 20 21 22 23 24 25 26 27	SAND and GRAVEL, fine to coarse grained sand, little gravel, medium dense, moist, light brown	SW			4.2	23					
3	16	8, 10 14, 13	28 29 30 31 32 33 34 35 36 37	~28.5 ft: SAND, fine to coarse grained, trace to little gravel, medium dense, moist, light brown ~28.75 ft: SAND, very fine to coarse grained sand, trace gravel, moist, tan ~29.25 ft: SAND, fine to coarse grained, trace to little gravel, medium dense, moist, light brown	SW			9.8 11.8	24					




Boring Number MW-3

Page 3 of 5

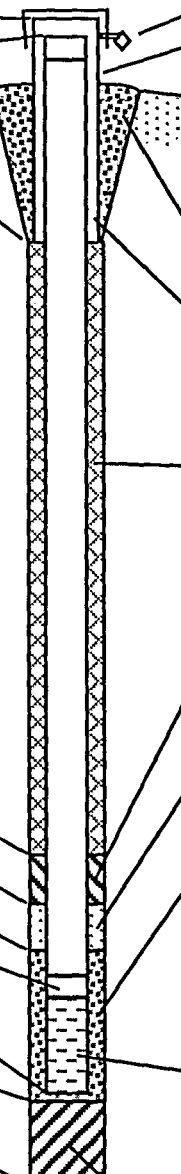
Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (N)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
4	19	7, 9 11, 15	38 39 40 41 42 43 44 45 46 47 48	SAND, very fine to medium grained, trace gravel, medium dense, moist, tan to light brown	SW			16.4	20					
5	19	6, 6 8, 11	49 50 51 52 53 54 55 56 57 58 59	SAND, very fine to medium grained, trace gravel, medium dense, moist, tan to light brown	SW			14.6	14					

Boring Number MW-3

Page 4 of 5

Sample		Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
Number	Length Recovered (IN)								Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
6	16	8, 14 50/4,	60 61 62 63 64 65 66 67 68	SAND, fine to medium grained, trace gravel, very dense, moist, tan to light brown	SW			15	60+					
7	18	13, 20 29, 32	69 70 71 72 73 74 75 76 77 78	~68.5 ft: SAND, fine to coarse grained, trace gravel, dense, moist, light brown ~69.25 ft: SAND, fine to medium grained, moist, tan	SW			16.8	49					
8	19	12, 15 21, 25	79 80 81	SAND, fine to coarse grained, trace gravel, dense, moist, light brown	SW			12.6	36					

Facility/Project Name Robinson's Dry Cleaners 1819 E. Milwaukee St., Janesville, WI	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ <input type="checkbox"/> S. _____ <input type="checkbox"/> W.	Well Name <p style="text-align: center; font-size: 1.2em;">MW-3</p>
Facility License, Permit or Monitoring Number _____	Grid Origin Location Lat. _____ Long. _____ St. Plane _____ ft. N, _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____ PP. 650 _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <input checked="" type="checkbox"/> E NW1/4 of SE 1/4 of Sec. 30, T. 3 N, R. 30 <input type="checkbox"/> W	Date Well Installed <p style="text-align: center;"> 0 8 / 2 7 / 0 2 m m d d y y </p>
Distance Well Is From Waste/Source Boundary _____	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) <p style="text-align: center;">Dave Cruise</p> <p style="text-align: center;">Badger State Drilling</p>
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No		

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft MSL or <u>2.0</u> ft</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> 12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input checked="" type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/> </div> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/> _____</p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____</p> <p>17. Source of water (attached analysis): _____</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>9.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Flush Mount <input type="checkbox"/> Other <input type="checkbox"/> _____ d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/> _____</p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Annular Space Seal <input type="checkbox"/> _____ Coarse sand <input checked="" type="checkbox"/> Other <input type="checkbox"/> _____</p> <p>5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input checked="" type="checkbox"/> 3 2 c. <u>1500</u> lb chips plus <u>50</u> gal bucket of pellets Other <input type="checkbox"/> _____</p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>Ohio 40/60</u> _____ b. Volume added <u>50</u> lb</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>Ohio #5</u> _____ b. Volume added <u>200</u> lb</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/> _____</p> <p>10. Screen material: <u>Schedule 40 PVC</u> _____ a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> _____ b. Manufacturer <u>Monollex</u> c. Slot size <u>0.010</u> in. d. Slotted length: <u>1.0</u> ft.</p> <p>11. Backfill material (below filler pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/> _____</p>
<p>E. Bentonite seal, top _____ ft MSL or <u>2.0</u> ft</p> <p>F. Fine sand, top _____ ft MSL or <u>77.0</u> ft</p> <p>G. Filter pack, top _____ ft MSL or <u>78.0</u> ft</p> <p>H. Screen joint, top _____ ft MSL or <u>80.0</u> ft</p> <p>I. Well bottom _____ ft MSL or <u>90.0</u> ft</p> <p>J. Filter pack, bottom _____ ft MSL or <u>90.0</u> ft</p> <p>K. Borehole, bottom _____ ft MSL or <u>90.0</u> ft</p> <p>L. Borehole, diameter <u>8.3</u> in.</p> <p>M. O.D. well casing <u>2.38</u> in.</p> <p>N. I.D. well casing <u>2.05</u> in.</p>		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Robert J. Pate* Firm URS Corporation, Madison, WI

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 41, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: shaded areas are for DNR use only. See instruction for more information including where the completed form should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>ROBINSON CLEANERS</u>	County Name <u>ROCK</u>	Well Name <u>MW-3</u>
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number <u>PF650</u>
		DNR Well ID 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 104 min.

4. Depth of well (from top of well casing) 90 ft.

5. Inside diameter of well 2067 in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well 104.0 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)

17. Additional comments on development:

11. Depth to Water Before Development After Development

(from top of well casing) a. 81.90 ft. 81.90 ft.

Date 08/29/2002 08/29/02
m m d d y y y y m m d d y y y y

Time c. 8:00 a.m. 9:44 a.m.
 p.m. p.m.

12. Sediment in well bottom 0.0 inches 0.0 inches

13. Water clarity Clear 10 Clear 20
Turbid 15 Turbid 25
(Describe) Dark (Describe) Clear
BROWN

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: _____ Last Name: _____

Firm: BADGER STATE DRILLING

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Address: _____

City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.

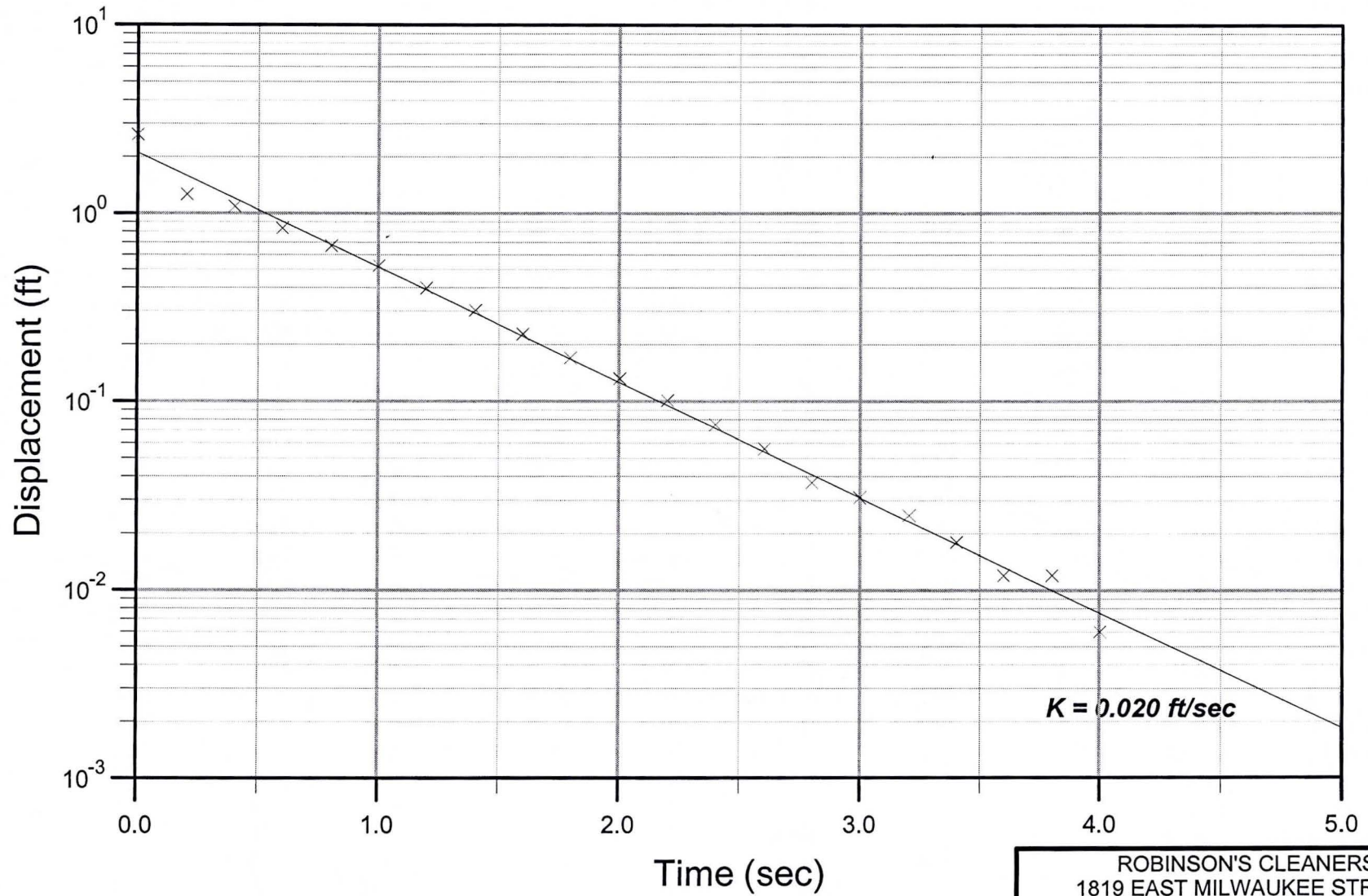
Signature: Robert Nauta

Print Name: ROBERT NAUTA

Firm: UBS

NOTE: See instructions for more information including a list of county codes and well type codes.

Bouwer & Rice



ROBINSON'S CLEANERS
1819 EAST MILWAUKEE STREET
JANESVILLE, WISCONSIN

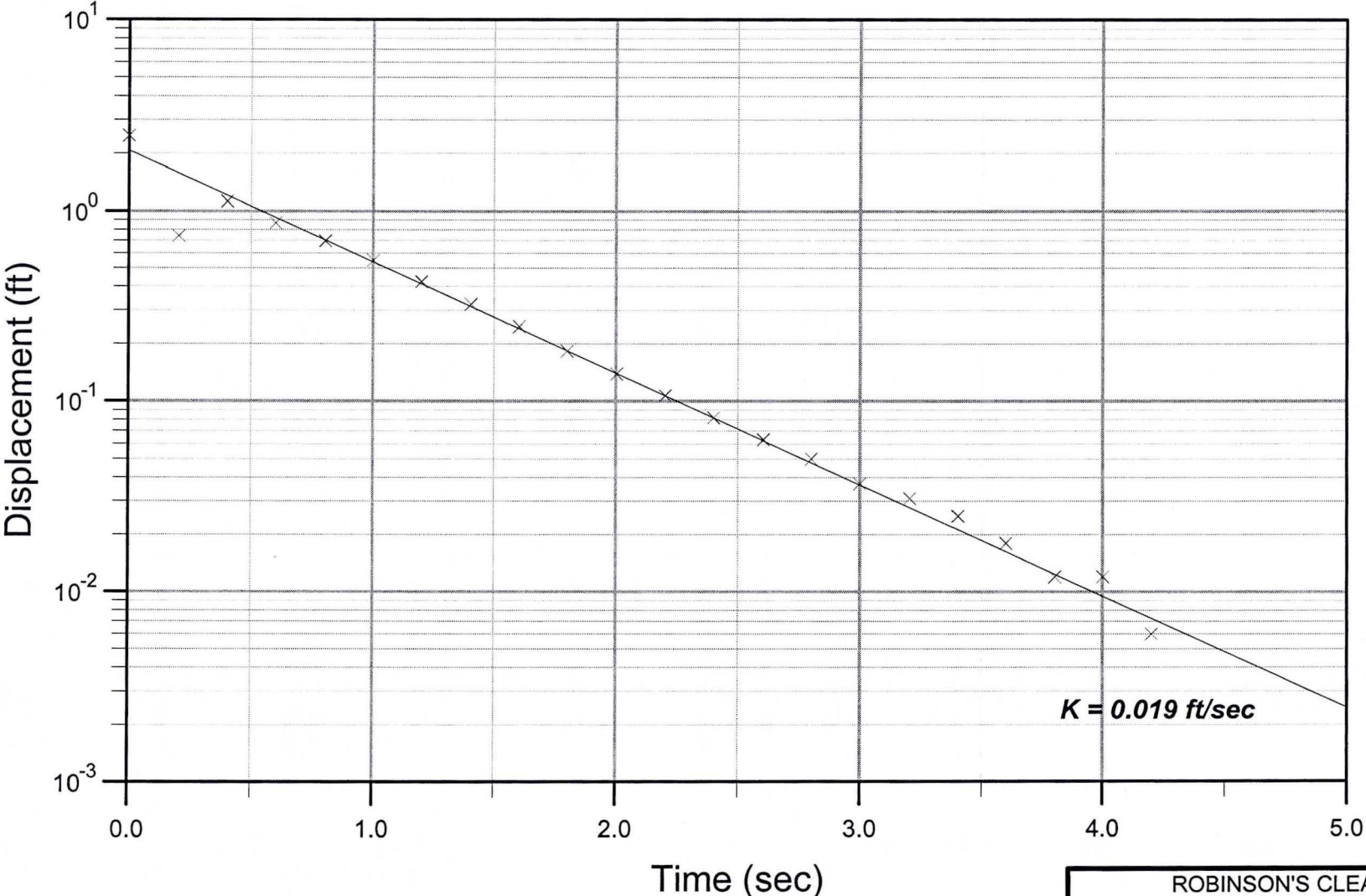
FIGURE B-1
SLUG TEST RESULTS
MW-1, RUN 1

URS

DATE: OCTOBER 2002

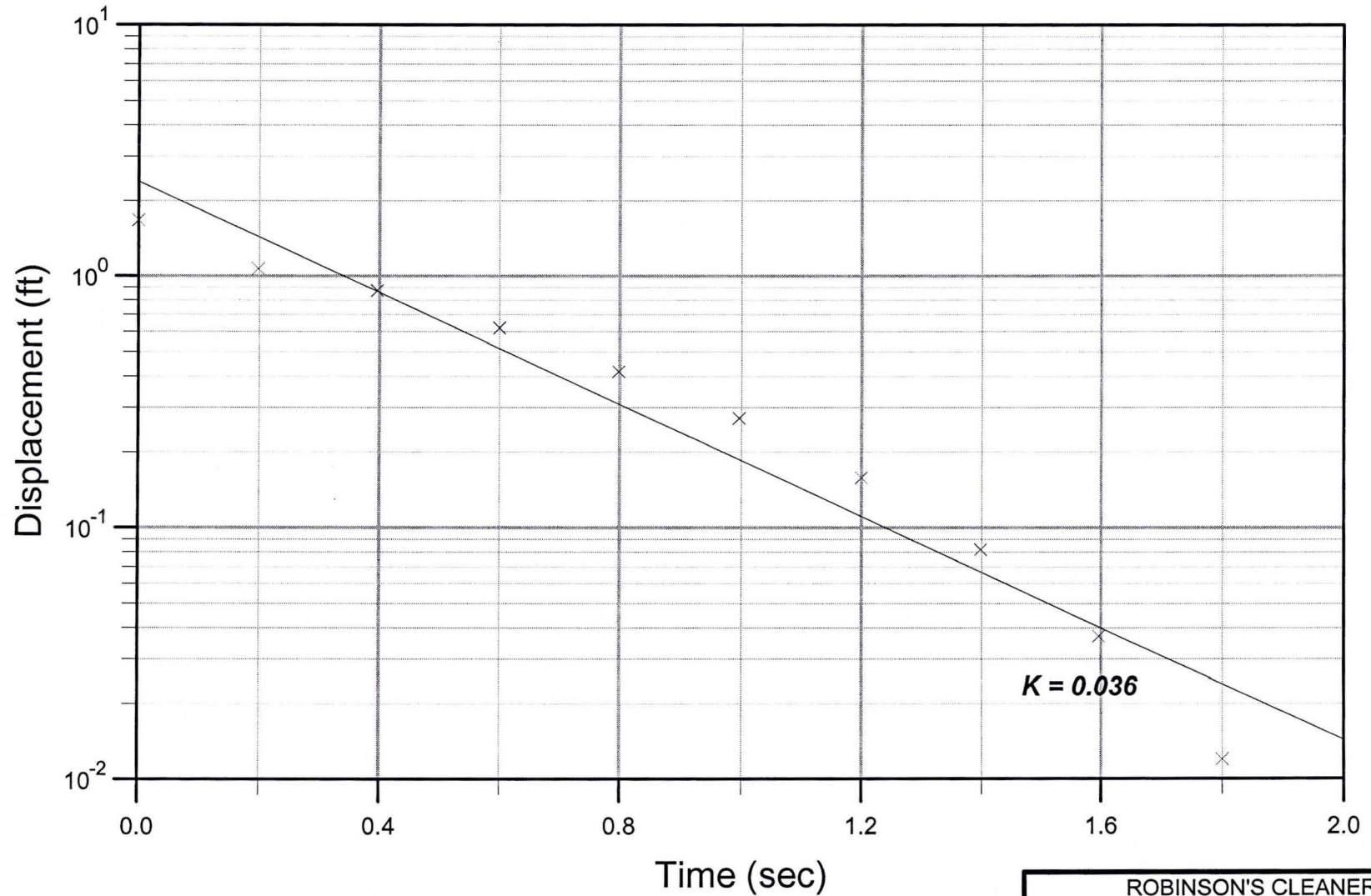
PROJECT No.: 51279-002

Bouwer & Rice



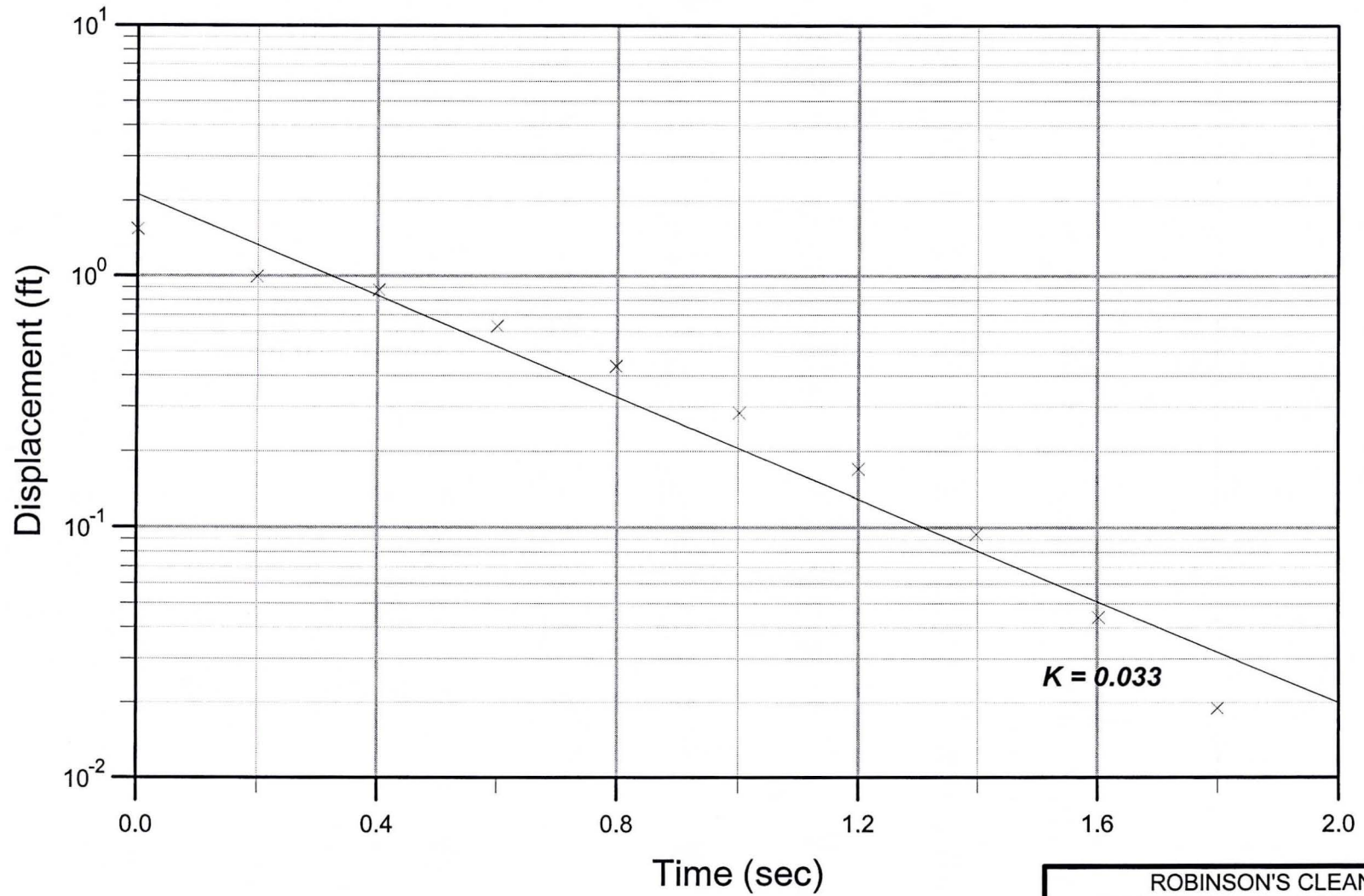
ROBINSON'S CLEANERS 1819 EAST MILWAUKEE STREET JANESVILLE, WISCONSIN	
FIGURE B-2 SLUG TEST RESULTS MW-1, RUN 2	
URS	DATE: OCTOBER 2002
	PROJECT No.: 51279-002

Bouwer & Rice



ROBINSON'S CLEANERS 1819 EAST MILWAUKEE STREET JANESVILLE, WISCONSIN	
FIGURE B-3 SLUG TEST RESULTS MW-2, RUN 1	
URS	DATE: OCTOBER 2002
	PROJECT No.: 51279-002

Bouwer & Rice



ROBINSON'S CLEANERS
1819 EAST MILWAUKEE STREET
JANESVILLE, WISCONSIN

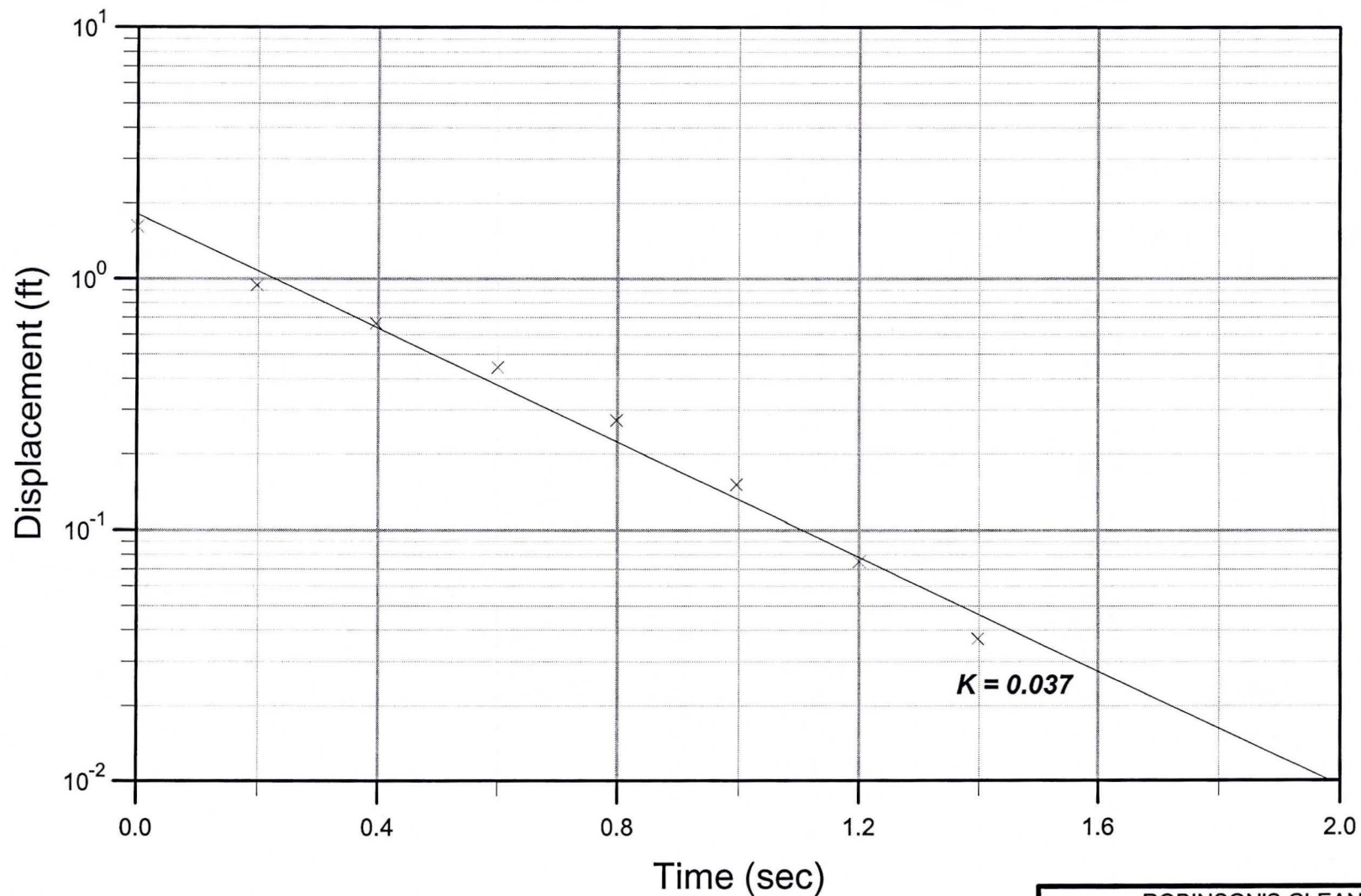
FIGURE B-4
SLUG TEST RESULTS
MW-2, RUN 2

URS

DATE: OCTOBER 2002

PROJECT No.: 51279-002

Bouwer & Rice



ROBINSON'S CLEANERS
1819 EAST MILWAUKEE STREET
JANESVILLE, WISCONSIN

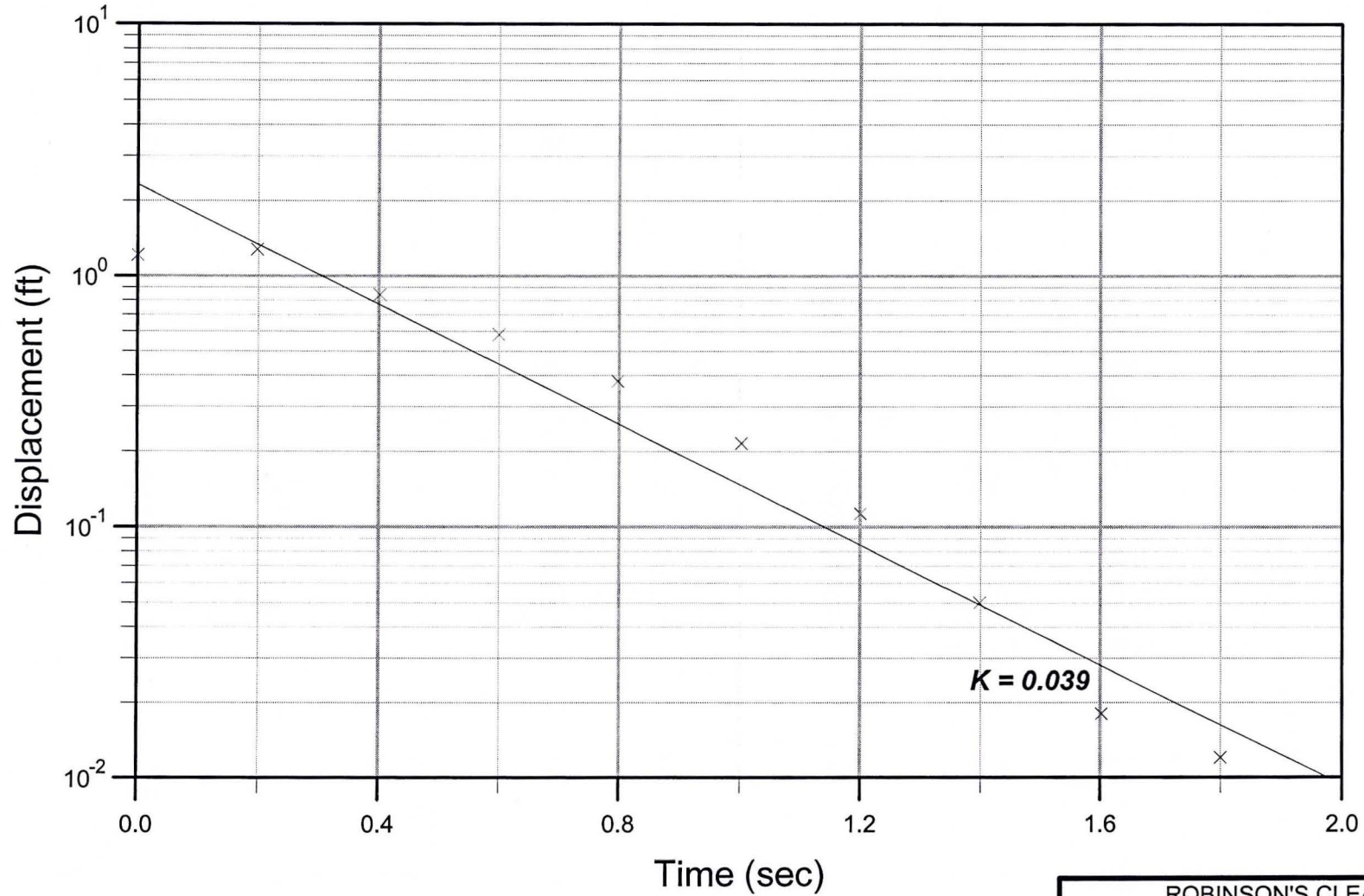
FIGURE B-5
SLUG TEST RESULTS
MW-3, RUN 1

URS

DATE: OCTOBER 2002

PROJECT No.: 51279-002

Bouwer & Rice



ROBINSON'S CLEANERS
1819 EAST MILWAUKEE STREET
JANESVILLE, WISCONSIN

FIGURE B-6
SLUG TEST RESULTS
MW-3, RUN 2

URS

DATE: OCTOBER 2002

PROJECT No.: 51279-002

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

Printed: 07/24/02 Code: S Page 1 of 2

Client: URS Corporation (Madison)
 Attn: Bob Nauta
 5250 East Terrace Drive
 Madison, WI 53718

NLS Project: 67705

NLS Customer: 91207

Project: Robinson Cleaners 51279-002

Soil, Robin-2-8 NLS ID: 286354

Ref. Line COC 103805 Soil, Robin-2 8' Matrix: SO
 Collected: 07/12/02 08:25 Received: 07/16/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	78.8	%	1	0.10*		07/17/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			07/23/02	SW846 8260	721026460

Soil, Robin-8-12 NLS ID: 286355

Ref. Line COC 103805 Soil, Robin-8-12 Matrix: SO
 Collected: 07/12/02 12:00 Received: 07/16/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	96.6	%	1	0.10*		07/17/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			07/22/02	SW846 8260	721026460

Soil, Robin-3-2 NLS ID: 286356

Ref. Line COC 103805 Soil, Robin-3-2 Matrix: SO
 Collected: 07/12/02 12:15 Received: 07/16/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	78.2	%	1	0.10*		07/17/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			07/23/02	SW846 8260	721026460

Soil, Robin-4-15 NLS ID: 286357

Ref. Line COC 103805 Soil, Robin-4-15 Matrix: SO
 Collected: 07/12/02 12:30 Received: 07/16/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	96.8	%	1	0.10*		07/17/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			07/23/02	SW846 8260	721026460

Soil, Robin-6-4 NLS ID: 286358

Ref. Line COC 103805 Soil, Robin-6-4 Matrix: SO
 Collected: 07/12/02 12:45 Received: 07/16/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	79.9	%	1	0.10*		07/17/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			07/22/02	SW846 8260	721026460

Soil, Robin-9-15 NLS ID: 286359

Ref. Line COC 103805 Soil, Robin-9-15 Matrix: SO
 Collected: 07/12/02 13:00 Received: 07/16/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	96.2	%	1	0.10*		07/17/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			07/22/02	SW846 8260	721026460

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

Printed: 07/24/02 Code: S Page 2 of 2

Client: URS Corporation (Madison)
 Attn: Bob Nauta
 5250 East Terrace Drive
 Madison, WI 53718

NLS Project: 67705

NLS Customer: 91207

Project: Robinson Cleaners 51279-002

Soil, Robin-10-8 NLS ID: 286360

Ref. Line COC 103805 Soil, Robin-10-8 Matrix: SO
 Collected: 07/12/02 13:15 Received: 07/16/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	78.4	%	1	0.10*		07/17/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			07/22/02	SW846 8260	721026460

Soil, Robin-11-15 NLS ID: 286361

Ref. Line COC 103805 Soil, Robin-11-15 Matrix: SO
 Collected: 07/12/02 13:30 Received: 07/16/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	97.2	%	1	0.10*		07/17/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			07/22/02	SW846 8260	721026460

Soil, Robin-12-15 NLS ID: 286362

Ref. Line COC 103805 Soil, Robin-12-15 Matrix: SO
 Collected: 07/12/02 13:45 Received: 07/16/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	97.3	%	1	0.10*		07/17/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			07/22/02	SW846 8260	721026460

MeOH Blank NLS ID: 286363

Ref. Line COC 103805 MeOH Blank Matrix: TB
 Collected: 07/12/02 00:00 Received: 07/16/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (solid) by EPA 8260	see attached		-			07/22/02	SW846 8260	721026460

Values in brackets represent results greater than the LOD but less than or equal to the LOQ and are within a region of "Less-Certain Quantitation". Results greater than 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

Reviewed by: Jerry R. Boeke Authorized by: R. T. Krueger, President

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 1 of 20

Customer: URS Corporation (Madison) NLS Project: 67705
 Project Description: Robinson Cleaners
 Project Title: 51279-002 Template: SATS

Sample: 286354 Soil, Robin-2 8' Collected: 07/12/02 Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	5000	ug/kg	2.5	40	130
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	[73]	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	750	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	[30]	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Customer: URS Corporation (Madison) NLS Project: 67705
 Project Description: Robinson Cleaners
 Project Title: 51279-002 Template: SATS

Sample: 286354 Soil, Robin-2 8' Collected: 07/12/02 Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	101%				
Toluene-d8 (SURR**)	113%				
1-Bromo-4-Fluorobenzene (SURR**)	105%				

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



ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 3 of 20

Customer: URS Corporation (Madison) NLS Project: 67705
 Project Description: Robinson Cleaners
 Project Title: 51279-002 Template: SATS

Sample: 286355 Soil, Robin-8-12 Collected: 07/12/02 Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	ND	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Customer: URS Corporation (Madison) NLS Project: 67705
 Project Description: Robinson Cleaners
 Project Title: 51279-002 Template: SATS

Sample: 286355 Soil, Robin-8-12 Collected: 07/12/02 Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	103%				
Toluene-d8 (SURR**)	114%				
1-Bromo-4-Fluorobenzene (SURR**)	98%				

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



ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 5 of 20

Customer: URS Corporation (Madison) NLS Project: 67705
 Project Description: Robinson Cleaners
 Project Title: 51279-002 Template: SATS

Sample: 286356 Soil, Robin-3-2 Collected: 07/12/02 Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	450	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	30000	ug/kg	20	440	1500
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	760	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Customer: URS Corporation (Madison) NLS Project: 67705
 Project Description: Robinson Cleaners
 Project Title: 51279-002 Template: SATS

Sample: 286356 Soil, Robin-3-2 Collected: 07/12/02 Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	106%				
Toluene-d8 (SURR**)	117%				
1-Bromo-4-Fluorobenzene (SURR**)	113%				

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



ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 7 of 20

Customer: URS Corporation (Madison)
 Project Description: Robinson Cleaners
 Project Title: 51279-002

NLS Project: 67705
 Template: SATS

Sample: 286357 Soil, Robin-4-15

Collected: 07/12/02

Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	[41]	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 8 of 20

Customer: URS Corporation (Madison)

NLS Project: 67705

Project Description: Robinson Cleaners

Project Title: 51279-002

Template: SATS

Sample: 286357 Soil, Robin-4-15

Collected: 07/12/02

Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	105%				
Toluene-d8 (SURR**)	117%				
1-Bromo-4-Fluorobenzene (SURR**)	110%				

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

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 9 of 20

Customer: URS Corporation (Madison)
 Project Description: Robinson Cleaners
 Project Title: 51279-002

NLS Project: 67705
 Template: SATS

Sample: 286358 Soil, Robin-6-4

Collected: 07/12/02

Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	180	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	240	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Customer: URS Corporation (Madison) NLS Project: 67705
Project Description: Robinson Cleaners
Project Title: 51279-002 Template: SATS

Sample: 286358 Soil, Robin-6-4 Collected: 07/12/02 Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	97%				
Toluene-d8 (SURR**)	109%				
1-Bromo-4-Fluorobenzene (SURR**)	92%				

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



ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 11 of 20

Customer: URS Corporation (Madison) NLS Project: 67705
 Project Description: Robinson Cleaners
 Project Title: 51279-002 Template: SATS

Sample: 286359 Soil, Robin-9-15

Collected: 07/12/02

Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	[26]	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 12 of 20

Customer: URS Corporation (Madison) NLS Project: 67705
Project Description: Robinson Cleaners
Project Title: 51279-002 Template: SATS

Sample: 286359 Soil, Robin-9-15

Collected: 07/12/02

Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	95%				
Toluene-d8 (SURR**)	114%				
1-Bromo-4-Fluorobenzene (SURR**)	102%				

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

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 13 of 20

Customer: URS Corporation (Madison)
 Project Description: Robinson Cleaners
 Project Title: 51279-002

NLS Project: 67705
 Template: SATS

Sample: 286360 Soil, Robin-10-8

Collected: 07/12/02

Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	ND	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 14 of 20

Customer: URS Corporation (Madison) NLS Project: 67705
Project Description: Robinson Cleaners
Project Title: 51279-002 Template: SATS

Sample: 286360 Soil, Robin-10-8

Collected: 07/12/02

Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	100%				
Toluene-d8 (SURR**)	110%				
1-Bromo-4-Fluorobenzene (SURR**)	110%				

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

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 15 of 20

Customer: URS Corporation (Madison) NLS Project: 67705
 Project Description: Robinson Cleaners
 Project Title: 51279-002 Template: SATS

Sample: 286361 Soil, Robin-11-15

Collected: 07/12/02

Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	ND	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Customer: URS Corporation (Madison) NLS Project: 67705
 Project Description: Robinson Cleaners
 Project Title: 51279-002 Template: SATS

Sample: 286361 Soil, Robin-11-15 Collected: 07/12/02 Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	97%				
Toluene-d8 (SURR**)	111%				
1-Bromo-4-Fluorobenzene (SURR**)	108%				

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



ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 17 of 20

Customer: URS Corporation (Madison)

NLS Project: 67705

Project Description: Robnson Cleaners

Project Title: 51279-002

Template: SATS

Sample: 286362 Soil, Robin-12-15

Collected: 07/12/02

Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	ND	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 18 of 20

Customer: URS Corporation (Madison) NLS Project: 67705
Project Description: Robinson Cleaners
Project Title: 51279-002 Template: SATS

Sample: 286362 Soil, Robin-12-15 Collected: 07/12/02 Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	106%				
Toluene-d8 (SURR**)	103%				
1-Bromo-4-Fluorobenzene (SURR**)	111%				

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

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 19 of 20

Customer: URS Corporation (Madison)
 Project Description: Robinson Cleaners
 Project Title: 51279-002

NLS Project: 67705
 Template: SATS

Sample: 286363 MeOH Blank

Collected: 07/12/02

Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	ND	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

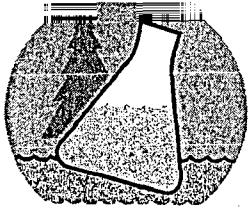
Page 20 of 20

Customer: URS Corporation (Madison) NLS Project: 67705
Project Description: Robinson Cleaners
Project Title: 51279-002 Template: SATS

Sample: 286363 MeOH Blank Collected: 07/12/02 Analyzed: 07/22/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	97%				
Toluene-d8 (SURR**)	108%				
1-Bromo-4-Fluorobenzene (SURR**)	99%				

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



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. 103805

**SAMPLE COLLECTION AND
CHAIN OF CUSTODY RECORD**
Underground Storage Tank Projects

Wisconsin Lab Cert. No. 721026460

RETURN THIS FORM WITH SAMPLES.

ENTER OTHER PARAMETERS-CHECK BELOW IF FIELD FILTERED

CLIENT URS	PROJECT TITLE ROBINSON CLEANERS	
ADDRESS 5250 E. TERRACE DR. STE I	PROJECT NO. 51279-002	QUOTATION NO. 101781
CITY MADISON	STATE WI	ZIP 53710
	CONTACT BOB NAUTA	PHONE 608-244-5656

VOC														
P.VOC														
DRO														
PAH														

	SAMPLE ID	COLLECTION		SAMPLE TYPE	GRO	PVOC	DRO	VOC 902+	PAH
		DATE	TIME						
286354	Robin-2 (8')	7/12	0825	SOIL				X	
286355	Robin-8-12		1200						
286356	Robin-3-2		1215						
286357	Robin-4-15		1230						
286358	Robin-6-4		1245						
286359	Robin-9-15		1300						
286360	Robin-10-8		1315						
286361	Robin-11-15^{BRN}		1330						
286362	Robin-12-15		1345						
286363	Trip Blank								

COLLECTED BY (signature) <i>[Signature]</i>	CUSTODY SEAL NO. (IF ANY)	DATE/TIME	REPORT TO
RELINQUISHED BY (signature) <i>[Signature]</i>	RECEIVED BY (signature)	DATE/TIME 7/15/02 / 1300	
RELINQUISHED BY (signature)	RECEIVED BY (signature)	DATE/TIME	
DISPATCHED BY (signature)	METHOD OF TRANSPORT	DATE/TIME	
RECEIVED AT NLS BY (signature) <i>[Signature]</i>	DATE/TIME 7/16/02 13:15	CONDITION <i>[Signature]</i>	TEMP
SEAL INTACT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	SEAL #	REMARKS & OTHER INFORMATION CALL BOB NAUTA FOR ANALYTICAL METHOD	
SAMPLE TYPE GW=groundwater, WW=waste water, DW=drinking water, S=soil <i>[Signature]</i>			

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

ORIGINAL COPY

34-73

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

Printed: 09/10/02 Code: S Page 1 of 2

Client: URS Corporation (Madison)
 Attn: Bob Nauta
 5250 East Terrace Drive
 Madison, WI 53718

NLS Project: 68691

Project: Robinson Cleaners

NLS Customer: 91207

Soil, B-1 30' NLS ID: 290047

Ref. Line 1 COC 57056 Soil, B-1 30' Matrix: SO
 Collected: 08/23/02 09:50 Received: 08/30/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	96.6	%	1	0.10*		09/03/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			09/06/02	SW846 8260	721026460

Soil, B-1 70' NLS ID: 290048

Ref. Line 2 COC 57056 Soil, B-1 70' Matrix: SO
 Collected: 08/23/02 11:30 Received: 08/30/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	95.9	%	1	0.10*		09/03/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			09/06/02	SW846 8260	721026460

Soil, B-2 30' NLS ID: 290049

Ref. Line 3 COC 57056 Soil, B-2 30' Matrix: SO
 Collected: 08/26/02 14:00 Received: 08/30/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	96.8	%	1	0.10*		09/03/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			09/06/02	SW846 8260	721026460

Soil, B-3 30' NLS ID: 290050

Ref. Line 4 COC 57056 Soil, B-3 30' Matrix: SO
 Collected: 08/21/02 14:10 Received: 08/30/02

Notes: Noncompliance: Sample(s) received beyond EPA holding time for: % Solids.

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	96.0	%	1	0.10*		09/03/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			09/09/02	SW846 8260	721026460

Soil, B-4 10' NLS ID: 290051

Ref. Line 5 COC 57056 Soil, B-4 10' Matrix: SO
 Collected: 08/21/02 11:30 Received: 08/30/02

Notes: Noncompliance: Sample(s) received beyond EPA holding time for: % Solids.

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	94.7	%	1	0.10*		09/03/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			09/09/02	SW846 8260	721026460

Soil, B-4 40' NLS ID: 290052

Ref. Line 6 COC 57056 Soil, B-4 40' Matrix: SO
 Collected: 08/21/02 11:55 Received: 08/30/02

Notes: Noncompliance: Sample(s) received beyond EPA holding time for: % Solids.

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	97.3	%	1	0.10*		09/03/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			09/09/02	SW846 8260	721026460

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

Printed: 09/10/02 Code: S Page 2 of 2

Client: URS Corporation (Madison)
 Attn: Bob Nauta
 5250 East Terrace Drive
 Madison, WI 53718

NLS Project: 68691

Project: Robinson Cleaners

NLS Customer: 91207

Soil, B-5 10' NLS ID: 290053

Ref. Line 7 COC 57056 Soil, B-5 10' Matrix: SO

Collected: 08/21/02 09:10 Received: 08/30/02

Notes: Noncompliance: Sample(s) received beyond EPA holding time for: % Solids.

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	96.4	%	1	0.10*		09/03/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			09/09/02	SW846 8260	721026460

Soil, B-5 40' NLS ID: 290054

Ref. Line 8 COC 57056 Soil, B-5 40' Matrix: SO

Collected: 08/21/02 09:35 Received: 08/30/02

Notes: Noncompliance: Sample(s) received beyond EPA holding time for: % Solids.

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	97.2	%	1	0.10*		09/03/02	ASTM D2216	721026460
VOCs (solid) by EPA 8260	see attached		-			09/09/02	SW846 8260	721026460

MeOH Blank NLS ID: 290055

Ref. Line COC 57056 MeOH Blank Matrix: TB

Collected: 08/21/02 00:00 Received: 08/30/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (solid) by EPA 8260	see attached		-			09/09/02	SW846 8260	721026460

Values in brackets represent results greater than the LOD but less than or equal to the LOQ and are within a region of "Less-Certain Quantitation". Results greater than 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

Reviewed by: Jerry R. Boek Authorized by: R. T. Krueger
 President

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 1 of 18

Customer: URS Corporation (Madison) NLS Project: 68691

Project Description: Robinson Cleaners

Project Title: Template: SATS

Sample: 290047 Soil, B-1 30'

Collected: 08/23/02

Analyzed: 09/06/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	[27]	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 2 of 18

Customer: URS Corporation (Madison) NLS Project: 68691

Project Description: Robinson Cleaners

Project Title: Template: SATS

Sample: 290047 Soil, B-1 30'

Collected: 08/23/02

Analyzed: 09/06/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	96%				
Toluene-d8 (SURR**)	101%				
1-Bromo-4-Fluorobenzene (SURR**)	88%				

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

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 3 of 18

Customer: URS Corporation (Madison) NLS Project: 68691
 Project Description: Robinson Cleaners
 Project Title: Template: SATS

Sample: 290048 Soil, B-1 70'

Collected: 08/23/02

Analyzed: 09/06/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	ND	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Customer: URS Corporation (Madison) NLS Project: 68691
 Project Description: Robinson Cleaners
 Project Title: Template: SATS

Sample: 290048 Soil, B-1 70' Collected: 08/23/02 Analyzed: 09/06/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	103%				
Toluene-d8 (SURR**)	107%				
1-Bromo-4-Fluorobenzene (SURR**)	93%				

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

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 5 of 18

Customer: URS Corporation (Madison) NLS Project: 68691

Project Description: Robinson Cleaners

Project Title:

Template: SATS

Sample: 290049 Soil, B-2 30'

Collected: 08/26/02

Analyzed: 09/06/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	[54]	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Customer: URS Corporation (Madison) NLS Project: 68691

Project Description: Robinson Cleaners

Project Title: Template: SATS

Sample: 290049 Soil, B-2 30'

Collected: 08/26/02

Analyzed: 09/06/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	100%				
Toluene-d8 (SURR**)	97%				
1-Bromo-4-Fluorobenzene (SURR**)	83%				

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



ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 7 of 18

Customer: URS Corporation (Madison) NLS Project: 68691

Project Description: Robinson Cleaners

Project Title: Template: SATS

Sample: 290050 Soil, B-3 30'

Collected: 08/21/02

Analyzed: 09/09/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	[36]	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 8 of 18

Customer: URS Corporation (Madison) NLS Project: 68691

Project Description: Robinson Cleaners

Project Title:

Template: SATS

Sample: 290050 Soil, B-3 30'

Collected: 08/21/02

Analyzed: 09/09/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	74	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	97%				
Toluene-d8 (SURR**)	106%				
1-Bromo-4-Fluorobenzene (SURR**)	108%				

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

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 9 of 18

Customer: URS Corporation (Madison) NLS Project: 68691

Project Description: Robinson Cleaners

Project Title:

Template: SATS

Sample: 290051 Soil, B-4 10'

Collected: 08/21/02

Analyzed: 09/09/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	[39]	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Customer: URS Corporation (Madison) NLS Project: 68691
Project Description: Robinson Cleaners
Project Title: Template: SATS

Sample: 290051 Soil, B-4 10'

Collected: 08/21/02

Analyzed: 09/09/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	60	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	98%				
Toluene-d8 (SURR**)	108%				
1-Bromo-4-Fluorobenzene (SURR**)	104%				

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



ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 11 of 18

Customer: URS Corporation (Madison) NLS Project: 68691

Project Description: Robinson Cleaners

Project Title: Template: SATS

Sample: 290052 Soil, B-4 40'

Collected: 08/21/02

Analyzed: 09/09/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	[26]	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 12 of 18

Customer: URS Corporation (Madison) NLS Project: 68691

Project Description: Robinson Cleaners

Project Title: Template: SATS

Sample: 290052 Soil, B-4 40'

Collected: 08/21/02

Analyzed: 09/09/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	140	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	103%				
Toluene-d8 (SURR**)	111%				
1-Bromo-4-Fluorobenzene (SURR**)	108%				

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

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 13 of 18

Customer: URS Corporation (Madison) NLS Project: 68691

Project Description: Robinson Cleaners

Project Title: Template: SATS

Sample: 290053 Soil, B-5 10'

Collected: 08/21/02

Analyzed: 09/09/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	[65]	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Customer: URS Corporation (Madison) NLS Project: 68691
 Project Description: Robinson Cleaners
 Project Title: Template: SATS

Sample: 290053 Soil, B-5 10' Collected: 08/21/02 Analyzed: 09/09/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	87	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	105%				
Toluene-d8 (SURR**)	111%				
1-Bromo-4-Fluorobenzene (SURR**)	105%				

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

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 15 of 18

Customer: URS Corporation (Madison) NLS Project: 68691

Project Description: Robinson Cleaners

Project Title: Template: SATS

Sample: 290054 Soil, B-5 40'

Collected: 08/21/02

Analyzed: 09/09/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	[36]	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 16 of 18

Customer: URS Corporation (Madison) NLS Project: 68691

Project Description: Robinson Cleaners

Project Title: Template: SATS

Sample: 290054 Soil, B-5 40'

Collected: 08/21/02

Analyzed: 09/09/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	110	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	100%				
Toluene-d8 (SURR**)	105%				
1-Bromo-4-Fluorobenzene (SURR**)	102%				

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

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Page 17 of 18

Customer: URS Corporation (Madison) NLS Project: 68691

Project Description: Robinson Cleaners

Project Title:

Template: SATS

Sample: 290055

MeOH Blank

Collected: 08/21/02

Analyzed: 09/09/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Benzene	ND	ug/kg	1	15	50
Bromobenzene	ND	ug/kg	1	17	54
Bromochloromethane	ND	ug/kg	1	22	73
Bromodichloromethane	ND	ug/kg	1	15	52
Bromoform	ND	ug/kg	1	19	68
Bromomethane	ND	ug/kg	1	200	200
n-Butylbenzene	ND	ug/kg	1	22	72
sec-Butylbenzene	ND	ug/kg	1	21	68
tert-Butylbenzene	ND	ug/kg	1	12	39
Carbon Tetrachloride	ND	ug/kg	1	21	72
Chlorobenzene	ND	ug/kg	1	11	35
Chloroethane	ND	ug/kg	1	200	200
Chloroform	ND	ug/kg	1	20	68
Chloromethane	ND	ug/kg	1	14	48
2-Chlorotoluene	ND	ug/kg	1	11	37
4-Chlorotoluene	ND	ug/kg	1	23	78
Dibromochloromethane	ND	ug/kg	1	18	64
1,2-Dibromo-3-Chloropropane	ND	ug/kg	1	24	79
1,2-Dibromoethane	ND	ug/kg	1	19	65
Dibromomethane	ND	ug/kg	1	21	71
1,2-Dichlorobenzene	ND	ug/kg	1	19	63
1,3-Dichlorobenzene	ND	ug/kg	1	14	50
1,4-Dichlorobenzene	ND	ug/kg	1	17	58
Dichlorodifluoromethane	ND	ug/kg	1	14	48
1,1-Dichloroethane	ND	ug/kg	1	19	62
1,2-Dichloroethane	ND	ug/kg	1	21	66
1,1-Dichloroethene	ND	ug/kg	1	21	71
cis-1,2-Dichloroethene	ND	ug/kg	1	16	53
trans-1,2-Dichloroethene	ND	ug/kg	1	24	80
1,2-Dichloropropane	ND	ug/kg	1	12	40
1,3-Dichloropropane	ND	ug/kg	1	15	50
2,2-Dichloropropane	ND	ug/kg	1	19	62
1,1-Dichloropropene	ND	ug/kg	1	14	49
cis-1,3-Dichloropropene	ND	ug/kg	1	15	51
trans-1,3-Dichloropropene	ND	ug/kg	1	15	51
Ethylbenzene	ND	ug/kg	1	20	68
Hexachlorobutadiene	ND	ug/kg	1	23	76
Isopropylbenzene	ND	ug/kg	1	20	70
p-Isopropyltoluene	ND	ug/kg	1	21	71
Methylene chloride	ND	ug/kg	1	14	46
Naphthalene	ND	ug/kg	1	25	79
n-Propylbenzene	ND	ug/kg	1	15	55
ortho-Xylene	ND	ug/kg	1	23	80
Styrene	ND	ug/kg	1	19	66
1,1,1,2-Tetrachloroethane	ND	ug/kg	1	15	53
1,1,2,2-Tetrachloroethane	ND	ug/kg	1	11	35
Tetrachloroethene	ND	ug/kg	1	22	77
Toluene	ND	ug/kg	1	21	71
1,2,3-Trichlorobenzene	ND	ug/kg	1	20	70
1,2,4-Trichlorobenzene	ND	ug/kg	1	23	79
1,1,1-Trichloroethane	ND	ug/kg	1	12	38
1,1,2-Trichloroethane	ND	ug/kg	1	24	80
Trichloroethene	ND	ug/kg	1	23	78

ANALYTICAL RESULTS: VOC's by EPA 8260 - Methanol - (Saturn 2000)

Customer: URS Corporation (Madison) NLS Project: 68691
 Project Description: Robinson Cleaners
 Project Title: Template: SATS

Sample: 290055 MeOH Blank Collected: 08/21/02 Analyzed: 09/09/02

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ
Trichlorofluoromethane	ND	ug/kg	1	16	54
1,2,3-Trichloropropane	ND	ug/kg	1	16	55
1,2,4-Trimethylbenzene	ND	ug/kg	1	20	70
1,3,5-Trimethylbenzene	ND	ug/kg	1	11	39
Vinyl chloride	ND	ug/kg	1	17	55
meta,para-Xylene	ND	ug/kg	1	39	130
MTBE	ND	ug/kg	1	14	44
Isopropyl Ether	ND	ug/kg	1	16	53
Dibromofluoromethane (SURR**)	98%				
Toluene-d8 (SURR**)	110%				
1-Bromo-4-Fluorobenzene (SURR**)	107%				

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

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

NO. 57056

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

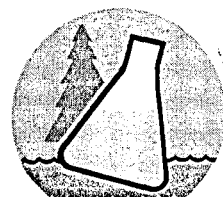
CLIENT URS	
ADDRESS 5250 E. TERRACE STE. I	
CITY MADISON	STATE WI
ZIP 53718	
PROJECT DESCRIPTION / NO. ROBINSON CLEANERS	QUOTATION NO.
CONTACT BOB NAUTA	PHONE 608.244.5656
PURCHASE ORDER NO.	FAX 608.244.1779

- 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-8240

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SK-9-4-02

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX																COLLECTION REMARKS	
			DATE	TIME																		
1.	290047	B-1 30 FT	8/23	0950	SOIL		X															
2.	290048	B-1 70 FT	8/23	1130			X															
3.	290049	B-2 30 FT	8/26	1400			X															
4.	290050	B-3 30 FT	8/21	1410			X															
5.	290051	B-4 40 FT	8/21	1130			X															
6.	290052	B-4 40 FT	8/21	1155			X															
7.	290053	B-5 10 FT	8/21	0910			X															
8.	290054	B-5 40 FT	8/21	0935			X															
9.	290055																					
10.																						

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

REPORT TO

RECEIVED AT NLS BY (signature)	DATE/TIME	CONDITION	TEMP.
COOLER #	REMARKS & OTHER INFORMATION		
PRESERVATIVE:	WDNR FACILITY NUMBER	E-MAIL ADDRESS	

INVOICE TO

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

NOTE:
 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

NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Grandon, 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

Printed: 09/19/02 Code: S Page 1 of 1

Client: URS Corporation (Madison)
 Attn: Bob Nauta
 5250 East Terrace Drive
 Madison, WI 53718

NLS Project: 68969

Project: Robinson's/51279-001

NLS Customer: 91207

MW-1 NLS ID: 291093

Ref. Line 1 COC 57735 MW-1 Matrix: GW
 Collected: 09/12/02 10:30 Received: 09/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8260	see attached		-			09/18/02	SW846 8260	721026460

MW-2 NLS ID: 291094

Ref. Line 2 COC 57735 MW-2 Matrix: GW
 Collected: 09/12/02 09:20 Received: 09/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8260	see attached		-			09/18/02	SW846 8260	721026460

MW-2D NLS ID: 291095

Ref. Line 3 COC 57735 MW-2D Matrix: GW
 Collected: 09/12/02 10:00 Received: 09/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8260	see attached		-			09/18/02	SW846 8260	721026460

MW-3 NLS ID: 291096

Ref. Line 4 COC 57735 MW-3 Matrix: GW
 Collected: 09/12/02 10:10 Received: 09/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8260	see attached		-			09/18/02	SW846 8260	721026460

Trip Blank NLS ID: 291097

Ref. Line 5 COC 57735 Trip Blank Matrix: TB
 Collected: 09/12/02 00:00 Received: 09/13/02

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOCs (water) by EPA 8260	see attached		-			09/18/02	SW846 8260	721026460

Values in brackets represent results greater than the LOD but less than or equal to the LOQ and are within a region of "Less-Certain Quantitation". Results greater than 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

Reviewed by:  Authorized by:
 R. T. Krueger
 President

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2)

Page 1 of 10

Customer: URS Corporation (Madison) NLS Project: 68969

Project Description: Robinson's/51279-001

Project Title:

Template: SAT2W

Sample: 291093

MW-1

Collected: 09/12/02

Analyzed: 09/18/02

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	1.6	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's by EPA 8260 - Water - (Saturn 2)

Customer: URS Corporation (Madison) NLS Project: 68969

Project Description: Robinson's/51279-001

Project Title: Template: SAT2W

Sample: 291093 MW-1 Collected: 09/12/02 Analyzed: 09/18/02

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**)	113%				
Toluene-d8 (SURR**)	108%				
1-Bromo-4-Fluorobenzene (SURR**)	108%				

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



ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2)

Page 3 of 10

Customer: URS Corporation (Madison) NLS Project: 68969

Project Description: Robinson's/51279-001

Project Title: Template: SAT2W

Sample: 291094 MW-2 Collected: 09/12/02 Analyzed: 09/18/02

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	2.9	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	15	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	[0.32]	ug/L	1	0.29	0.97

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2)

Page 4 of 10

Customer: URS Corporation (Madison) NLS Project: 68969

Project Description: Robinson's/51279-001

Project Title: Template: SAT2W

Sample: 291094 MW-2

Collected: 09/12/02

Analyzed: 09/18/02

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**)	117%				
Toluene-d8 (SURR**)	112%				
1-Bromo-4-Fluorobenzene (SURR**)	112%				

Additional non-target compounds detected.

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

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2)

Page 5 of 10

Customer: URS Corporation (Madison) NLS Project: 68969

Project Description: Robinson's/51279-001

Project Title: Template: SAT2W

Sample: 291095 MW-2D

Collected: 09/12/02

Analyzed: 09/18/02

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	1.7	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's by EPA 8260 - Water - (Saturn 2)

Page 6 of 10

Customer: URS Corporation (Madison) NLS Project: 68969

Project Description: Robinson's/51279-001

Project Title: Template: SAT2W

Sample: 291095 MW-2D

Collected: 09/12/02

Analyzed: 09/18/02

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**)	112%				
Toluene-d8 (SURR**)	105%				
1-Bromo-4-Fluorobenzene (SURR**)	106%				

Additional non-target compounds detected.

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

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2)

Page 7 of 10

Customer: URS Corporation (Madison) NLS Project: 68969

Project Description: Robinson's/51279-001

Project Title: Template: SAT2W

Sample: 291096 MW-3

Collected: 09/12/02

Analyzed: 09/18/02

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	1.6	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's by EPA 8260 - Water - (Saturn 2)

Page 8 of 10

Customer: URS Corporation (Madison) NLS Project: 68969

Project Description: Robinson's/51279-001

Project Title:

Template: SAT2W

Sample: 291096 MW-3

Collected: 09/12/02

Analyzed: 09/18/02

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**)	120%				
Toluene-d8 (SURR**)	113%				
1-Bromo-4-Fluorobenzene (SURR**)	110%				

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

ANALYTICAL RESULTS: VOC's by EPA 8260 - Water - (Saturn 2)

Page 9 of 10

Customer: URS Corporation (Madison) NLS Project: 68969

Project Description: Robinson's/51279-001

Project Title: Template: SAT2W

Sample: 291097 Trip Blank

Collected: 09/12/02

Analyzed: 09/18/02

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's by EPA 8260 - Water - (Saturn 2)

Page 10 of 10

Customer: URS Corporation (Madison) NLS Project: 68969

Project Description: Robinson's/51279-001

Project Title:

Template: SAT2W

Sample: 291097 Trip Blank

Collected: 09/12/02

Analyzed: 09/18/02

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**)	114%				
Toluene-d8 (SURR**)	109%				
1-Bromo-4-Fluorobenzene (SURR**)	109%				

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

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

NO. 57735

Wisconsin Lab Cert. No. 721026460

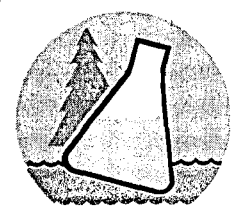
Analytical Laboratory and Environmental Services
400 North Lake Avenue • Crandon, WI 54520-1298
Tel: (715) 478-2777 • Fax: (715) 478-3060

CLIENT <i>URS Corporation</i>		
ADDRESS <i>5250 Terrace Dr. Ste I</i>		
CITY <i>Madison</i>	STATE <i>WI</i>	ZIP <i>53718</i>
PROJECT DESCRIPTION / NO. <i>Robinson's / 51279-001</i>		QUOTATION NO.
CONTACT <i>Bob Nauta</i>	PHONE <i>608-244-5656</i>	
PURCHASE ORDER NO.	FAX <i>608-244-1779</i>	

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	USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered. Indicate G or C if WW Sample is Grab or Composite.												
	G	Z											
<i>VOCs</i>													



ITEM NO.	NLS LAB NO.	SAMPLE ID	COLLECTION		MATRIX	ANALYZE PER ORDER OF ANALYSIS												COLLECTION REMARKS		
			DATE	TIME		G	Z													
1.	291093	MW-1	9/12/02	1030	GW	X														
2.	291094	MW-2		0920		X														
3.	291095	MW-2D		1000		X														
4.	291096	MW-3		1010		X														
5.	291097	Triplet Blank				X														
6.																				
7.																				
8.																				
9.																				
10.																				

COLLECTED BY (signature) <i>Wh [unclear]</i>	CUSTODY SEAL NO. (IF ANY)	DATE/TIME	REPORT TO <i>Bob Nauta</i>
RELINQUISHED BY (signature) <i>Wh [unclear]</i>	RECEIVED BY (signature)	DATE/TIME	
DISPATCHED BY (signature) <i>Wh [unclear]</i>	METHOD OF TRANSPORT	DATE/TIME	

RECEIVED AT NLS BY (signature) <i>Mack Chaney</i>	DATE/TIME <i>9/13/02 12:30</i>	CONDITION <i>On Deck</i>	TEMP.
COOLER # <i>94-B</i>	REMARKS & OTHER INFORMATION <i>8260- per Bob Nauta DMW 9/11/02</i>		
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	WDNR FACILITY NUMBER	E-MAIL ADDRESS	

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