2007 ONSITE VAPOR INTRUSION SAMPLING

ARCH CHEMICALS, INC.
ROCHESTER PLANT SITE
ROCHESTER, NEW YORK

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TABLE OF CONTENTS

1.0 INTRODUCTION

MACTEC Engineering and Consulting, Inc. (MACTEC) has been contracted by Arch Chemicals, Inc., (Arch) to perform environmental investigation activities at their facility in Rochester, NY. MACTEC has prepared this report on behalf of Arch to describe the results of the 2007 on-site vapor intrusion sampling program at their Rochester facility.

1.1 SITE HISTORY

Arch is the current owner of the Rochester Plant located at 100 McKee Road, a private industrial road in the southwestern section of Rochester, New York (Figure 1). The plant property is approximately 15.3 acres.

Manufacturing operations have consisted of organic and inorganic chemical production. The primary products are specialty organic chemicals, many of which are produced in small quantities. Due to the nature of the manufacturing operations at Rochester, a large number of organic raw materials, intermediates, and products have been handled at the plant. In 1948, Genesee Research (a fully-owned subsidiary of the Puritan Company) first established a facility at the site for manufacturing automotive specialty products (e.g., brake fluids, polishes, anti-freeze, and specialty organic chemicals). In 1954, Mathieson Chemical Corporation acquired Puritan and merged with Olin Industries to become Olin Mathieson Chemical Corporation. Production of brake fluid and anti-freeze continued for a time, but in the early 1960s production of specialty organic chemicals including Zinc Omadine™ and chloropyridines began. In 1969, Olin Mathieson changed its name to Olin Corporation (Olin), and in 1999 Olin spun off its specialty chemicals business to form an independent company known as Arch Chemicals, Inc. The Arch Rochester plant is the sole manufacturer of chloropyridines in the United States.

The Rochester Plant has been the subject of various environmental investigations since the early 1980s, including a two-phased RI conducted in 1994-1996. These investigations have documented the presence of site-related chemicals, primarily chloropyridines and volatile organic compounds, in soil and groundwater at the site.

A Feasibility Study (FS) was completed in January 2000, in which a range of possible site remedial actions were evaluated. The FS was performed to fulfill part of the requirements of the previous Order on Consent between the NYSDEC and Olin, dated August 23, 1993.

On March 29, 2002, the NYSDEC issued a Record of Decision that selected a remedial action for addressing impacted groundwater beneath and downgradient of the site. This portion of the overall site remedy, contaminated groundwater, is referred to as Operable Unit No. 2 (OU-2). Contaminated soil and bedrock onsite (i.e., source areas) may be addressed separately in the future as Operable Unit No. 1 (OU-1).

Beginning in 2005, and at the request of the NYSDEC, Arch has been conducting annual vapor intrusion sampling at its Rochester plant. The sampling consists of sub-slab and indoor air samples collected at six locations within the facility buildings, plus one ambient (outdoor) air sample. The sampling event described in this report represents the third year of vapor intrusion sampling at the Rochester plant.

1.2 ORGANIZATION OF REPORT

This Investigation Report consists of five sections, and four appendices:

- Section 1 – Introduction
- Section 2 – Sampling Procedures
- Section 3 – Results
- Section 4 – Conclusions and Recommendations
- Section 5 – References

Appendix A includes meteorological data covering the sampling time period. Appendix B contains the Field Data Records, while Appendix C provides the laboratory analytical data. Calculations supporting the risk evaluation are included in Appendix D.

2.0 SAMPLING PROCEDURES

For the 2007 onsite vapor intrusion sampling event, samples were collected using SUMMA® canisters for the analysis of volatile organic compounds (VOCs) and chloropyridines (2-dichloropyridine and 2,6-dichloropyridine). Sampling stations were the same as in previous sampling events, as shown on Figure 2, and used the sub-slab vapor probes installed in 2005. At each indoor location, concurrent sub-slab vapor and indoor air samples were collected. An outdoor (ambient) air sample was also collected concurrently. The samples were collected on March 14, 2007. Meteorological data during the sampling event was obtained from the National Weather Service website for the Monroe County airport station, which is within a few miles of the site. Meteorological data obtained included: wind speed, wind direction, temperature, dewpoint, and atmospheric pressure. These data are provided in Appendix A.

2.1 SAMPLE COLLECTION

Sampling was conducted during a regular daytime working shift at the plant to correspond with the daily exposure period of interest in characterizing risks for commercial/industrial workers. The following equipment and supplies were used during completion of air sampling:

- 6-L SUMMA® canisters
- Vacuum gauge (0-30 inches of mercury [in. Hg] range)
- Stainless steel inlet filter
- Teflon tubing (for connection to the sub-slab sampling probe)
- Fixed-orifice flow controller
- ¼-inch Swagelock nuts

The analytical laboratory provided batch-certified SUMMA® canisters that had been evacuated to a pressure of -30 in. Hg prior to sampling. During sampling, canisters collected time-weighted samples by regulating the flow rate into the canister through a stainless steel pre-cleaned flow controller. The controller's orifice was sized appropriately to obtain an approximately 8-hr. time-weighted average sample with a final vacuum pressure less than 5 in. Hg.

The following steps were followed when setting up a canister for sampling:

1. Check the initial vacuum of the labeled canister by removing the brass cap from the canister and connecting the vacuum gauge to the canister, then opening the valve. The pressure should read -30 in. Hg, ± 2 in. Hg. Record the canister starting pressure. Make sure the vacuum gauge is capped off on the outlet or the canister will fill immediately and cannot be used.
2. Close the canister valve (hand tight) and remove the vacuum gauge. Do not over tighten the valve, but ensure the valve is closed. Make sure the valve is closed before removing the gauge or the canister will fill immediately and cannot be used.
3. Remove the brass cap and plastic plug from the flow controller. Fixed-orifice flow controllers will be used, so there is no setting of the flow rate in the field.
4. Connect the flow controller outlet to the canister. Tighten the nut (on the flow controller) 1/4 turn beyond finger tight. Verify the tightness of the connection by attempting to rotate the flow controller. It should not be possible to rotate the controller.
5. Connect the filter to the flow controller inlet. Tighten the filter to the flow controller using a wrench. The filter prevents dust or particulates from entering the flow controller.

6. For sub-slab samples, remove the plug from the sampling probe and install the barbed connector onto the probe. Connect a length of new Teflon tubing from the probe to the inlet of the sample train.
7. Once all connections are complete, open the canister valve fully to initiate sampling. Record the sample start time.

After sampling was complete, the following procedures were performed:

1. Close the valve on the canister and remove the canister from the sample location.
2. Check the final pressure of the labeled canister by removing the flow controller and filter, connecting the vacuum gauge to the canister, and opening the valve. The pressure should be less than 5 in. Hg. Record the final vacuum on the canister label.
3. Close the canister valve and then remove the vacuum gauge.
4. Send the labeled canister accompanied with a chain-of-custody form to the laboratory for analysis.

A Sampling Data Sheet was used to record all data on sampling times and canister readings (see Appendix A, Field Data Records). Other observations and field notes were recorded in the field log book.

For quality control purposes, a duplicate sample was collected at one indoor air sampling location.

Sub-slab sample probe connections were tested for potential leaks during sampling using reagent-grade isopropanol (a.k.a.. 2-propanol) saturated wipes provided by the analytical laboratory. The wipes were wrapped around the barbed fitting connection after the tubing was attached and remained in place throughout the sampling period. Isopropanol was then analyzed in the collected samples as part of the laboratory's standard target analyte list.

3.0 RESULTS

Samples were analyzed for VOCs and chloropyridines by Con-Test Analytical Laboratory in East Longmeadow, Massachusetts. VOCs and chloropyridine were analyzed using USEPA Method TO-15 with standard reporting limits. The list of analytes reflects the laboratory's standard TO-15 reporting list, plus 2-chloropyridine and 2,6-dichloropyridine.

The laboratory analytical reports for the VOCs and chloropyridines are included in Appendix C. The following sections provide an evaluation of the reported data for the purpose of identifying target compounds that may have a complete migration pathway from sub-slab soil gas to indoor air in the Arch Chemicals on-site buildings, and to assess the potential health risks associated with exposure to those target compounds in indoor air.

3.1 DATA QUALITY

Laboratory TO-15 analytical results for VOCs (including 2-chloropyridine and 2,6-dichloropyridine) were reviewed for the following parameters:

- Holding Times
- Quality Control Blanks
- Initial Calibration
- Continuing Calibration

- Laboratory Control Samples
- Laboratory Duplicate Precision
- Leak Testing (Isopropanol)

All criteria were met with the following exceptions.

Acetone is reported in the method blank associated with samples IA-07-001, IA-07-002, IA-07-003, IA-01-004, and SG-07-189. Methylene chloride is reported in the method blank associated with sample SG-07-190. Action limits were established at ten times the reported blank concentrations for acetone and methylene chloride. Results for acetone in samples IA-07-001, IA-07-002, IA-07-003, IA-01-004, and SG-07-189 are greater than the action limit. The result for methylene chloride in sample SG-07-190 is non-detect. No further action required.

In the continuing calibration associated with a subset of samples: the percent difference for hexachlorobutadiene (27 and 42), 1,2,4-trichlorobenzene (42), vinyl acetate (30 and 33), 2-chloropyridine (28), 2-butanone (27), and 2,6-dichloropyridine (32) exceed the QC limit of 25. The associated samples are IA-07-001, IA-07-002, IA-07-003, IA-07-004, IA-07-005, and SG-07-179. The result for hexachlorobutadiene, 2,6-dichloropyridine, and 1,2,4-trichlorobenzene in associated samples are non-detect and were qualified estimated (UJ). The result for 2-chloropyridine, vinyl acetate, and 2-butanone in associated samples were qualified estimated (J/UJ). The response factor for 2-chloropyridine (0.049) is less than the QC limit of 0.050. The result for 2-chloropyridine in samples IA-07-002DUP, IA-07-006, OA-07-001, and SG-07-192 were qualified estimated (J).

In the laboratory control sample (LCS) associated with a subset of samples: the percent recovery for ethanol (160), hexachlorobutadiene (142), and 1,2,4-trichlorobenzene (142) exceed the upper QC limit of 130. The result for ethanol in associated samples IA-07-001, IA-07-002, and IA-01-004 were qualified estimated (J). The results for hexachlorobutadiene and 1,2,4-trichlorobenzene are non-detect, no further action required.

In the laboratory control sample (LCS) associated with a subset of samples: the percent recovery for vinyl acetate (67) is less than the lower QC limit of 70. The result for vinyl acetate in associated samples SG-07-188, SG-07-193, and SG-07-191RE are non-detect and were qualified estimated (UJ).

In the laboratory control sample (LCS) associated with a subset of samples: the percent recovery for 2-hexanone (68) is less than the lower QC limit of 70. The result for 2-hexanone in sample SG-07-190 is non-detect and was qualified estimated (UJ).

A field duplicate was collected for sample IA-07-002. The relative percent difference (RPD) between the sample and duplicate analysis for chloroform (136), chloromethane (67), dichlorodifluoromethane (51), 1,1-dichloroethene (123), hexane (130), and methylene chloride (140) exceed the quality control (QC) limit of 50. The result for chloroform, chloromethane, dichlorodifluoromethane, 1,1-dichloroethene, hexane, and methylene chloride in samples IA-07-002 and IA-07-002DUP were qualified estimated (J/UJ)

The leak-detection chemical isopropanol was detected in all sub-slab vapor samples. New York State guidance on vapor intrusion sampling (NYSDOH, 2006) indicates that the concentration of the leak detection chemical should be less than 10 percent in the analyzed sample to be considered a valid sample. Concentrations of isopropanol in all collected samples were less than one percent, indicating an effective seal of the sub-slab soil vapor point.

With these qualifications, the data is judged to be usable for its intended purpose.

3.2 DATA EVALUATION

The objective of this analysis is to identify contaminants that may occur in indoor air at concentrations that are present in indoor air as a result of sub-slab soil gas intrusion into the indoor air and pose a potential health risk. This analysis involved characterizing cancer and non-cancer risks to workers who may be exposed to contaminants detected in the indoor air, and evaluation of indoor air data using the soil gas data, background data, and published air guideline values. The background data used in this analysis include the outdoor air samples collected during the air sampling events in 2005 through 2007, as well as ranges of indoor air VOC concentrations developed through a NYSDOH study of homes (1997 – 2003) presented in NYSDOH guidance (NYSDOH, 2006). Air Guideline Values derived by NYSDOH are published for methylene chloride, tetrachloroethene, and trichloroethene (NYSDOH, 2006).

Table 1 presents the analytical indoor air and soil gas data and comparison to risk-based screening levels. The risk-based screening levels used for data comparisons in Table 1 are based on values published by USEPA in the "Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soil" (USEPA, 2002a). The screening levels developed by USEPA are based on residential exposures (i.e., continuous exposures) and are protective for an excess lifetime cancer risk of $1x10^{-6}$ and a hazard index of 1. As shown in Table 1, risk-based screening levels that are protective for worker exposures (i.e., exposures 8 hours per day, 5 days per week) were derived from the USEPA-published residential screening values. The worker-based screening levels, rather than the residential-based screening levels, were used for the evaluation of the indoor air and soil gas data because residential screening levels are not applicable for the Arch manufacturing facility. The shaded values in Table 1 indicate that detected concentrations in each of the areas sampled exceed risk-based screening levels for workers, indicating that a more thorough evaluation of potential risks is required. The remainder of this subsection presents the risk characterization.

3.2.1 Risk Characterization Methods.

Indoor air samples were collected from three areas within the Building: An office (Office), the Warehouse Area (Warehouse), and the Production Area (Production Area). Each of these areas may be occupied daily by workers at the facility. However, the duration of daily exposure at each of these areas for a single worker could range from as little as an hour or less, to as much as a full work-day shift (8 hours). Daily occupancy would generally not exceed the duration of a work-day shift.

For this evaluation, it was conservatively assumed that workers occupy a single area for a full work-day, each work-day, over their duration of employment at the facility. Consequently, it was assumed that exposure to indoor air at each area (i.e., office, warehouse, production) occurs 8 hours per day, 5 days per week, over a 25 year period. These exposure assumptions correspond to USEPA-recommended reasonable maximum exposure (RME) parameters for full-time indoor workers (USEPA, 2002b).

The exposure point concentrations (EPCs) for indoor air at each area are the arithmetic mean concentrations of the air samples that have been collected over the three rounds of sampling (April, 2005; March, 2006; March, 2007). Use of the arithmetic mean concentrations as EPCs are appropriate because:

- Workers move throughout a given work area during the day and, therefore, are exposed to air throughout the area (i.e., they are not stationary at a single point in the Warehouse or Production area, but rather move throughout those areas). In reality, workers likely move throughout the entire facility and are, therefore, likely only exposed to air at a given area (e.g., warehouse) a portion of each day.

- Air is a dynamic medium that is constantly in motion due to mechanical ventilation of the buildings. Consequently, the concentrations measured at a single point in a given area do not represent the concentrations that occur throughout the area.
- Consideration of indoor air concentrations measured during the three rounds of air sampling provides an estimate of the long-term air concentrations workers may potentially be exposed to.

Arithmetic mean concentrations were calculated using a value of one-half the sample quantitation limit for results reported non-detect (i.e., a value equal to one-half the "U" qualified value was used in the averaging). For analytes reported in fewer than the three rounds of sampling that have been performed, the average concentrations were calculated using the available data.

The Office Area EPCs are represented by the average concentrations reported in samples from location IA-001. The Production Area EPCs are represented by the average concentrations in samples from locations IA-002, IA-003, and IA-004. The Warehouse EPCs are represented by the average concentrations reported in samples IA-005 and IA-006.

The background concentrations were represented by the average concentrations reported in samples from the outdoor location (OA-001).

Concentrations of 2-propanol in the samples collected in 2007 are likely the result of the chemical's use as a leak detection indicator. For this reason, and because of its low toxicity, 2-propanol was not considered in the risk evaluation.

Risks were calculated using the following algorithms, which are consistent with USEPA guidance (e.g., USEPA 2002a and USEPA 2002b) and generally accepted risk assessment practices.

Cancer Risk:
ELCR = (EPC x EF x ED x ET x URF) / (ATc x CF)

Hazard Index:
HI = (EPC x EF x ED x ET) / (ATn x CF x RfC)

Where:
EPC = Exposure Point Concentration for indoor air (ug/m^3)
ELCR = Excess lifetime cancer risk (unitless)
HI = Hazard Index (unitless)
ATc = Averaging time, cancer (70 years or 25550 days)
ATn = Averaging time, non-cancer (equal to ED, in days)
CF = Conversion factor (24 hours/day)
EF = Exposure frequency (250 days/year)
ED = Exposure duration (25 years)
ET = Exposure time (8 hours/day)
URF = Unit risk factor (risk per ug/m^3)
RfC = Reference concentration (ug/m^3)

The sources of values for the URF and RfC are the Integrated Risk Information System (IRIS; USEPA on-line data base), USEPA National Center for Environmental Assessment (NCEA), and USEPA Health Effects Assessment Summary Tables (HEAST). URF and RfC values for 2-chloropyridine and 2,6-dichloropyridine are not published in USEPA sources, but were developed by Arch in support of on-going environmental investigations at the facility. The risk calculations referred to in this analysis are presented in Appendix D.

Pathway Completeness Evaluation. Although employees may be exposed to all of the constituents detected in indoor air samples, not all constituents detected in indoor air are present as a result of vapor intrusion from subsurface sources. In order for the presence of a constituent in indoor air to be attributable to vapor intrusion from subsurface sources, the constituent must be present in both soil gas and indoor air samples collected during the same sampling event. In addition, constituents present in indoor air solely due to vapor intrusion typically exhibit concentrations at least 100-fold lower than their corresponding soil gas concentrations (USEPA, 2002).

The pathway completeness evaluation for each of the areas within the Main Plant Building is presented in the risk characterization findings. The pathway completeness evaluation was used to identify the constituents detected in indoor air for which a potentially complete vapor intrusion pathway may exist. Of the constituents with potentially complete vapor intrusion pathways, the detected indoor air concentrations were compared to published background values, NYSDOH Air Guideline Values, and risk-based indoor air screening levels. Health risks were evaluated for the constituents with indoor air concentrations in excess of the highest of these values, as follows:

1) Health risks were calculated for all of the constituents;
2) Health risks were calculated for only the constituents detected in indoor air that are not associated with manufacturing operations at the facility;
3) Health risks to workers/employees were evaluated for the constituents detected in indoor air that are known to be associated with manufacturing operations via comparison of detected concentrations to worker exposure limits (PELs).

3.2.2 Risk Characterization Findings.

The results of the risk characterization are summarized below for each general area of the Main Plant Building.

Office Area. Table 2 presents the pathway completeness evaluation and risk analysis for the indoor air quality at the Office Area. A review of Table 2 indicates that the vapor intrusion pathway is potentially complete for only two constituents: 2-chloropyridine, and methylene chloride. Of these two constituents, the indoor air concentration of methylene chloride (10 ug/m^3) was well below the NYSDOH air guideline value (60 ug/m^3).

The concentration of 2-chloropyridine in indoor air is greater than the risk-based screening value and site-specific outdoor concentration, and there are no published background values for 2-chloropyridine. However, 2-chloropyridine is manufactured at the facility. The indoor air concentration measured in March, 2007 (24 ug/m^3) is the same as the concentration measured in March, 2006 (Table 2), yet the soil gas concentrations changed by nearly 3-fold over that same time period. The soil gas concentration measured in March 2007 (34 ug/m^3) is nearly equal to the indoor air concentration. If the presence of 2-chloropyridine in indoor air at the office location was due to vapor intrusion, the soil gas concentration would likely be at least 10 to 100-times greater than the indoor air concentration, and the indoor air concentration would show a variation over time similar to the variation over time in soil gas concentration. Collectively, this suggests that the presence of 2-chloropyridine in indoor air is due to the use and manufacture of the chemical at the facility, and not due to vapor intrusion.

The cancer risk associated with inhalation exposure to 2-chloropyridine in indoor air at the Office Area is 1E-05 and the hazard index is 0.5. However, since 2-chloropyridine is used/manufactured at the facility and is not likely present in indoor air due to vapor intrusion, the most appropriate method for evaluating potential health risks to workers is via workplace exposure limits. The detected indoor air concentration of 24 ug/m^3 is well below the Arch workplace air standard of 2,300 ug/m^3.

In summary, there are only two constituents detected in indoor air at the Office Area that may be present as a result of vapor intrusion (methylene chloride and 2-chloropyridine). Of these two constituents, only 2-chloropyridine is present at concentrations greater than background, risk-based or NYSDOH guideline values. However, the presence of 2-chloropyridine in indoor air is most likely to due its use/manufacture at the facility. The measured concentration in indoor air is two-orders of magnitude lower than the Arch workplace air standard.

Warehouse Area. Table 3 presents the pathway completeness evaluation and risk analysis for the indoor air quality at the Warehouse Area. A review of Table 3 indicates that the vapor intrusion pathway is potentially complete for 19 constituents. Of these, 11 constituents were detected at maximum concentrations below published background values, NYSDOH air guideline values, and/or risk-based screening values. Of the remaining eight constituents, five were detected at concentrations greater than screening values (2-chloropyridine, 2,6-dichloropyridine, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and chloroform), and three do not have any published screening values (4-ethyltoluene, cyclohexane, and heptane). These eight constituents are further evaluated in this risk analysis.

A review of the Warehouse Area soil gas and indoor air concentrations presented in Table 3 indicates that for these constituents, indoor air concentrations were generally higher than soil gas concentrations in the March 2007 sampling round. This suggests that the presence of these constituents in indoor air cannot be solely attributable to vapor intrusion, because even under ideal equilibrium conditions the soil gas and indoor air concentrations would only equal each other. Moreover, 2-chloropyridine and 2,6-dichloropyridine are manufactured and stored at the facility, and chloroform is a manufacturing process-related contaminant that is present in facility wastewater. This suggests that the presence of these three constituents in indoor air is most likely due to the use and storage of the constituents at the facility, and not to vapor intrusion.

The health risks associated with inhalation exposures to all eight of the constituents evaluated in this risk analysis is a cancer risk of 3E-04 and a hazard index of 25. Virtually all of the cancer risk and the majority of the non-cancer risk is associated with chloropyridines. The health risks associated with constituents that are not directly related to use and manufacturing at the facility (trimethylbenzenes, 4-ethyltoluene, cyclohexane, and heptane) is a hazard index of 10; none of these constituents are potentially carcinogenic. This hazard index is primarily associated with trimethylbenzenes. The presence of trimethylbenzenes in the warehouse is potentially linked to the routine presence of trucks at the loading docks, since trimethylbenzenes are known constituents of diesel exhaust and petroleum products.

Given that the facility is an operating chemical manufacturing plant and that none of the eight constituents evaluated in this risk analysis for the Warehouse Area are likely present in indoor air as a result of vapor intrusion, the most appropriate method for evaluating potential health risks to workers is via workplace exposure limits. The following table presents a comparison of the indoor air EPCs at the Warehouse Area to OSHA Permissible Exposure Limits (PELs).

Constituent	EPC (mg/m^3)	PEL (mg/m^3)
2-Chloropyridine	0.399	Not available; however, Arch's company indoor air monitoring threshold is 2.3
2,6-Dichloropyridine	0.253	Not available; assumed to be similar to 2-chloropyridine
1,2,4-Trimethylbenzene	0.196	Not available
1,3,5-Trimethylbenzene	0.075	Not available
4-Ethyltoluene	0.094	Not available
Chloroform	0.0023	240
Cyclohexane	0.00055	1050
Heptane	0.0064	2000

In summary, there are 19 constituents detected in indoor air at the Warehouse Area that may be present as a result of vapor intrusion, but only eight of which were detected at concentrations greater than background values, NYDOH air guideline values, or risk-based values (2-chloropyridine, 2,6-dichloropyridine, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and chloroform), or which do not have any of these screening values (4-ethyltoluene, cyclohexane, and heptane). Since the indoor air concentrations of all of these constituents are greater than the soil gas concentrations and at least three of the constituents (2-chloropyridine, 2,6-dichloropyridine and chloroform) are manufactured or are present in materials used at the facility, it is unlikely that the presence of these constituents in indoor air is due to vapor intrusion. The indoor air concentrations of these constituents are well below their workplace air standards.

Production Area. Table 4 presents the pathway completeness evaluation and risk analysis for the indoor air quality at the Production Area. A review of Table 4 indicates that the vapor intrusion pathway is potentially complete for 23 constituents. Of these, 18 constituents were detected at maximum concentrations below published background values, NYSDOH air guideline values, and/or risk-based screening values. Of the remaining five constituents, four were detected at concentrations greater than these screening values (2-chloropyridine, 2,6-dichloropyridine, carbon tetrachloride, and chloroform) and one does not have a screening value (ethanol). . These five constituents are further evaluated in this risk analysis.

A review of the soil gas and indoor air concentrations presented in Table 4 indicates that for these constituents, indoor air concentrations were generally lower than soil gas concentrations in the March, 2007 sampling round. This suggests that, conceptually, the presence of these constituents in indoor air could be attributable to vapor intrusion. However, a comparison of soil gas and indoor air concentrations indicates that for 2-chloropyridine and 2,6-dichloropyridine, the soil gas concentrations are similar to the indoor air concentrations, whereas for carbon tetrachloride, chloroform, and ethanol the soil gas concentrations are generally 50 to 500 times greater than the indoor air concentrations. 2-Chloropyridine and 2,6-dichloropyridine are manufactured and stored at the facility, and chloroform is a manufacturing process-related contaminant. This suggests that the presence of chloropyridines, and possibly chloroform, in indoor air is most likely due to the use and storage of the constituents at the facility, and not to vapor intrusion.

The health risks associated with inhalation exposures to all five of the constituents at the Production Area is a cancer risk of 4E-04 and a hazard index of 19. Virtually all of the cancer risk and the majority of the non-cancer risk is associated with chloropyridines. The health risks associated with constituents that are not directly related to use and manufacturing at the facility (primarily carbon tetrachloride) are a cancer risk of 3E-06 and a hazard index of 0.007.

Given that the facility is an operating chemical manufacturing plant and that the chloropyridines are manufactured at the facility, the most appropriate method for evaluating potential health risks to workers is via workplace exposure limits. The following table presents a comparison of the indoor air EPCs at the Production Area to PELs.

Constituent	EPC (mg/m^3)	PEL (mg/m^3)
2-Chloropyridine	0.77	Not available; however, Arch's company indoor air monitoring threshold is 2.3
2,6-Dichloropyridine	0.042	Not available; assumed to be similar to 2-chloropyridine
Carbon tetrachloride	0.0022	2.0
Chloroform	0.012	240
Ethanol	0.045	1,900

In summary, there are 23 constituents detected in indoor air at the Production Area that may be present as a result of vapor intrusion, but only four of which were detected at concentrations greater than background values, NYDOH air guideline values, or risk-based values (2-chloropyridine, 2,6-dichloropyridine, carbon tetrachloride, and chloroform). The minimal difference between indoor air concentrations and soil gas concentrations for 2-chloropyridine and 2,6-dichloropyridine, as well as their use/manufacture at the facility, suggest that their presence in indoor air is not due to vapor intrusion. The differences in soil gas concentrations of other constituents (e.g., carbon tetrachloride and ethanol) suggest that their presence in indoor air may be attributable to vapor intrusion. However, health risks associated with these constituents are negligible. Moreover, the indoor air concentrations of all of these constituents are well below their workplace air standards.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The results of 2007 on-site vapor intrusion sampling event indicate that the following chemicals may be present in indoor air as a result of soil gas intrusion, exceed background and/or guideline values, and pose risks in excess of the NYSDOH point of departure of 1E-06 for cancer risk or HI of 1 for non-cancer risk:

Office Area:	2-chloropyridine
Warehouse Area:	2-chloropyridine, 2,6-dichloropyridine, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and chloroform
Production Area:	2-chloropyridine, 2,6-dichloropyridine, carbon tetrachloride, and chloroform

However, comparison of soil gas and indoor air data for these compounds suggests that the primary source of these compounds in indoor air at the Office Area and Warehouse Area is not soil gas. Of the chemicals listed above, only carbon tetrachloride is not associated with current activities at the facility, but the risks posed by carbon tetrachloride are minimal (carcinogenic risk of 3E-06 or less; HI values well below 1). For chemicals that are associated with current activities, all are well below their applicable worker protection thresholds. Indoor air quality is monitored annually by Arch as part of its industrial health and safety program.

As was the case with the 2005 and 2006 sampling, soil vapor concentrations were generally found to be highest under the building slab in the chemical production area of the plant, and diminish rapidly toward the south (i.e., under the warehouse building) and to the northwest (i.e., beneath the office area). However, in the 2007 data it is noted that there is an increase in chloropyridine compounds in the sub-slab soil vapor over the prior year in the warehouse samples.

The monitoring conducted over the past three years has established that vapor intrusion is not a significant exposure pathway for workers at the Arch facility. In regard to the potential for offsite vapor migration at concentrations that may pose a risk to occupants of adjacent properties, the NYSDEC requested (3/16/2007 email from J. Craft) that Arch evaluate the need for additional soil vapor sampling for chloropyridines at the facility property boundary. The results of onsite vapor intrusion sampling conducted to date indicate that additional soil vapor sampling in the direction of the Firth Rixson facility is not necessary because of the low observed concentrations of chloropyridine compounds in the Office Area sub-slab samples within the Arch plant. However, Arch does agree to conduct a limited additional soil vapor sampling event along its southern property boundary to confirm that chloropyridine vapors are not migrating offsite at unacceptable concentrations in the direction of the American Recycling and Manufacturing (ARM) building. It is proposed that this sampling consist of three subsurface soil vapor probes installed along the southern fence line on Arch's property adjacent to the ARM building. With the concurrence of the NYSDEC, Arch will conduct this sampling during the second half of 2007.

5.0 REFERENCES

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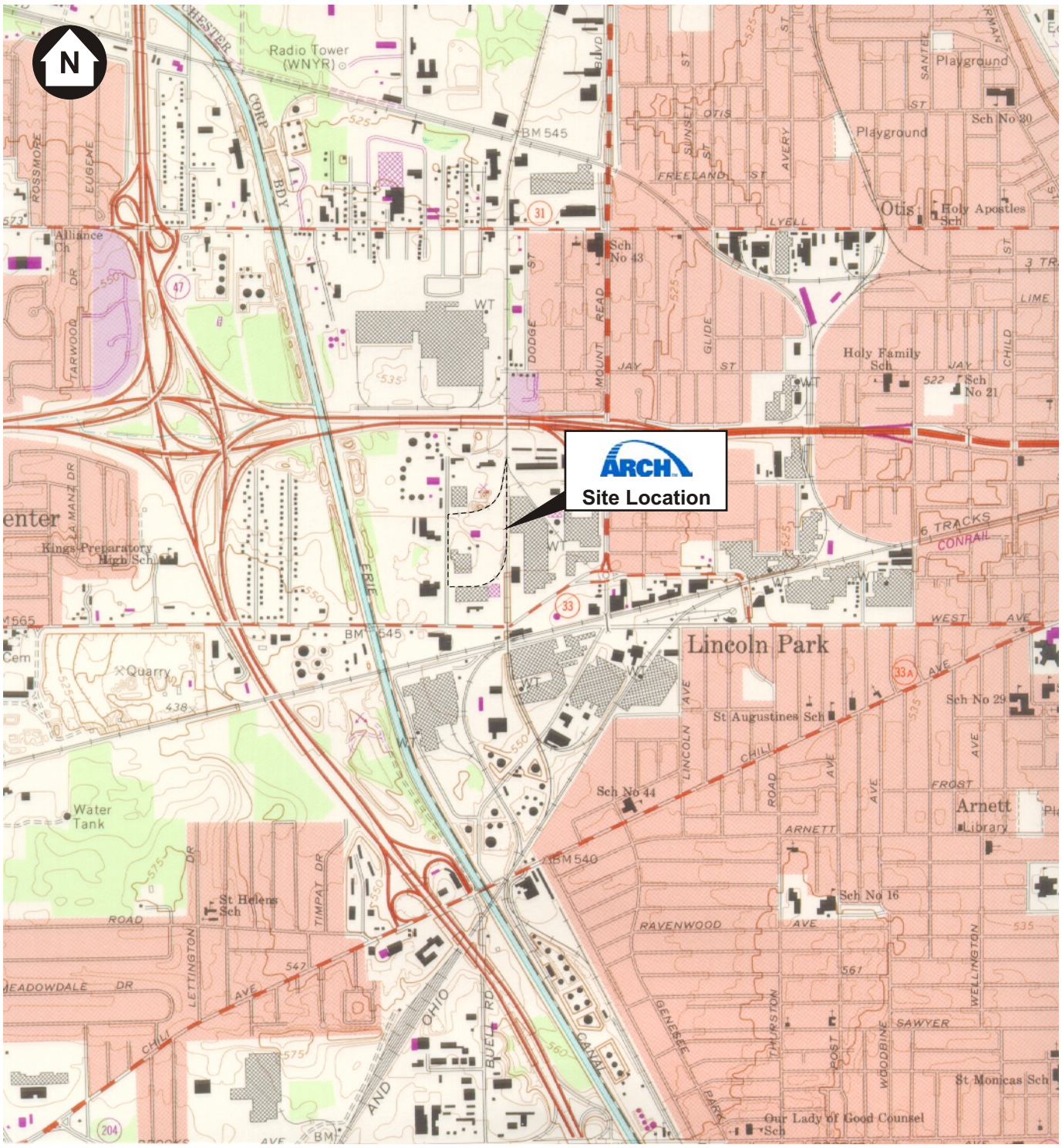
FIGURES



New York

QUADRANGLE LOCATION

Source: USGS Topographic Quadrangle, 7.5 minute Series, Rochester West, N.Y. 1971 (Photorevised 1978).

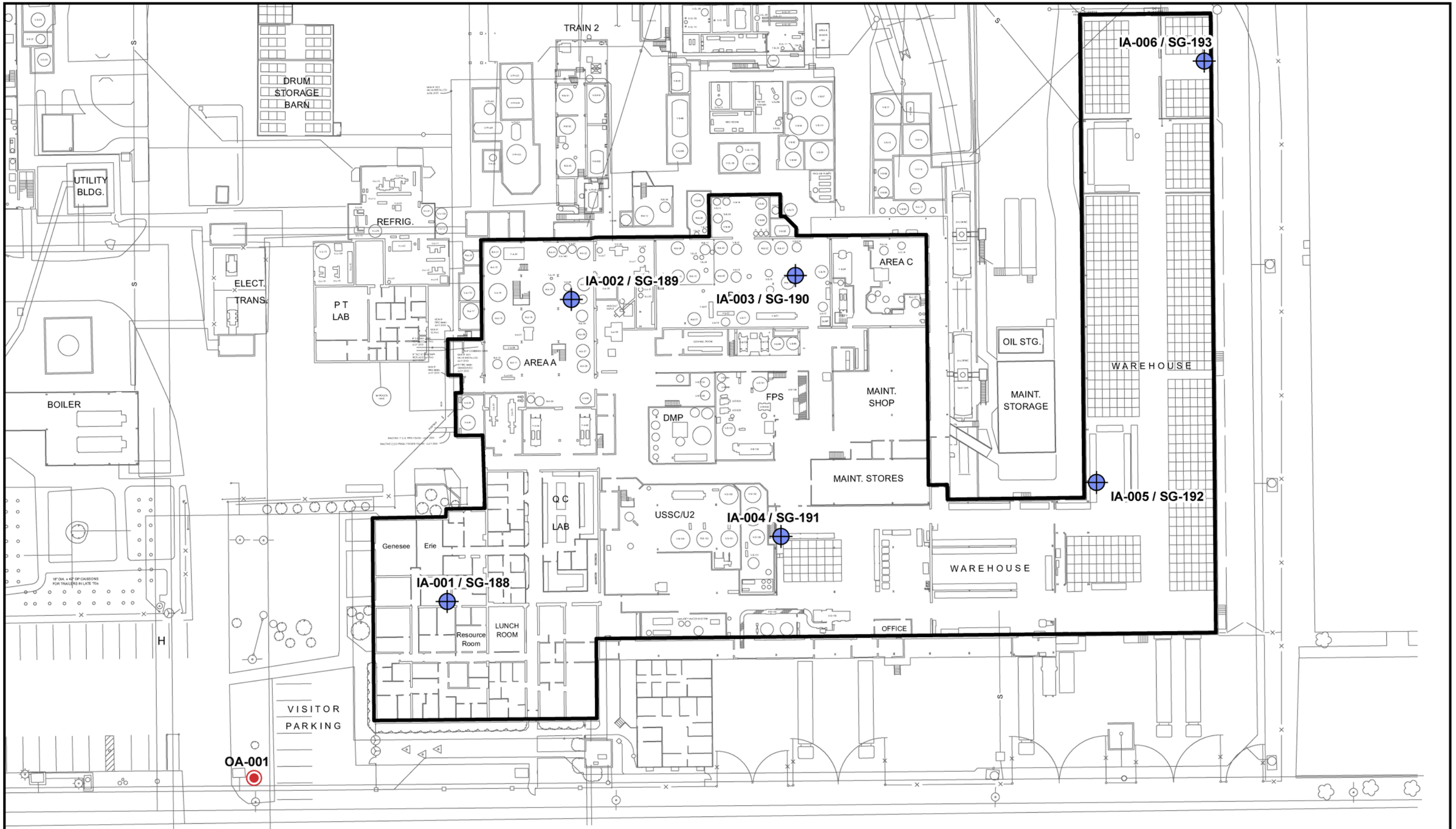
Scale in Feet

0 2,000 4,000

FIGURE 1
SITE LOCATION MAP
ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

MACTEC

W2003035b.cdr



Legend

Indoor / Subslab Samples

Outdoor Air Sample

N 0 25 50 Feet

Prepared by BRP | Checked by JEB

VaporIntrusionStudy_11x17LS.mxd Figure2.pdf

Figure 2
Onsite Sampling Locations
Vapor Intrusion Study
Arch Chemicals
Rochester, NY
MACTEC, Inc.

TABLES

Table 1
Comparison of Indoor Air and Soil Gas Data (µg/m³) to Risk-Based Screening Levels

	Risk-Based Screening Values		Air Samples																				
			office			production area									warehouse			warehouse (cont)			outdoor		
	Indoor Air Generic (Residential)	Indoor Air Commercial/ Industrial	IA-001 4/6/05	IA-001 3/2/06	IA-001 3/14/07	IA-002 4/6/05	IA-002 3/2/06	IA-002 3/14/07	IA-003 4/6/05	IA-003 3/2/06	IA-003 3/14/07	IA-004 4/6/05	IA-004 3/2/06	IA-004 3/14/07	IA-005 4/6/05	IA-005 3/2/06	IA-005 3/14/07	IA-006 4/6/05	IA-006 3/2/06	IA-006 3/14/07	OA-001 4/6/05	OA-001 3/2/06	OA-001 3/14/07
2,6-Dichloropyridine		1.63		1.1	4		22	100 U		97	100 U		12	22		0.43 U	50		0.48	960		0.46 U	1.2 U
2-Chloropyridine		1.63		24	24		1500	590		550	950		450	580		4.5	380		10	1200		2.3 U	2.5
1,1,1-Trichloroethane	2200	9636		1.1 U	0.68 U		1.1 U	0.22 U		1.1 U	0.37		1.1 U	0.35		1.1 U	0.11 U		2.7 U	0.68 U		1.1 U	0.68 U
1,1,2,2-Tetrachloroethane	0.042	0.22		1.4 U	1.8 U		1.4 U	0.56 U		1.4 U	0.28 U		1.4 U	0.28 U		1.4 U	0.28 U		3.4 U	1.8 U		1.4 U	1.8 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	30000	131400		1.5 U	2 U		1.5 U	0.64 U		1.5 U	0.55		1.5 U	0.58		1.5 U	0.55		3.8 U	2 U		1.5 U	2 U
1,1,2-Trichloroethane	0.15	0.79		1.1 U	1.3 U		1.1 U	0.4 U		1.1 U	0.2 U		1.1 U	0.2 U		1.1 U	0.2 U		2.7 U	1.3 U		1.1 U	1.3 U
1,1-Dichloroethane	500	2190		0.81 U	1 U		0.81 U	0.32 U		0.81 U	0.16 U		0.81 U	0.16 U		0.81 U	0.16 U		2 U	1 U		0.81 U	1 U
1,1-Dichloroethene	200	876		0.79 U	1 U		0.79 U	0.32 U		0.79 U	0.24		0.79 U	0.16 U		0.79 U	0.16 U		2 U	1 U		0.79 U	1 U
1,2,4-Trichlorobenzene	200	876		3.7 UJ	1.8 U		3.7 UJ	0.56 U		3.7 UJ	0.28 U		3.7 UJ	0.28 U		3.7 UJ	0.28 U		9.6 U	1.8 U		3.7 U	1.8 U
1,2,4-Trimethylbenzene	6.0	26.3		0.98 U	2.9		74	0.4 U		16	2.7		44	4.3		69	29		15	670		1.5	1.3 U
1,2-Dibromoethane	0.011	0.058		1.5 U	2 U		1.5 U	0.64 U		1.5 U	0.32 U		1.5 U	0.32 U		1.5 U	0.32 U		3.8 U	2 U		1.5 U	2 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane				1.4 U	1.8 U		1.4 U	0.56 U		1.4 U	0.28 U		1.4 U	0.28 U		1.4 U	0.28 U		3.5 U	1.8 U		1.4 U	1.8 U
1,2-Dichlorobenzene	200	876		1.2 U	1.5 U		1.2 U	0.48 U		1.2 U	0.24 U		1.2 U	0.24 U		1.2 U	0.24 U		3 U	1.5 U		1.2 U	1.5 U
1,2-Dichloroethane	0.094	0.49	0.16 U	0.81 U	1 U	0.4 U	0.81 U	0.32 U	0.13 U	0.81 U	0.16 U	0.065	0.81 U	0.16 U	0.081 U	0.81 U	0.16 U	0.25 U	2 U	1 U	0.16 U	0.81 U	1 U
1,2-Dichloroethene (total)	--	--	0.16 U	0.79 U		0.4 U	0.79 U		0.13 U	0.79 U		0.04 U	0.79 U		0.079 U	0.79 U		0.25 U	2 U		0.16 U	0.79 U	
1,2-Dichloropropane	4.0	17.5		0.92 U	1.3 U		0.92 U	0.4 U		0.92 U	0.2 U		0.92 U	0.2 U		0.92 U	0.2 U		2.3 U	1.3 U		0.92 U	1.3 U
1,3,5-Trimethylbenzene	6.0	26.3		0.98 U	1.3 U		29	0.4 U		5.9	0.88		17	1.5		25	10		5.9	260		0.98 U	1.3 U
1,3-Dichlorobenzene	110	482		1.2 U	1.5 U		1.2 U	0.48 U		1.2 U	0.24 U		1.2 U	0.24 U		1.2 U	0.24 U		3 U	1.5 U		1.2 U	1.5 U
1,4-Dichlorobenzene	800	3504		1.2 U	1.5 U		1.2 U	0.48 U		1.2 U	0.24 U		1.2 U	0.24 U		1.2 U	0.24 U		3 U	1.5 U		1.2 U	1.5 U
1,4-Dioxane				R			R			R			R			R			47 U			18 U	
2-Butanone	1000	4380		1.5 U	4.3		1.5 U	21		3.8 U	8		1.5 U	94		1.5 U	4.2		3.8 U	52		1.5 U	2.4
2-Chlorotoluene				1 U			1 U			1 U			1 U			1 U			2.6 U			1 U	
2-Hexanone				2 U	1 U		2 U	0.32 U		2 U	0.46		2 U	0.16 U		2 U	0.29		5.3 U	1 U		2 U	1 U
4-Ethyltoluene				0.98 U	1.3 U		88	0.4 U		18	1		54	1.6		59	12		17	290		1.3	1.3 U
4-Methyl-2-pentanone	80	350		2 U	2.5		2 U	1.8		2 U	5.2		2 U	2.4		2 U	1.5		5.3 U	1 U		2 U	1.6
Acetone	350	1533		12 U	33		12 U	64		33	16		36	35		86	33		74	360		12 U	14
Allyl chloride				1.6 U			1.6 U			1.6 U			1.6 U			1.6 U			4.1 U			1.6 U	
Benzene	0.31	1.6	1.9	0.64 U	0.75 U	0.73	0.64 U	0.87	1.1	0.93	1.3	1.5	1.1	1.3	1.6	0.99	1.1	1.5	1.6 U	1.6	1.7	2.4	1.1
Benzyl chloride	0.05	0.3			1.3 U			0.4 U			0.2 U			0.2 U			0.2 U			1.3 U			1.3 U
Bromodichloromethane	0.14	0.74	0.27 U	1.3 U	1.8 U	0.67 U	1.3 U	0.56 U	0.22 U	1.3 U	0.28 U	0.067 U	1.3 U	0.28 U	0.13 U	1.3 U	0.28 U	0.42 U	3.4 U	1.8 U	0.27 U	1.3 U	1.8 U
Bromoform	2.2	11.6	0.41 U	2.1 UJ		1 U	2.1 UJ		0.34 U	2.1 UJ		0.1 U	2.1 UJ		0.21 U	2.1 UJ		0.64 U	5.2 U		0.41 U	2.1 U	
Bromomethane	5.0	21.9		0.78 U	1 U		0.78 U	0.32 U		0.78 U	0.16 U		0.78 U	0.16 U		0.78 U	0.16 U		1.9 U	1 U		0.78 U	1 U
Butadiene, 1,3-	0.0087	0.046		1.1 U	0.5 U		1.1 U	0.16 U		1.1 U	0.08 U		1.1 U	0.08 U		1.1 U	0.08 U		2.9 U	0.5 U		1.1 U	0.5 U
Carbon Disulfide	700	3066	1.6 U	1.6 U	0.75 U	1.6 U	1.6 U	0.4	1.6 U	1.6 U	0.27	1.6 U	1.6 U	0.16	1.6 U	1.6 U	0.12 U	1.6 U	4 U	0.75 U	1.6 U	1.6 U	0.75 U
Carbon Tetrachloride	0.16	0.84	0.63 J	1.3 U	0.78 U	0.69	1.3 UJ	1.2	4.3	5.2 J	4.8	0.69	1.3 UJ	0.55	0.69	1.3 UJ	0.53	0.82	3.1 U	0.78 U	0.57	1.3 U	0.78 U
Chlorobenzene	60	263	0.92 U	0.92 U	1.3 U	6	1.2	0.4 U	0.92 U	0.92 U	0.53	0.92 U	0.92 U	0.2 U	0.92 U	0.92 U	0.2 U	0.92 U	2.3 U	1.3 U	0.92 U	0.92 U	1.3 U
Chlorodibromomethane	0.1	0.53	0.34 U	1.7 U	2.3 U	0.85 U	1.7 U	0.72 U	0.28 U	1.7 U	0.36 U	0.085 U	1.7 U	0.36 U	0.17 U	1.7 U	0.36 U	0.53 U	4.3 U	2.3 U	0.34 U	1.7 U	2.3 U
Chloroethane	10000	43800		0.53 U	1.3 U		0.53 U	0.4 U		0.53 U	0.2 U		0.53 U	0.2 U		0.53 U	0.2 U		1.3 U	1.3 U		0.53 U	1.3 U
Chloroform	0.11	0.58	0.2 U	0.98 U	1.3 U	2.2	15	12	2.7	27	6.3	1.8	35	2.9	0.41	2.5	0.49	0.98	6.3	3.3	0.2 U	0.98 U	2.1
Chloromethane	2.4	12.6	1.4	1 U	0.5 U	1.6	1 U	3.9	1.6	1.5	1	1.2	1.3	1	1.5	1.3	0.97	1.9	2.7 U	0.5 U	1 U	1.4	0.5 U
Cis-1,2-Dichloroethene	35	153		0.79 U	1 U		0.79 U	0.32 U		0.79 U	0.16 U		0.79 U	0.16 U		0.79 U	0.16 U		2 U	1 U		0.79 U	1 U
cis-1,3-Dichloropropene	0.61	3.2		0.91 U	1.3 U		0.91 U	0.4 U		0.91 U	0.2 U		0.91 U	0.2 U		0.91 U	0.2 U		2.3 U	1.3 U		0.91 U	1.3 U
Cyclohexane				0.69 U	0.75 U		0.69 U	0.24 U		0.69 U	0.12 U		0.69 U	0.12 U		0.69 U	0.12 U		1.7 U	0.95		0.69 U	0.75 U
Dichlorodifluoromethane	200	876		2.6 J	1.3 U		2.5 UJ	2.7		4.9 J	2.2		4.9 J	2		4.9 J	0.3		6.4 U	1.3 U		3.4	1.3 U
Ethanol					410			75			61			0.16 U			38			340			33
Ethyl acetate	3200	14016			1.8 U			0.56 U			0.28 U			0.28 U			5.4			1.8 U			1.8 U
Ethylbenzene	2.2	11.6	1.4 J	0.87 U	2.7	30	3.1 U	0.32 U	0.91 J	1 U	2.9	1.2 J	2.6 U	5.7	2.6 J	1.7 U	2.5	6.1 J	2.9 U	6.3	0.61	1.1 U	2.4
Heptane				0.82 U	1.3		0.82 U	0.56		0.82 U	0.38		1.3	1		3.6	4.6		3.2	14		0.86	1 U
Hexachlorobutadiene	0.11	0.58		2.1 UJ	2.8 U		2.1 UJ	0.88 U		2.1 UJ	0.44 U		2.1 UJ	0.44 U		2.1 UJ	0.44 U		5.3 U	2.8 U		2.1 U	2.8 U
Hexane	200	876		1.8 U	1 U		1.8 U	1		1.8 U	1		1.8 U	1.4		1.8 U	2.1		6.3	3.1		2.4	1 U
Isooctane				0.93 U			0.93 U			0.93 U			0.93 U			0.93 U			2.3 U			1.9	
Methyl Tertbutyl Ether	3000	13140		1.8 U	1 U		1.8 U	0.32 U		1.8 U	0.16 U		1.8 U	0.16 U		1.8 U	0.16 U		4.7 U	1 U		1.8 U	1 U
Methylene Chloride	5.2	27.3	5.6 J	1.7 U	1.4	11 J	1.7 U	5.4	5.9 J	1.7	2.1	6.3 J	2.2	2	5.6 J	1.7 U	1.2	25	280	13	5.6 J	1.7 U	3.2
o-Xylene	7000	30660		0.87 U	2.8		0.87 U	0.32 U		0.87 U	3.8		1.4 U	6		1.3 U	2.9		2.2 U	6.3		1.4 U	2.3
Propylene					0.5 U			0.16 U			0.08 U			0.08 U			0.08 U			0.5 U			0.5 U
Styrene	1000	4380		0.85 U	1.2		0.85 U	0.32 U		0.85 U	0.29		0.85 U	0.49		0.85 U	0.43		2.1 U	1 U		0.85 U	1 U
t-Butyl alcohol				15 U			15 U			15 U			15 U			15 U			39 U			15 U	
Tetrachloroethene	0.81	4.3	0.52	1.4 U	0.85 U	2.3	2.3	0.28 U	0.95	1.5	1.1	0.53	1.4 U	0.79	0.6	1.4 U	0.43	0.5	3.4 U	0.85 U	0.36	1.4 U	0.85 U
Tetrahydrofuran				15 U	1.5 U		15 U	28		15 U	12		15 U	100		15 U	0.72		38 U	1.5 U		15 U	1.5 U
Toluene	400	1752	11 J	0.94 U	22	4.1 J	1.5 U	0.32 U	4.9 J	2.5 U	13	3.3 J	3.3 U	21	6 J	7.2 U	14	6.4 J	8.3 U	22	4.5 J	6.4 U	17
trans-1,2-Dichloroethene	70	307		0.79 U	1 U		0.79 U	0.32 U		0.79 U	0.16 U		0.79 U	0.16 U		0.79 U	0.16 U		2 U	1 U		0.79 U	1 U
trans-1,3-Dichloropropene	0.61	3.2		0.91 U	1.3 U		0.91 U	0.4 U		0.91 U	0.2 U		0.91 U	0.2 U		0.91 U	0.2 U		2.3 U	1.3 U		0.91 U	1.3 U
Trichloroethene	0.022	0.12	0.41	1.1 U	0.68 U	0.54 U	1.1 U	0.22 U	0.7	1.1 U	0.11 U	0.32	1.1 U	0.3	0.33	1.1 U	0.11 U	0.49	2.7 U	0.68 U	0.21 U	1.1 U	0.68 U
Trichlorofluoromethane	700	3066		3.9	11		1.1 U	1.8		2	1.6		2.1	1.6		2.5	1.9		2.8 U	2.7		1.7	1.5
Vinyl acetate	200	876			1 U			0.32 U			0.16 U			1.8			1.4			1 U			1 U
Vinyl bromide				0.87 U			0.87 U			0.87 U			0.87 U			0.87 U			2.2 U			0.87 U	
Vinyl Chloride	0.28	1.5	0.1 U	0.51 U	0.75 U	0.26 U	0.51 U	0.24 U	0.084 U	0.51 U	0.12 U	0.026 U	0.51 U	0.12 U	0.051 U	0.51 U	0.12 U	0.16 U	1.3 U	0.75 U	0.1 U	0.51 U	0.75 U
Xylene, m/p	7000	30660		2.2 U	8.9		2.5 U	0.32 U		2.2 U	12		4.8 U	19		4.8 U	8.7		5.6 U	15		3.7 U	7.7
Xylenes, Total	7000	30660		0.87 U			2.6 U			0.87 U			6.5 U			6.1 U			2.2 U			5.2 U	

Generic Indoor Air Screening Values are taken from Table 2c of the EPA Vapor Intrusion Guidance (EPA, 2002) and are based on a target cancer risk of 1E-06 and a target hazard index of 1 for residential exposures to indoor air.

Generic Soil Gas Screening Values are taken from Table 2c of the EPA Vapor Intrusion Guidance, and are based on an attenuation factor of 0.1 and a target cancer risk of 1E-06 and a target hazard index of 1 for migration of soil gas to residences with basements and subsequent residential exposures to indoor air.

The Commercial/Industrial indoor air and soil gas screening values were derived by adjusting the generic (residential-based) values for exposure time, exposure frequency, and exposure duration applicable to full-time occupational exposures, as follows:

For risk-based values based on cancer risk, the adjustment to an exposure of 8-hours per day, 250 days per year, for 25 years is: (24/8) x (365/250) x (30/25) = 5.25

For risk-based values based on non-cancer risk, the adjustemtn to an exposrue of 8-hours per day, 250 days per year is: (24/8) x (365/250) = 4.38

The values for 2-chloropyridine and 2,6-dichloropyridine are derived using a unit risk value of 6.2E-06 (Arch, January 2005) and commercial/industrial parameters (8 hours per day, 250 days per year, 25 years).

Shading indicates that a detected concentration exceeds the Commercial/Industrial risk-based value

-- - Not applicable: constituent not detected at a concentration greater than screening value.

EPA, 2002. Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils. OSWER. November 29, 2002.

Prepared by: KJC
Checked by: JHP
6/21/2007

Table 1
Comparison of Indoor Air and Soil Gas Data (µg/m³) to Risk-Based Screening Levels

	Risk-Based Screening Values		Soil Gas Samples																	
			office			production area						production area (cont)			warehouse					
	Soil Gas Generic (Residential)	Soil Gas Commercial/ Industrial	SG-188 (IA-001) 4/6/05	SG-188 (IA-001) 3/2/06	SG-188 (IA-001) 3/14/07	SG-189 (IA-002) 4/6/05	SG-189 (IA-002) 3/2/06	SG-189 (IA-002) 3/14/07	SG-190 (IA-003) 4/6/05	SG-190 (IA-003) 3/2/06	SG-190 (IA-003) 3/14/07	SG-191 (IA-004) 4/6/05	SG-191 (IA-004) 3/2/06	SG-191 (IA-004) 3/14/07	SG-192 (IA-005) 4/6/05	SG-192 (IA-005) 3/2/06	SG-192 (IA-005) 3/14/07	SG-193 (IA-006) 4/6/05	SG-193 (IA-006) 3/2/06	SG-193 (IA-006) 3/14/07
2,6-Dichloropyridine		16.3		0.43 U	10 U		26	110		5300	220		8	10 U		1.9	31		0.72	9.1
2-Chloropyridine		16.3		13	34		460	700		360000	920		270	26		40	420		13	1000
1,1,1-Trichloroethane	22000	96360		1.1 U	5.4 U		1700 U	54 U		65 U	5.4 U		440 U	5.4 U		1.1 U	0.54 U		1.1 U	0.68 U
1,1,2,2-Tetrachloroethane	0.42	2.2		1.4 U	14 U		2200 U	180		82 U	14 U		550 U	14 U		1.4 U	1.4 U		1.4 U	1.8 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	300000	1314000		1.5 U	16 U		2500 U	160 U		92 U	16 U		610 U	16 U		1.5 U	1.6 U		1.5 U	2 U
1,1,2-Trichloroethane	1.5	7.9		1.1 U	10 U		1700 U	100 U		65 U	10 U		440 U	10 U		1.1 U	1 U		1.1 U	1.3 U
1,1-Dichloroethane	5000	21900		0.81 U	8 U		1300 U	80 U		49 U	8 U		320 U	8 U		0.81 U	0.8 U		0.81 U	1 U
1,1-Dichloroethene	2000	8760		0.79 U	8 U		1500	80 U		83	110		320 U	8 U		0.79 U	0.8 U		0.79 U	1 U
1,2,4-Trichlorobenzene	2000	8760		3.7 UJ	14 U		5900 U	140 U		220 U	14 U		1500 U	14 U		3.7 UJ	1.4 U		3.7 U	1.8 U
1,2,4-Trimethylbenzene	60	263		0.98 U	10 U		1600 U	100 U		59 U	10 U		390 U	10 U		9.8	18		4.1	40
1,2-Dibromoethane	0.11	0.58		1.5 U	16 U		2500 U	160 U		92 U	16 U		610 U	16 U		1.5 U	1.6 U		1.5 U	2 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane				1.4 U	14 U		2200 U	140 U		84 U	14 U		560 U	14 U		1.4 U	1.4 U		1.4 U	1.8 U
1,2-Dichlorobenzene	2000	8760		1.2 U	12 U		1900 U	120 U		72 U	12 U		480 U	12 U		1.2 U	1.2 U		1.2 U	1.5 U
1,2-Dichloroethane	0.94	4.9	0.81 U	0.81 U	8 U	8100 U	1300 U	80 U	81 U	49 U	8 U	400 U	320 U	19	0.81 U	0.81 U	0.8 U	0.81 U	0.81 U	1 U
1,2-Dichloroethene (total)	--	--	0.79 U	0.79 U		7900 U	1300 U		79 U	48 U		400 U	320 U		0.79 U	0.79 U		0.79 U	0.79 U	
1,2-Dichloropropane	40	175		0.92 U	10 U		1500 U	100 U		55 U	10 U		370 U	10 U		0.92 U	1 U		0.92 U	1.3 U
1,3,5-Trimethylbenzene	60	263		0.98 U	10 U		1600 U	100 U		59 U	10 U		390 U	10 U		3.5	6.2		1.3	19
1,3-Dichlorobenzene	1100	4818		1.2 U	12 U		1900 U	120 U		72 U	12 U		480 U	12 U		1.2 U	1.2 U		1.2 U	1.5 U
1,4-Dichlorobenzene	8000	35040		1.2 U	12 U		1900 U	120 U		72 U	12 U		480 U	12 U		1.2 U	1.2 U		1.2 U	1.5 U
1,4-Dioxane				R			29000 U			1100 U			7200 U			R			18 U	
2-Butanone	10000	43800		1.5 U	6 U		2400 U	60 U		88 U	92		590 U	6 U		1.6 U	2.8		1.8 U	5.8
2-Chlorotoluene				1 U			1700 U			62 U			410 U			1 U			1 U	
2-Hexanone				2 U	8 U		3300 U	80 U		120 U	8 U		820 U	8 U		2 U	0.8 U		2 U	1 U
4-Ethyltoluene				0.98 UJ	10 U		1600 U	100 U		59 U	10 U		390 U	10 U		8.8	7.2		4.6	26
4-Methyl-2-pentanone	800	3504		2 U	8 U		3300 U	80 U		120 U	8 U		820 U	8 U		2 U	0.8 U		2 U	1 U
Acetone	3500	15330		12 UJ	4 U		19000 U	40 U		710 U	76		4800 U	46		12 U	94		12 U	170
Allyl chloride				1.6 U			2500 U			94 U			630 U			1.6 U			1.6 U	
Benzene	3.1	16	1.5	0.64 U	6 U	6400 U	1000 U	1500	210	93	130	320 U	260 U	6 U	2.4	0.64 U	0.64	0.73	0.64 U	0.75 U
Benzyl chloride	0.5	3			10 U			100 U			10 U			10 U			1 U			1.3 U
Bromodichloromethane	1.4	7.4	1.3 U	1.3 U	14 U	13000 U	2100 U	140 U	130 U	80 U	14 U	670 U	540 U	120	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U	1.8 U
Bromoform	22	116	2.1 U	2.1 UJ		21000 U	3300 U		210 U	120 U		1000 U	830 U		2.1 U	2.1 UJ		2.1 U	2.1 U	
Bromomethane	50	219		0.78 U	8 U		1200 U	80 U		47 U	8 U		310 U	8 U		0.78 U	0.8 U		0.78 U	1 U
Butadiene, 1,3-	0.087	0.46		1.1 U	4 U		1800 U	40 U		66 U	4 U		440 U	4 U		1.1 U	0.4 U		1.1 U	0.5 U
Carbon Disulfide	7000	30660	5.6 J	1.6 U	6 U	50000	2500 U	330	160 U	170	42	1000	620	6 U	4.4 J	1.6 U	0.6 U	3.7 J	1.6 U	0.75 U
Carbon Tetrachloride	1.6	8.4	1.3 U	1.3 UJ	6.2 U	13000 U	2000 U	62 U	8800	4300	230	630 U	500 U	200	1.8	1.3 J	0.62 U	1.3 U	1.3 U	0.78 U
Chlorobenzene	600	2628	0.92 U	0.92 U	10 U	9200 U	1500 U	270	830	1000	1000	460 U	370 U	10 U	0.92 U	0.92 U	1 U	0.92 U	0.92 U	1.3 U
Chlorodibromomethane	1.0	5.3	1.7 U	1.7 U	18 U	17000 U	2700 U	180 U	170 U	100 U	18 U	850 U	680 U	18 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	2.3 U
Chloroethane	100000	438000		0.53 U	10 U		840 U	550		32 U	10 U		210 U	10 U		0.53 U	1 U		3.2	1.3 U
Chloroform	1.1	5.8	1.4	0.98 U	10 U	980000	250000	470000	18000	8800	4900	73000	42000	51000	0.98 U	0.98 U	1.3	0.98 U	1	1.3 U
Chloromethane	24	126	1 U	1 U	4 U	10000 U	1700 U	78	100 U	62 U	4 U	520 U	410 U	4 U	2.9	1 U	0.4 U	1 U	1 U	0.5 U
Cis-1,2-Dichloroethene	350	1533		0.79 U	8 U		1300 U	80 U		48 U	14		320 U	8 U		0.79 U	0.8 U		0.79 U	1 U
cis-1,3-Dichloropropene	6.1	32.0		0.91 U	10 U		1500 U	100 U		54 U	10 U		360 U	10 U		0.91 U	1 U		0.91 U	1.3 U
Cyclohexane				0.69 U	6 U		130000	150000		93	6 U		280 U	6 U		0.69 U	0.6 U		0.69 U	3.9
Dichlorodifluoromethane	2000	8760		2.5 UJ	10 U		4000 U	100 U		150 U	10 U		990 U	10 U		5.4 J	1 U		3	1.3 U
Ethanol					8 U			1500			8 U			8 U			0.8 U			1 U
Ethyl acetate	32000	140160			14 U			140 U			14 U			14 U			1.4 U			1.8 U
Ethylbenzene	22	116	3.3 J	0.87 U	8 U	8700 U	1400 U	110	87 U	52 U	10	430 U	350 U	8 U	6.1 J	1.1 U	5.1	6.9 J	1.5 U	6.5
Heptane				0.82 U	8 U		2000	1400		49 U	24		330 U	14		0.82 U	5.1		0.82 U	9.7
Hexachlorobutadiene	1.1	5.8		2.1 UJ	22 U		3400 U	220 U		130 U	22 U		850 U	22 U		2.1 UJ	2.2 U		2.1 U	2.8 U
Hexane	2000	8760		1.8 U	8 U		35000	48000		110 U	49		700 U	8 U		1.8 U	1.9		1.8 U	1 U
Isooctane				0.93 UJ			1500 U			56 U			370 U			0.93 U			0.93 U	
Methyl Tertbutyl Ether	30000	131400		1.8 U	8 U		2900 U	80 U		110 U	8 U		720 U	8 U		1.8 U	0.8 U		1.8 U	1 U
Methylene Chloride	52	273	1.7 U	1.7 U	10	130000	5900	7600	520	110	92	2700	690 U	6 U	1.7 U	1.7 U	1.1	1.7 U	19	0.75 U
o-Xylene	70000	306600		0.87 U	8 U		1400 U	80 U		52 U	8 U		350 U	8 U		1 U	5.8		1.3 U	8.3
Propylene					4 U			40 U			4 U			4 U			0.4 U			0.5 U
Styrene	10000	43800		0.85 U	8 U		1400 U	80 U		51 U	8 U		340 U	8 U		0.85 U	0.8 U		0.85 U	1 U
t-Butyl alcohol				15 U			24000 U			910 U			6100 U			15 U			15 U	
Tetrachloroethene	8.1	43	1.4 U	1.4 U	6.8 U	88000	21000	9000	6300	5600	3200	1600	540 U	140	6.5	3.3	1.8	1.4 U	1.4 U	0.85 U
Tetrahydrofuran				15 U	12 U		24000 U	120 U		880 U	12 U		5900 U	12 U		15 U	1.2 U		15 U	1.5 U
Toluene	4000	17520	45 J	1.5 U	8 U	57000	9400 U	8100	410	240 U	220	720	1100 U	8 U	68 J	3.8 U	8.2	49 J	6 U	6.2
trans-1,2-Dichloroethene	700	3066		0.79 U	8 U		1300 U	80 U		48 U	8 U		320 U	8 U		0.79 U	0.8 U		0.79 U	1 U
trans-1,3-Dichloropropene	6.1	32.0		0.91 U	10 U		1500 U	100 U		54 U	10 U		360 U	10 U		0.91 U	1 U		0.91 U	1.3 U
Trichloroethene	0.22	1.2	1.1 U	7 J	5.4 U	11000 U	3400	4000	160	170	98	540 U	430 U	180	1.1 U	1.1 U	0.54 U	1.1 U	1.1 U	0.68 U
Trichlorofluoromethane	7000	30660		3.8 J	12 U		1900	120 U		67 U	12 U		450 U	12 U		2.1	2		1.7	1.7
Vinyl acetate	2000	8760			8 U			80 U			13			8 U			0.8 U			1 U
Vinyl bromide				0.87 U			1400 U			52 U			350 U			0.87 U			0.87 U	
Vinyl Chloride	2.8	14.7	0.51 U	0.51 U	6 U	5100 U	1400	2200	89	38	56	260 U	200 U	6 U	0.51 U	0.51 U	0.6 U	0.51 U	0.51 U	0.75 U
Xylene, m/p	70000	306600		2.2 U	8 U		3500 U	190		130 U	26		870 U	14		3.5 U	18		4 U	27
Xylenes, Total	70000	306600		0.87 U			1400 U			52 U			350 U			4.8 U			5.2 U	

Generic Indoor Air Screening Values are taken from Table 2c of the EPA Vapor Intrusion Guidance (EPA, 2002) and are based on a target cancer risk of 1E-06 and a target hazard index of 1 for residential exposures to indoor air.

Generic Soil Gas Screening Values are taken from Table 2c of the EPA Vapor Intrusion Guidance, and are based on an attenuation factor of 0.1 and a target cancer risk of 1E-06 and a target hazard index of 1 for migration of soil gas to residences with basements and subsequent residential exposures to indoor air.

The Commercial/Industrial indoor air and soil gas screening values were derived by adjusting the generic (residential-based) values for exposure time, exposure frequency, and exposure duration applicable to full-time occupational exposures, as follows:

For risk-based values based on cancer risk, the adjustment to an exposure of 8-hours per day, 250 days per year, for 25 years is: (24/8) x (365/250) x (30/25) = 5.25

For risk-based values based on non-cancer risk, the adjustemtn to an exposrue of 8-hours per day, 250 days per year is: (24/8) x (365/250) = 4.38

The values for 2-chloropyridine and 2,6-dichloropyridine are derived using a unit risk value of 6.2E-06 (Arch, January 2005) and commercial/industrial parameters (8 hours per day, 250 days per year, 25 years).

Shading indicates that a detected concentration exceeds the Commercial/Industrial risk-based value

-- - Not applicable: constituent not detected at a concentration greater than screening value.

EPA, 2002. Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils. OSWER. November 29, 2002.

Prepared by: KJC
Checked by: JHP
6/21/2007

Table 2
Pathway Completeness and Risk Analysis
Office

		Air Samples			Soil Gas Samples			Outdoor Air										
		IA-001 4/6/05	IA-001 3/2/06	IA-001 3/14/07	SG-188 (IA-001) 4/6/05	SG-188 (IA-001) 3/2/06	SG-188 (IA-001) 3/14/07	OA-001 4/6/05	OA-001 3/2/06	OA-001 3/14/07	Published Background	NYSDOH Air Guideline	Detected in Indoor Air?		Average Indoor Air > Outdoor Air?	Average Indoor Air > Published Background or NYSDOH Guideline?	Detected in Soil Gas?	Pathway Potentially Complete?	Pathway Potentially Complete & Indoor Air > Higest of Background, Air Guideline, and Risk-Based Value?
2,6-Dichloropyridine	ug/m3		1.1	4		0.43 U	10 U		0.46 U	1.2 U			Y		Y	--	N	N	
2-Chloropyridine	ug/m3		24	24		13	34		2.3 U	2.5			Y		Y	--	Y	Y	Y
1,1,1-Trichloroethane	ug/m3		1.1 U	0.68 U		1.1 U	5.4 U		1.1 U	0.68 U	<0.25 - 1.4		N				N	N	
1,1,2,2-Tetrachloroethane	ug/m3		1.4 U	1.8 U		1.4 U	14 U		1.4 U	1.8 U	<0.25		N				N	N	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3		1.5 U	2 U		1.5 U	16 U		1.5 U	2 U			N				N	N	
1,1,2-Trichloroethane	ug/m3		1.1 U	1.3 U		1.1 U	10 U		1.1 U	1.3 U	<0.25		N				N	N	
1,1-Dichloroethane	ug/m3		0.81 U	1 U		0.81 U	8 U		0.81 U	1 U	<0.25		N				N	N	
1,1-Dichloroethene	ug/m3		0.79 U	1 U		0.79 U	8 U		0.79 U	1 U	<0.25		N				N	N	
1,2,4-Trichlorobenzene	ug/m3		3.7 UJ	1.8 U		3.7 UJ	14 U		3.7 U	1.8 U			N				N	N	
1,2,4-Trimethylbenzene	ug/m3		0.98 U	2.9		0.98 U	10 U		1.5	1.3 U	0.78 - 4.4		**Y**		Y	N	N	N	
1,2-Dibromoethane	ug/m3		1.5 U	2 U		1.5 U	16 U		1.5 U	2 U	<0.25		N				N	N	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3		1.4 U	1.8 U		1.4 U	14 U		1.4 U	1.8 U			N				N	N	
1,2-Dichlorobenzene	ug/m3		1.2 U	1.5 U		1.2 U	12 U		1.2 U	1.5 U	<0.25		N				N	N	
1,2-Dichloroethane	ug/m3	0.16 U	0.81 U	1 U	0.81 U	0.81 U	8 U	0.16 U	0.81 U	1 U	<0.25		N				N	N	
1,2-Dichloroethene (total)	ug/m3	0.16 U	0.79 U		0.79 U	0.79 U		0.16 U	0.79 U				N				N	N	
1,2-Dichloropropane	ug/m3		0.92 U	1.3 U		0.92 U	10 U		0.92 U	1.3 U	<0.25		N				N	N	
1,3,5-Trimethylbenzene	ug/m3		0.98 U	1.3 U		0.98 U	10 U		0.98 U	1.3 U	<0.25 - 1.7		N				N	N	
1,3-Dichlorobenzene	ug/m3		1.2 U	1.5 U		1.2 U	12 U		1.2 U	1.5 U	<0.25		N				N	N	
1,4-Dichlorobenzene	ug/m3		1.2 U	1.5 U		1.2 U	12 U		1.2 U	1.5 U			N				N	N	
1,4-Dioxane	ug/m3		R			R			18 U				N				N	N	
2-Butanone	ug/m3		1.5 U	4.3		1.5 U	6 U		1.5 U	2.4			**Y**		Y	--	N	N	
2-Chlorotoluene	ug/m3		1 U			1 U			1 U				N				N	N	
2-Hexanone	ug/m3		2 U	1 U		2 U	8 U		2 U	1 U			N				N	N	
4-Ethyltoluene	ug/m3		0.98 U	1.3 U		0.98 UJ	10 U		1.3	1.3 U			N				N	N	
4-Methyl-2-pentanone	ug/m3		2 U	2.5		2 U	8 U		2 U	1.6			**Y**		Y	--	N	N	
Acetone	ug/m3		12 U	33		12 UJ	4 U		12 U	14	10 - 46		**Y**		Y	N	N	N	
Allyl chloride	ug/m3		1.6 U			1.6 U			1.6 U				N				N	N	
Benzene	ug/m3	1.9	0.64 U	0.75 U	1.5	0.64 U	6 U	1.7	2.4	1.1	1.2 - 5.7		*Y*		N	N	*Y*	N	
Benzyl chloride	ug/m3			1.3 U			10 U			1.3 U			N				N	N	
Bromodichloromethane	ug/m3	0.27 U	1.3 U	1.8 U	1.3 U	1.3 U	14 U	0.27 U	1.3 U	1.8 U			N				N	N	
Bromoform	ug/m3	0.41 U	2.1 UJ		2.1 U	2.1 UJ		0.41 U	2.1 U				N				N	N	
Bromomethane	ug/m3		0.78 U	1 U		0.78 U	8 U		0.78 U	1 U	<0.25		N				N	N	
Butadiene, 1,3-	ug/m3		1.1 U	0.5 U		1.1 U	4 U		1.1 U	0.5 U			N				N	N	
Carbon Disulfide	ug/m3	1.6 U	1.6 U	0.75 U	5.6 J	1.6 U	6 U	1.6 U	1.6 U	0.75 U			N				*Y*	N	
Carbon Tetrachloride	ug/m3	0.63 J	1.3 U	0.78 U	1.3 U	1.3 UJ	6.2 U	0.57	1.3 U	0.78 U	<0.25 - 0.68		*Y*		Y	N	N	N	
Chlorobenzene	ug/m3	0.92 U	0.92 U	1.3 U	0.92 U	0.92 U	10 U	0.92 U	0.92 U	1.3 U	<0.25		N				N	N	
Chlorodibromomethane	ug/m3	0.34 U	1.7 U	2.3 U	1.7 U	1.7 U	18 U	0.34 U	1.7 U	2.3 U			N				N	N	
Chloroethane	ug/m3		0.53 U	1.3 U		0.53 U	10 U		0.53 U	1.3 U			N				N	N	
Chloroform	ug/m3	0.2 U	0.98 U	1.3 U	1.4	0.98 U	10 U	0.2 U	0.98 U	2.1	<0.25 - 0.54		N				*Y*	N	
Chloromethane	ug/m3	1.4	1 U	0.5 U	1 U	1 U	4 U	1 U	1.4	0.5 U	<0.25 - 2.0		*Y*		N	N	N	N	
Cis-1,2-Dichloroethene	ug/m3		0.79 U	1 U		0.79 U	8 U		0.79 U	1 U	<0.25		N				N	N	
cis-1,3-Dichloropropene	ug/m3		0.91 U	1.3 U		0.91 U	10 U		0.91 U	1.3 U			N				N	N	
Cyclohexane	ug/m3		0.69 U	0.75 U		0.69 U	6 U		0.69 U	0.75 U			N				N	N	
Dichlorodifluoromethane	ug/m3		2.6 J	1.3 U		2.5 UJ	10 U		3.4	1.3 U			*Y*		N	--	N	N	
Ethylbenzene	ug/m3	1.4 J	0.87 U	2.7	3.3 J	0.87 U	8 U	0.61	1.1 U	2.4	0.43 - 2.8		Y		Y	N	N	N	
Ethanol	ug/m3			410			8 U			33			Y		Y	--	N	N	
Ethyl acetate	ug/m3			1.8 U			14 U			1.8 U			Y		N	--	N	N	
Heptane	ug/m3		0.82 U	1.3		0.82 U	8 U		0.86	1 U			**Y**		Y	--	N	N	
Hexachlorobutadiene	ug/m3		2.1 UJ	2.8 U		2.1 UJ	22 U		2.1 U	2.8 U			N				N	N	
Hexane	ug/m3		1.8 U	1 U		1.8 U	8 U		2.4	1 U	0.63 - 6.5		N				N	N	
Isooctane	ug/m3		0.93 U			0.93 UJ			1.9				N				N	N	
Methyl Tertbutyl Ether	ug/m3		1.8 U	1 U		1.8 U	8 U		1.8 U	1 U	<0.25 - 6.7		N				N	N	
Methylene Chloride	ug/m3	5.6 J	1.7 U	1.4	1.7 U	1.7 U	10	5.6 J	1.7 U	3.2	0.38 - 6.3	60	Y		N	N	**Y**	**Y**	N
o-Xylene	ug/m3		0.87 U	2.8		0.87 U	8 U		1.4 U	2.3	0.39 - 3.1		**Y**		Y	N	N	N	
Propylene	ug/m3			0.5 U			4 U			0.5 U			N				N	N	
Styrene	ug/m3		0.85 U	1.2		0.85 U	8 U		0.85 U	1 U	<0.25 - 0.68		**Y**		Y	Y	N	N	
t-Butyl alcohol	ug/m3		15 U			15 U			15 U				N				N	N	
Tetrachloroethene	ug/m3	0.52	1.4 U	0.85 U	1.4 U	1.4 U	6.8 U	0.36	1.4 U	0.85 U	<0.25 - 1.2	100	*Y*		Y	N	N	N	

Prepared by: KJC
Checked by: JHP
6/21/2007

Table 2
Pathway Completeness and Risk Analysis
Office

		Air Samples			Soil Gas Samples			Outdoor Air										
		IA-001 4/6/05	IA-001 3/2/06	IA-001 3/14/07	SG-188 (IA-001) 4/6/05	SG-188 (IA-001) 3/2/06	SG-188 (IA-001) 3/14/07	OA-001 4/6/05	OA-001 3/2/06	OA-001 3/14/07	Published Background	NYSDOH Air Guideline	Detected in Indoor Air?		Average Indoor Air > Outdoor Air?	Average Indoor Air > Published Background or NYSDOH Guideline?	Detected in Soil Gas?	Pathway Potentially Complete?	Pathway Potentially Complete & Indoor Air > Higest of Background, Air Guideline, and Risk-Based Value?
Tetrahydrofuran	ug/m3		15 U	1.5 U		15 U	12 U		15 U	1.5 U			N				N	N	
Toluene	ug/m3	11 J	0.94 U	22	45 J	1.5 U	8 U	4.5 J	6.4 U	17	4.2 - 25		Y		Y	N	*Y*	N	
trans-1,2-Dichloroethene	ug/m3		0.79 U	1 U		0.79 U	8 U		0.79 U	1 U			N				N	N	
trans-1,3-Dichloropropene	ug/m3		0.91 U	1.3 U		0.91 U	10 U		0.91 U	1.3 U			N				N	N	
Trichloroethene	ug/m3	0.41	1.1 U	0.68 U	1.1 U	7 J	5.4 U	0.21 U	1.1 U	0.68 U	<0.25	5	*Y*		Y	N	*Y*	N	
Trichlorofluoromethane	ug/m3		3.9	11		3.8 J	12 U		1.7	1.5			Y		Y	--	*Y*	**N**	
Vinyl acetate	ug/m3			1 U			8 U			1 U			N				N	N	
Vinyl bromide	ug/m3		0.87 U			0.87 U			0.87 U				N				N	N	
Vinyl Chloride	ug/m3	0.1 U	0.51 U	0.75 U	0.51 U	0.51 U	6 U	0.1 U	0.51 U	0.75 U	<0.25		N				N	N	
Xylene, m/p	ug/m3		2.2 U	8.9		2.2 U	8 U		3.7 U	7.7			**Y**		Y	--	N	N	
Xylenes, Total	ug/m3		0.87 U			0.87 U			5.2 U				N				N	N	
																	Excess Lifetime Cancer Risk [a]		1E-05	[b]
																	Hazard Index [a]		0.5	[b]

Notes:
Shaded values in Indoor Air, Soil Gas, or Outdoor Air indicate that the detected concentration exceeded the commercial/industrial risk-based value presented in Table 1.
Published Background is the NYSDOH background data base for homes in NYS (1997 - 2003) (NYSDOH, 2005)
The NYSDOH Guideline value is the Air Guideline Value (NYSDOH, 2005)
NYSDOH, 2005: Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Public Comment Draft. February, 2005
Pathway is potentially complete if a constituent was detected in both soil gas and indoor air during the most recent sampling round.
[a] Risks are calculated in Attachment A and are based on full-time commercial/industrial worker exposures.
[b] Risks for constituents detected in indoor air are calculated for each constituent denoted with a "Y" and summed to yield total cancer risk and hazard index values.
[c] - Risks for constituents detected in indoor air that are not associated with facility operations (i.e., risks are calculated for each constiituent denoted with a "N").
Y - Yes; values that are bolded represent new findings as of the most recent sampling round; values that are italicized represent findings based on previous sampling rounds
N - No; values that are bolded represent new findings as of the most recent sampling round; values that are italicized represent findings based on previous sampling rounds
-- Not applicable

Prepared by: KJC
Checked by: JHP
6/21/2007

Table 3
Pathway Completeness and Risk Analysis
Warehouse Area

		Air Samples						Soil Gas Samples						Outdoor Air										
		IA-005 4/6/05	IA-005 3/2/06	IA-005 3/14/07	IA-006 4/6/05	IA-006 3/2/06	IA-006 3/14/07	SG-192 (IA-005) 4/6/05	SG-192 (IA-005) 3/2/06	SG-192 (IA-005) 3/14/07	SG-193 (IA-006) 4/6/05	SG-193 (IA-006) 3/2/06	SG-193 (IA-006) 3/14/07	OA-001 4/6/05	OA-001 3/2/06	OA-001 3/14/07	Published Background	NYSDOH Air Guideline	Detected in Indoor Air?		Average Indoor Air > Outdoor Air?	Average Indoor Air > Published Background or NYSDOH Guideline?	Detected in Soil Gas?	Pathway Potentially Complete?	Pathway Potentially Complete & Indoor Air > Higest of Background, Air Guideline, and Risk-Based Value?
2,6-Dichloropyridine	ug/m3		0.43 U	50		0.48	960		1.9	31		0.72	9.1		0.46 U	1.2 U			Y		Y	--	Y	Y	Y
2-Chloropyridine	ug/m3		4.5	380		10	1200		40	420		13	1000		2.3 U	2.5			Y		Y	--	Y	Y	Y
1,1,1-Trichloroethane	ug/m3		1.1 U	0.11 U		2.7 U	0.68 U		1.1 U	0.54 U		1.1 U	0.68 U		1.1 U	0.68 U	<0.25 - 1.4		N				N	N	
1,1,2,2-Tetrachloroethane	ug/m3		1.4 U	0.28 U		3.4 U	1.8 U		1.4 U	1.4 U		1.4 U	1.8 U		1.4 U	1.8 U	<0.25		N				N	N	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3		1.5 U	0.55		3.8 U	2 U		1.5 U	1.6 U		1.5 U	2 U		1.5 U	2 U			**Y**		Y	--	N	N	
1,1,2-Trichloroethane	ug/m3		1.1 U	0.2 U		2.7 U	1.3 U		1.1 U	1 U		1.1 U	1.3 U		1.1 U	1.3 U	<0.25		N				N	N	
1,1-Dichloroethane	ug/m3		0.81 U	0.16 U		2 U	1 U		0.81 U	0.8 U		0.81 U	1 U		0.81 U	1 U	<0.25		N				N	N	
1,1-Dichloroethene	ug/m3		0.79 U	0.16 U		2 U	1 U		0.79 U	0.8 U		0.79 U	1 U		0.79 U	1 U	<0.25		N				N	N	
1,2,4-Trichlorobenzene	ug/m3		3.7 UJ	0.28 U		9.6 U	1.8 U		3.7 UJ	1.4 U		3.7 U	1.8 U		3.7 U	1.8 U			N				N	N	
1,2,4-Trimethylbenzene	ug/m3		69	29		15	670		9.8	18		4.1	40		1.5	1.3 U	0.78 - 4.4		Y		Y	Y	Y	Y	Y
1,2-Dibromoethane	ug/m3		1.5 U	0.32 U		3.8 U	2 U		1.5 U	1.6 U		1.5 U	2 U		1.5 U	2 U	<0.25		N				N	N	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3		1.4 U	0.28 U		3.5 U	1.8 U		1.4 U	1.4 U		1.4 U	1.8 U		1.4 U	1.8 U			N				N	N	
1,2-Dichlorobenzene	ug/m3		1.2 U	0.24 U		3 U	1.5 U		1.2 U	1.2 U		1.2 U	1.5 U		1.2 U	1.5 U	<0.25		N				N	N	
1,2-Dichloroethane	ug/m3	0.081 U	0.81 U	0.16 U	0.25 U	2 U	1 U	0.81 U	0.81 U	0.8 U	0.81 U	0.81 U	1 U	0.16 U	0.81 U	1 U	<0.25		N				N	N	
1,2-Dichloroethene (total)	ug/m3	0.079 U	0.79 U		0.25 U	2 U		0.79 U	0.79 U		0.79 U	0.79 U		0.16 U	0.79 U				N				N	N	
1,2-Dichloropropane	ug/m3		0.92 U	0.2 U		2.3 U	1.3 U		0.92 U	1 U		0.92 U	1.3 U		0.92 U	1.3 U	<0.25		N				N	N	
1,3,5-Trimethylbenzene	ug/m3		25	10		5.9	260		3.5	6.2		1.3	19		0.98 U	1.3 U	<0.25 - 1.7		Y		Y	Y	Y	Y	Y
1,3-Dichlorobenzene	ug/m3		1.2 U	0.24 U		3 U	1.5 U		1.2 U	1.2 U		1.2 U	1.5 U		1.2 U	1.5 U	<0.25		N				N	N	
1,4-Dichlorobenzene	ug/m3		1.2 U	0.24 U		3 U	1.5 U		1.2 U	1.2 U		1.2 U	1.5 U		1.2 U	1.5 U			N				N	N	
1,4-Dioxane	ug/m3		R			47 U			R			18 U			18 U				N				N	N	
2-Butanone	ug/m3		1.5 U	4.2		3.8 U	52		1.6 U	2.8		1.8 U	5.8		1.5 U	2.4			**Y**		Y	--	**Y**	**Y**	N
2-Chlorotoluene	ug/m3		1 U			2.6 U			1 U			1 U			1 U				N				N	N	
2-Hexanone	ug/m3		2 U	0.29		5.3 U	1 U		2 U	0.8 U		2 U	1 U		2 U	1 U			**Y**		Y	--	N	N	
4-Ethyltoluene	ug/m3		59	12		17	290		8.8	7.2		4.6	26		1.3	1.3 U			Y		Y	--	Y	Y	Y
4-Methyl-2-pentanone	ug/m3		2 U	1.5		5.3 U	1 U		2 U	0.8 U		2 U	1 U		2 U	1.6			**Y**		Y	--	N	N	
Acetone	ug/m3		86	33		74	360		12 U	94		12 U	170		12 U	14	10 - 46		Y		Y	Y	**Y**	**Y**	N
Allyl chloride	ug/m3		1.6 U			4.1 U			1.6 U			1.6 U			1.6 U				N				N	N	
Benzene	ug/m3	1.6	0.99	1.1	1.5	1.6 U	1.6	2.4	0.64 U	0.64	0.73	0.64 U	0.75 U	1.7	2.4	1.1	1.2 - 5.7		Y		**N**	N	Y	Y	N
Benzyl chloride	ug/m3			0.2 U			1.3 U			1 U			1.3 U			1.3 U			N				N	N	
Bromodichloromethane	ug/m3	0.13 U	1.3 U	0.28 U	0.42 U	3.4 U	1.8 U	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U	1.8 U	0.27 U	1.3 U	1.8 U			N				N	N	
Bromoform	ug/m3	0.21 U	2.1 UJ		0.64 U	5.2 U		2.1 U	2.1 UJ		2.1 U	2.1 U		0.41 U	2.1 U				N				N	N	
Bromomethane	ug/m3		0.78 U	0.16 U		1.9 U	1 U		0.78 U	0.8 U		0.78 U	1 U		0.78 U	1 U	<0.25		N				N	N	
Butadiene, 1,3-	ug/m3		1.1 U	0.08 U		2.9 U	0.5 U		1.1 U	0.4 U		1.1 U	0.5 U		1.1 U	0.5 U			N				N	N	
Carbon Disulfide	ug/m3	1.6 U	1.6 U	0.12 U	1.6 U	4 U	0.75 U	4.4 J	1.6 U	0.6 U	3.7 J	1.6 U	0.75 U	1.6 U	1.6 U	0.75 U			N				Y	N	
Carbon Tetrachloride	ug/m3	0.69	1.3 UJ	0.53	0.82	3.1 U	0.78 U	1.8	1.3 J	0.62 U	1.3 U	1.3 U	0.78 U	0.57	1.3 U	0.78 U	<0.25 - 0.68		Y		Y	Y	Y	**N**	
Chlorobenzene	ug/m3	0.92 U	0.92 U	0.2 U	0.92 U	2.3 U	1.3 U	0.92 U	0.92 U	1 U	0.92 U	0.92 U	1.3 U	0.92 U	0.92 U	1.3 U	<0.25		N				N	N	
Chlorodibromomethane	ug/m3	0.17 U	1.7 U	0.36 U	0.53 U	4.3 U	2.3 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	2.3 U	0.34 U	1.7 U	2.3 U			N				N	N	
Chloroethane	ug/m3		0.53 U	0.2 U		1.3 U	1.3 U		0.53 U	1 U		3.2	1.3 U		0.53 U	1.3 U			N				Y	N	
Chloroform	ug/m3	0.41	2.5	0.49	0.98	6.3	3.3	0.98 U	0.98 U	1.3	0.98 U	1	1.3 U	0.2 U	0.98 U	2.1	<0.25 - 0.54		Y		Y	Y	Y	Y	Y
Chloromethane	ug/m3	1.5	1.3	0.97	1.9	2.7 U	0.5 U	2.9	1 U	0.4 U	1 U	1 U	0.5 U	1 U	1.4	0.5 U	<0.25 - 2.0		Y		Y	N	Y	N	
Cis-1,2-Dichloroethene	ug/m3		0.79 U	0.16 U		2 U	1 U		0.79 U	0.8 U		0.79 U	1 U		0.79 U	1 U	<0.25		N				N	N	
cis-1,3-Dichloropropene	ug/m3		0.91 U	0.2 U		2.3 U	1.3 U		0.91 U	1 U		0.91 U	1.3 U		0.91 U	1.3 U			N				N	N	
Cyclohexane	ug/m3		0.69 U	0.12 U		1.7 U	0.95		0.69 U	0.6 U		0.69 U	3.9		0.69 U	0.75 U			**Y**		Y	--	**Y**	**Y**	Y
Dichlorodifluoromethane	ug/m3		4.9 J	0.3		6.4 U	1.3 U		5.4 J	1 U		3	1.3 U		3.4	1.3 U			Y		Y	--	Y	**N**	
Ethylbenzene	ug/m3	2.6 J	1.7 U	2.5	6.1 J	2.9 U	6.3	6.1 J	1.1 U	5.1	6.9 J	1.5 U	6.5	0.61	1.1 U	2.4	0.43 - 2.8		Y		Y	Y	Y	Y	N
Ethanol	ug/m3			38			340			0.8 U			1 U			33			Y		Y	--	N	N	
Ethyl acetate	ug/m3			1.8 U			1.8 U			1.4 U			1.8 U			1.8 U			Y		Y	--	Y	**Y**	N
Heptane	ug/m3		3.6	4.6		3.2	14		0.82 U	5.1		0.82 U	9.7		0.86	1 U			Y		Y	--	**Y**	**Y**	Y
Hexachlorobutadiene	ug/m3		2.1 UJ	0.44 U		5.3 U	2.8 U		2.1 UJ	2.2 U		2.1 U	2.8 U		2.1 U	2.8 U			N				N	N	
Hexane	ug/m3		1.8 U	2.1		6.3	3.1		1.8 U	1.9		1.8 U	1 U		2.4	1 U	0.63 - 6.5		Y		Y	N	**Y**	**Y**	N
Isooctane	ug/m3		0.93 U			2.3 U			0.93 U			0.93 U			1.9				N				N	N	
Methyl Tertbutyl Ether	ug/m3		1.8 U	0.16 U		4.7 U	1 U		1.8 U	0.8 U		1.8 U	1 U		1.8 U	1 U	<0.25 - 6.7		N				N	N	
Methylene Chloride	ug/m3	5.6 J	1.7 U	1.2	25	280	13	1.7 U	1.7 U	1.1	1.7 U	19	0.75 U	5.6 J	1.7 U	3.2	0.38 - 6.3	60	Y		Y	**N**	Y	Y	**N**
o-Xylene	ug/m3		1.3 U	2.9		2.2 U	6.3		1 U	5.8		1.3 U	8.3		1.4 U	2.3	0.39 - 3.1		**Y**		Y	N	**Y**	**Y**	N
Propylene	ug/m3			0.08 U			0.5 U			0.4 U			0.5 U			0.5 U			N				N	N	
Styrene	ug/m3		0.85 U	0.43		2.1 U	1 U		0.85 U	0.8 U		0.85 U	1 U		0.85 U	1 U	<0.25 - 0.68		**Y**		Y	N	N	N	
t-Butyl alcohol	ug/m3		15 U			39 U			15 U			15 U			15 U				N				N	N	
Tetrachloroethene	ug/m3	0.6	1.4 U	0.43	0.5	3.4 U	0.85 U	6.5	3.3	1.8	1.4 U	1.4 U	0.85 U	0.36	1.4 U	0.85 U	<0.25 - 1.2	100	Y		Y	N	Y	Y	N
Tetrahydrofuran	ug/m3		15 U	0.72		38 U	1.5 U		15 U	1.2 U		15 U	1.5 U		15 U	1.5 U			**Y**		Y	--	N	N	
Toluene	ug/m3	6 J	7.2 U	14	6.4 J	8.3 U	22	68 J	3.8 U	8.2	49 J	6 U	6.2	4.5 J	6.4 U	17	4.2 - 25		Y		Y	N	Y	Y	N

Prepared by: KJC
Checked by: JHP
6/21/2007

Table 3
Pathway Completeness and Risk Analysis
Warehouse Area

		Air Samples						Soil Gas Samples						Outdoor Air										
		IA-005 4/6/05	IA-005 3/2/06	IA-005 3/14/07	IA-006 4/6/05	IA-006 3/2/06	IA-006 3/14/07	SG-192 (IA-005) 4/6/05	SG-192 (IA-005) 3/2/06	SG-192 (IA-005) 3/14/07	SG-193 (IA-006) 4/6/05	SG-193 (IA-006) 3/2/06	SG-193 (IA-006) 3/14/07	OA-001 4/6/05	OA-001 3/2/06	OA-001 3/14/07	Published Background	NYSDOH Air Guideline	Detected in Indoor Air?		Average Indoor Air > Outdoor Air?	Average Indoor Air > Published Background or NYSDOH Guideline?	Detected in Soil Gas?	Pathway Potentially Complete?	Pathway Potentially Complete & Indoor Air > Higest of Background, Air Guideline, and Risk-Based Value?
trans-1,2-Dichloroethene	ug/m3		0.79 U	0.16 U		2 U	1 U		0.79 U	0.8 U		0.79 U	1 U		0.79 U	1 U			N				N	N	
trans-1,3-Dichloropropene	ug/m3		0.91 U	0.2 U		2.3 U	1.3 U		0.91 U	1 U		0.91 U	1.3 U		0.91 U	1.3 U			N				N	N	
Trichloroethene	ug/m3	0.33	1.1 U	0.11 U	0.49	2.7 U	0.68 U	1.1 U	1.1 U	0.54 U	1.1 U	1.1 U	0.68 U	0.21 U	1.1 U	0.68 U	<0.25	5	*Y*		Y	N	N	N	
Trichlorofluoromethane	ug/m3		2.5	1.9		2.8 U	2.7		2.1	2		1.7	1.7		1.7	1.5			Y		Y	--	Y	Y	N
Vinyl acetate	ug/m3			1.4			1 U			0.8 U			1 U			1 U			**Y**		Y	--	N	N	
Vinyl bromide	ug/m3		0.87 U			2.2 U			0.87 U			0.87 U			0.87 U			N				N	N	
Vinyl Chloride	ug/m3	0.051 U	0.51 U	0.12 U	0.16 U	1.3 U	0.75 U	0.51 U	0.51 U	0.6 U	0.51 U	0.51 U	0.75 U	0.1 U	0.51 U	0.75 U	<0.25		N				N	N	
Xylene, m/p	ug/m3		4.8 U	8.7		5.6 U	15		3.5 U	18		4 U	27		3.7 U	7.7			**Y**		Y	--	**Y**	**Y**	N
Xylenes, Total	ug/m3		6.1 U			2.2 U			4.8 U			5.2 U			5.2 U			N				N	N	
																			Excess Lifetime Cancer Risk [a]					3E-04 [b]	
																			Hazard Index [a]					25 [b]	

Notes:
Shaded values in Indoor Air, Soil Gas, or Outdoor Air indicate that the detected concentration exceeded the commercial/industrial risk-based value presented in Table 1.
Published Background is the NYSDOH background data base for homes in NYS (1997 - 2003) (NYSDOH, 2005)
The NYSDOH Guideline value is the Air Guideline Value (NYSDOH, 2005)
NYSDOH, 2005: Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Public Comment Draft. February, 2005
Pathway is potentially complete if a constituent was detected in both soil gas and indoor air during the most recent sampling round.
[a] Risks are calculated in Attachment A and are based on full-time commercial/industrial worker exposures.
[b] Risks for constituents detected in indoor air are calculated for each constituent denoted with a "Y" and summed to yield total cancer risk and hazard index values.
[c] - Risks for constituents detected in indoor air that are not associated with facility operations (i.e., risks are calculated for each constiituent denoted with a "N").
Y - Yes; values that are bolded represent new findings as of the most recent sampling round; values that are italicized represent findings based on previous sampling rounds
N - No; values that are bolded represent new findings as of the most recent sampling round; values that are italicized represent findings based on previous sampling rounds
-- Not applicable

Prepared by: KJC
Checked by: JHP
6/21/2007

Table 4
Pathway Completeness and Risk Analysis
Production Area

		Air Samples									Soil Gas Samples									Outdoor Air							
		IA-002 4/6/05	IA-002 3/2/06	IA-002 3/14/07	IA-003 4/6/05	IA-003 3/2/06	IA-003 3/14/07	IA-004 4/6/05	IA-004 3/2/06	IA-004 3/14/07	SG-189 (IA-002) 4/6/05	SG-189 (IA-002) 3/2/06	SG-189 (IA-002) 3/14/07	SG-190 (IA-003) 4/6/05	SG-190 (IA-003) 3/2/06	SG-190 (IA-003) 3/14/07	SG-191 (IA-004) 4/6/05	SG-191 (IA-004) 3/2/06	SG-191 (IA-004) 3/14/07	OA-001 4/6/05	OA-001 3/2/06	OA-001 3/14/07	Published Background	NYSDOH Air Guideline	Detected in Indoor Air?	Indoor Air > Outdoor Air?	Indoor Air > Published Background or NYSDOH Guideline?	Detected in Soil Gas?	Pathway Potentially Complete?	Pathway Potentially Complete & Indoor Air > Higest of Background, Air Guideline, and Risk-Based Value?
2,6-Dichloropyridine	ug/m3		22	100 U		97	100 U		12	22		26	110		5300	220		8	10 U		0.46 U	1.2 U							
2-Chloropyridine	ug/m3		1500	590		550	950		450	580		460	700		#####	920		270	26		2.3 U	2.5			Y	Y	--	Y	Y	Y
1,1,1-Trichloroethane	ug/m3		1.1 U	0.22 U		1.1 U	0.37		1.1 U	0.35		1700 U	54 U		65 U	5.4 U		440 U	5.4 U		1.1 U	0.68 U	<0.25 - 1.4		**Y**	Y	N	N	N	
1,1,2,2-Tetrachloroethane	ug/m3		1.4 U	0.56 U		1.4 U	0.28 U		1.4 U	0.28 U		2200 U	180		82 U	14 U		550 U	14 U		1.4 U	1.8 U	<0.25		N			**Y**	N	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3		1.5 U	0.64 U		1.5 U	0.55		1.5 U	0.58		2500 U	160 U		92 U	16 U		610 U	16 U		1.5 U	2 U			**Y**	Y	--	N	N	
1,1,2-Trichloroethane	ug/m3		1.1 U	0.4 U		1.1 U	0.2 U		1.1 U	0.2 U		1700 U	100 U		65 U	10 U		440 U	10 U		1.1 U	1.3 U	<0.25		N			N	N	
1,1-Dichloroethane	ug/m3		0.81 U	0.32 U		0.81 U	0.16 U		0.81 U	0.16 U		1300 U	80 U		49 U	8 U		320 U	8 U		0.81 U	1 U	<0.25		N			N	N	
1,1-Dichloroethene	ug/m3		0.79 U	0.32 U		0.79 U	0.24		0.79 U	0.16 U		1500	80 U		83	110		320 U	8 U		0.79 U	1 U	<0.25		**Y**	Y	Y	Y	**Y**	N
1,2,4-Trichlorobenzene	ug/m3		3.7 UJ	0.56 U		3.7 UJ	0.28 U		3.7 UJ	0.28 U		5900 U	140 U		220 U	14 U		1500 U	14 U		3.7 U	1.8 U			N			N	N	
1,2,4-Trimethylbenzene	ug/m3		74	0.4 U		16	2.7		44	4.3		1600 U	100 U		59 U	10 U		390 U	10 U		1.5	1.3 U	0.78 - 4.4		Y	Y	Y	N	N	
1,2-Dibromoethane	ug/m3		1.5 U	0.64 U		1.5 U	0.32 U		1.5 U	0.32 U		2500 U	160 U		92 U	16 U		610 U	16 U		1.5 U	2 U	<0.25		N			N	N	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ug/m3		1.4 U	0.56 U		1.4 U	0.28 U		1.4 U	0.28 U		2200 U	140 U		84 U	14 U		560 U	14 U		1.4 U	1.8 U			N			N	N	
1,2-Dichlorobenzene	ug/m3		1.2 U	0.48 U		1.2 U	0.24 U		1.2 U	0.24 U		1900 U	120 U		72 U	12 U		480 U	12 U		1.2 U	1.5 U	<0.25		N			N	N	
1,2-Dichloroethane	ug/m3	0.4 U	0.81 U	0.32 U	0.13 U	0.81 U	0.16 U	0.065	0.81 U	0.16 U	8100 U	1300 U	80 U	81 U	49 U	8 U	400 U	320 U	19	0.16 U	0.81 U	1 U	<0.25		**Y**	Y	N	**Y**	**Y**	N
1,2-Dichloroethene (total)	ug/m3	0.4 U	0.79 U		0.13 U	0.79 U		0.04 U	0.79 U		7900 U	1300 U		79 U	48 U		400 U	320 U		0.16 U	0.79 U				N			N	N	
1,2-Dichloropropane	ug/m3		0.92 U	0.4 U		0.92 U	0.2 U		0.92 U	0.2 U		1500 U	100 U		55 U	10 U		370 U	10 U		0.92 U	1.3 U	<0.25		N			N	N	
1,3,5-Trimethylbenzene	ug/m3		29	0.4 U		5.9	0.88		17	1.5		1600 U	100 U		59 U	10 U		390 U	10 U		0.98 U	1.3 U	<0.25 - 1.7		Y	Y	Y	N	N	
1,3-Dichlorobenzene	ug/m3		1.2 U	0.48 U		1.2 U	0.24 U		1.2 U	0.24 U		1900 U	120 U		72 U	12 U		480 U	12 U		1.2 U	1.5 U	<0.25		N			N	N	
1,4-Dichlorobenzene	ug/m3		1.2 U	0.48 U		1.2 U	0.24 U		1.2 U	0.24 U		1900 U	120 U		72 U	12 U		480 U	12 U		1.2 U	1.5 U			N			N	N	
1,4-Dioxane	ug/m3		R			R			R			29000 U			1100 U			7200 U			18 U				N			N	N	
2-Butanone	ug/m3		1.5 U	21		3.8 U	8		1.5 U	94		2400 U	60 U		88 U	92		590 U	6 U		1.5 U	2.4			**Y**	Y	--	**Y**	**Y**	N
2-Chlorotoluene	ug/m3		1 U			1 U			1 U			1700 U			62 U			410 U			1 U				N			N	N	
2-Hexanone	ug/m3		2 U	0.32 U		2 U	0.46		2 U	0.16 U		3300 U	80 U		120 U	8 U		820 U	8 U		2 U	1 U			**Y**	Y	--	N	N	
4-Ethyltoluene	ug/m3		88	0.4 U		18	1		54	1.6		1600 U	100 U		59 U	10 U		390 U	10 U		1.3	1.3 U			Y	Y	--	N	N	
4-Methyl-2-pentanone	ug/m3		2 U	1.8		2 U	5.2		2 U	2.4		3300 U	80 U		120 U	8 U		820 U	8 U		2 U	1.6			**Y**	Y	--	N	N	
Acetone	ug/m3		12 U	64		33	16		36	35		19000 U	40 U		710 U	76		4800 U	46		12 U	14	10 - 46		Y	Y	N	**Y**	**Y**	N
Allyl chloride	ug/m3		1.6 U			1.6 U			1.6 U			2500 U			94 U			630 U			1.6 U				N			N	N	
Benzene	ug/m3	0.73	0.64 U	0.87	1.1	0.93	1.3	1.5	1.1	1.3	6400 U	1000 U	1500	210	93	130	320 U	260 U	6 U	1.7	2.4	1.1	1.2 - 5.7		Y	N	N	Y	Y	N
Benzyl chloride	ug/m3			0.4 U			0.2 U			0.2 U			100 U			10 U			10 U			1.3 U					N		N	
Bromodichloromethane	ug/m3	0.67 U	1.3 U	0.56 U	0.22 U	1.3 U	0.28 U	0.067 U	1.3 U	0.28 U	13000 U	2100 U	140 U	130 U	80 U	14 U	670 U	540 U	120	0.27 U	1.3 U	1.8 U			N			N	N	
Bromoform	ug/m3	1 U	2.1 UJ		0.34 U	2.1 UJ		0.1 U	2.1 UJ		21000 U	3300 U		210 U	120 U		1000 U	830 U		0.41 U	2.1 U				N			N	N	
Bromomethane	ug/m3		0.78 U	0.32 U		0.78 U	0.16 U		0.78 U	0.16 U		1200 U	80 U		47 U	8 U		310 U	8 U		0.78 U	1 U	<0.25		N			N	N	
Butadiene, 1,3-	ug/m3		1.1 U	0.16 U		1.1 U	0.08 U		1.1 U	0.08 U		1800 U	40 U		66 U	4 U		440 U	4 U		1.1 U	0.5 U			N			N	N	
Carbon Disulfide	ug/m3	1.6 U	1.6 U	0.4	1.6 U	1.6 U	0.27	1.6 U	1.6 U	0.16	50000	2500 U	330	160 U	170	42	1000	620	6 U	1.6 U	1.6 U	0.75 U			**Y**	Y	--	Y	**Y**	N
Carbon Tetrachloride	ug/m3	0.69	1.3 UJ	1.2	4.3	5.2 J	4.8	0.69	1.3 UJ	0.55	13000 U	2000 U	62 U	8800	4300	230	630 U	500 U	200	0.57	1.3 U	0.78 U	<0.25 - 0.68		Y	Y	Y	Y	Y	Y
Chlorobenzene	ug/m3	6	1.2	0.4 U	0.92 U	0.92 U	0.53	0.92 U	0.92 U	0.2 U	9200 U	1500 U	270	830	1000	1000	460 U	370 U	10 U	0.92 U	0.92 U	1.3 U	<0.25		Y	Y	Y	Y	**Y**	N
Chlorodibromomethane	ug/m3	0.85 U	1.7 U	0.72 U	0.28 U	1.7 U	0.36 U	0.085 U	1.7 U	0.36 U	17000 U	2700 U	180 U	170 U	100 U	18 U	850 U	680 U	18 U	0.34 U	1.7 U	2.3 U			N			N	N	
Chloroethane	ug/m3		0.53 U	0.4 U		0.53 U	0.2 U		0.53 U	0.2 U		840 U	550		32 U	10 U		210 U	10 U		0.53 U	1.3 U			N			N	N	
Chloroform	ug/m3	2.2	15	12	2.7	27	6.3	1.8	35	2.9	#####	250000	#####	18000	8800	4900	73000	42000	51000	0.2 U	0.98 U	2.1	<0.25 - 0.54		Y	Y	Y	Y	Y	Y
Chloromethane	ug/m3	1.6	1 U	3.9	1.6	1.5	1	1.2	1.3	1	10000 U	1700 U	78	100 U	62 U	4 U	520 U	410 U	4 U	1 U	1.4	0.5 U	<0.25 - 2.0		Y	Y	N	**Y**	**Y**	N
Cis-1,2-Dichloroethene	ug/m3		0.79 U	0.32 U		0.79 U	0.16 U		0.79 U	0.16 U		1300 U	80 U		48 U	14		320 U	8 U		0.79 U	1 U	<0.25		N			**Y**	N	
cis-1,3-Dichloropropene	ug/m3		0.91 U	0.4 U		0.91 U	0.2 U		0.91 U	0.2 U		1500 U	100 U		54 U	10 U		360 U	10 U		0.91 U	1.3 U			N			N	N	
Cyclohexane	ug/m3		0.69 U	0.24 U		0.69 U	0.12 U		0.69 U	0.12 U		130000	#####		93	6 U		280 U	6 U		0.69 U	0.75 U			N			Y	N	
Dichlorodifluoromethane	ug/m3		2.5 UJ	2.7		4.9 J	2.2		4.9 J	2		4000 U	100 U		150 U	10 U		990 U	10 U		3.4	1.3 U			Y	Y	--	N	N	
Ethylbenzene	ug/m3	30	3.1 U	0.32 U	0.91 J	1 U	2.9	1.2 J	2.6 U	5.7	8700 U	1400 U	110	87 U	52 U	10	430 U	350 U	8 U	0.61	1.1 U	2.4	0.43 - 2.8		Y	Y	Y	**Y**	**Y**	N
Ethanol	ug/m3			75			61			0.16 U			1500			8 U			8 U			33			Y	Y	--	Y	Y	Y
Ethyl acetate	ug/m3			0.56 U			0.28 U			0.28 U			140 U			14 U			14 U			1.8 U			Y	Y	--	Y	Y	N
Heptane	ug/m3		0.82 U	0.56		0.82 U	0.38		1.3	1		2000	1400		49 U	24		330 U	14		0.86	1 U			Y	N	--	Y	Y	N
Hexachlorobutadiene	ug/m3		2.1 UJ	0.88 U		2.1 UJ	0.44 U		2.1 UJ	0.44 U		3400 U	220 U		130 U	22 U		850 U	22 U		2.1 U	2.8 U			N			N	N	
Hexane	ug/m3		1.8 U	1		1.8 U	1		1.8 U	1.4		35000	48000		110 U	49		700 U	8 U		2.4	1 U	0.63 - 6.5		**Y**	N	N	Y	**Y**	N
Isooctane	ug/m3		0.93 U			0.93 U			0.93 U			1500 U			56 U			370 U			1.9				N			N	N	
Methyl Tertbutyl Ether	ug/m3		1.8 U	0.32 U		1.8 U	0.16 U		1.8 U	0.16 U		2900 U	80 U		110 U	8 U		720 U	8 U		1.8 U	1 U	<0.25 - 6.7		N			N	N	
Methylene Chloride	ug/m3	11 J	1.7 U	5.4	5.9 J	1.7	2.1	6.3 J	2.2	2	#####	5900	7600	520	110	92	2700	690 U	6 U	5.6 J	1.7 U	3.2	0.38 - 6.3	60	Y	Y	N	Y	Y	N
o-Xylene	ug/m3		0.87 U	0.32 U		0.87 U	3.8		1.4 U	6		1400 U	80 U		52 U	8 U		350 U	8 U		1.4 U	2.3	0.39 - 3.1		**Y**	Y	N	N	N	
Propylene	ug/m3			0.16 U			0.08 U			0.08 U			40 U			4 U			4 U			0.5 U			N			N	N	
Styrene	ug/m3		0.85 U	0.32 U		0.85 U	0.29		0.85 U	0.49		1400 U	80 U		51 U	8 U		340 U	8 U		0.85 U	1 U	<0.25 - 0.68		**Y**	Y	N	N	N	
t-Butyl alcohol	ug/m3		15 U			15 U			15 U			24000 U			910 U			6100 U			15 U				N			N	N	
Tetrachloroethene	ug/m3	2.3	2.3	0.28 U	0.95	1.5	1.1	0.53	1.4 U	0.79	88000	21000	9000	6300	5600	3200	1600	540 U	140	0.36	1.4 U	0.85 U	<0.25 - 1.2	100	Y	Y	N	Y	Y	N
Tetrahydrofuran	ug/m3		15 U	28		15 U	12		15 U	100		24000 U	120 U		880 U	12 U		5900 U	12 U		15 U	1.5 U			**Y**	Y	--	N	N	
Toluene	ug/m3	4.1 J	1.5 U	0.32 U	4.9 J	2.5 U	13	3.3 J	3.3 U	21	57000	9400 U	8100	410	240 U	220	720	1100 U	8 U	4.5 J	6.4 U	17	4.2 - 25		Y	**N**	N	Y	Y	N
trans-1,2-Dichloroethene	ug/m3		0.79 U	0.32 U		0.79 U	0.16 U		0.79 U	0.16 U		1300 U	80 U		48 U	8 U		320 U	8 U		0.79 U	1 U			N			N	N	
trans-1,3-Dichloropropene	ug/m3		0.91 U	0.4 U		0.91 U	0.2 U		0.91 U	0.2 U		1500 U	100 U		54 U	10 U		360 U	10 U		0.91 U	1.3 U			N			N	N	
Trichloroethene	ug/m3	0.54 U	1.1 U	0.22 U	0.7	1.1 U	0.11 U	0.32	1.1 U	0.3	11000 U	3400	4000	160	170	98	540 U	430 U	180	0.21 U	1.1 U	0.68 U	<0.25	5	Y	Y	N	Y	Y	N
Trichlorofluoromethane	ug/m3		1.1 U	1.8		2	1.6		2.1	1.6		1900	120 U		67 U	12 U		450 U	12 U		1.7	1.5			Y	**Y**	--	Y	Y	N
Vinyl acetate	ug/m3			0.32 U			0.16 U			1.8			80 U			13			8 U			1 U			Y	Y	--	Y	Y	N
Vinyl bromide	ug/m3		0.87 U			0.87 U			0.87 U			1400 U			52 U			350 U			0.87 U				N			N	N	
Vinyl Chloride	ug/m3	0.26 U	0.51 U	0.24 U	0.08 U	0.51 U	0.12 U	0.026 U	0.51 U	0.12 U	5100 U	1400	2200	89	38	56	260 U	200 U	6 U	0.1 U	0.51 U	0.75 U	<0.25		N			Y	N	
Xylene, m/p	ug/m3		2.5 U	0.32 U		2.2 U	12		4.8 U	19		3500 U	190		130 U	26		870 U	14		3.7 U	7.7			Y	Y	--	**Y**	**Y**	N
Xylenes, Total	ug/m3		2.6 U			0.87 U			6.5 U			1400 U			52 U			350 U			5.2 U				N			N	N	

Excess Lifetime Cancer Risk [a]	4E-04	[b]
Hazard Index [a]	19	[b]

Notes:
Shaded values in Indoor Air, Soil Gas, or Outdoor Air indicate that the detected concentration exceeded the commercial/industrial risk-based value presented in Table 1.
Published Background is the NYSDOH background data base for homes in NYS (1997 - 2003) (NYSDOH, 2005)
The NYSDOH Guideline value is the Air Guideline Value (NYSDOH, 2005)
NYSDOH, 2005: Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Public Comment Draft. February, 2005
Pathway is potentially complete if a constituent was detected in both soil gas and indoor air during the most recent sampling round.
[a] Risks are calculated in Attachment A and are based on full-time commercial/industrial worker exposures.
[b] Risks for constituents detected in indoor air are calculated for each constituent denoted with a "Y" and summed to yield total cancer risk and hazard index values.
[c] - Risks for constituents detected in indoor air that are not associated with facility operations (i.e., risks are calculated for each constiituent denoted with a "N").
Y - Yes; values that are bolded represent new findings as of the most recent sampling round; values that are italicized represent findings based on previous sampling rounds
N - No; values that are bolded represent new findings as of the most recent sampling round; values that are italicized represent findings based on previous sampling rounds
-- Not applicable

Prepared by: KJC
Checked by: JHP
6/21/2007

APPENDIX A

METEROLOGICAL DATA

Weather observations for the past three days

Enter Your "City, ST" <> Go

Date	Time (edt)	Wind (mph)	Vis. (mi.)	Weather	Sky Cond.	Temperature (ºF)				Pressure		Precipitation		
						Air	Dwpt	6 hour		altimeter (in)	sea level (mb)	1 hr	3 hr	6 hr
								Max.	Min.					
15	06:54	NW 12	7.00	Light Snow	BKN026 BKN038 OVC050	35	29			30.05	1017.7			
15	05:54	W 8	10.00	Overcast	OVC047	36	29			29.98	1015.6			
15	04:54	Vrbl 3	9.00	Light Snow	FEW025 SCT035 OVC045	35	32			29.96	1014.9	0.04	0.06	
15	03:54	NW 14 G 20	8.00	Overcast	BKN039 OVC046	38	30			29.95	1014.5	0.02		
15	02:54	NW 17 G 22	10.00	Light Rain	FEW035 OVC046	42	32			29.92	1013.4			
15	01:54	W 5	10.00	Overcast	OVC040	45	40	56	45	29.87	1011.6	0.01		0.08
15	00:54	W 5	10.00	Light Rain	FEW030 OVC038	47	41			29.87	1011.7	0.02		
14	23:54	NW 8	10.00	Light Rain	OVC036	48	42			29.88	1011.9			
14	22:54	NW 8	4.00	Light Rain	FEW008 SCT025 OVC031	50	45			29.86	1011.1	0.03	0.05	
14	21:54	NW 9	2.00	Light Rain Fog/Mist	BKN008 OVC023	54	51			29.83	1010.3	0.01		
14	20:54	NW 9	5.00	Light Rain Fog/Mist	BKN006 OVC017	56	53			29.81	1009.3	0.01		
14	19:54	SW 8	8.00	Light Rain	BKN015 OVC024	56	53	59	56	29.78	1008.5			
14	18:54	SW 10	10.00	Light Rain	OVC013	58	54			29.77	1008.0			
14	17:54	SW 12	10.00	Overcast	OVC013	59	54			29.76	1007.8			
14	16:54	SW 12	10.00	Overcast	OVC015	58	53			29.76	1007.8			
14	15:54	S 9	9.00	Overcast	OVC015	57	53			29.75	1007.6			
14	14:54	SW 12 G 18	8.00	Overcast	OVC019	56	52			29.75	1007.5			
14	13:54	SW 16	3.00	Light Rain Fog/Mist	OVC021	56	52	62	55	29.77	1008.3	0.02		0.02
14	12:54	S 15	6.00	Light Rain	BKN026 OVC032	57	52			29.79	1008.7			
14	11:54	S 15	7.00	Light Rain	OVC023	57	51			29.79	1008.9			
14	10:54	S 12	7.00	Light Rain	BKN028 OVC060	60	49			29.80	1009.3			
14	09:54	S 12	10.00	Overcast	BKN028 OVC250	60	47			29.80	1009.2			
14	08:54	SW 12	10.00	Overcast	FEW035 SCT075 OVC250	58	46			29.81	1009.4			
14	07:54	S 10	10.00	Mostly Cloudy	FEW035 BKN075	56	45	59	55	29.81	1009.6			

					BKN250									
14	06:54	SW 12	10.00	Mostly Cloudy	FEW030 SCT080 BKN250	57	45			29.82	1009.6			
14	05:54	S 13	10.00	Overcast	BKN090 BKN110 OVC250	57	45			29.82	1009.7			
14	04:54	S 10	10.00	Overcast	BKN060 OVC200	58	45			29.82	1009.6			
14	03:54	S 13	10.00	Overcast	BKN050 OVC200	58	45			29.83	1010.1			
14	02:54	S 13	10.00	Overcast	OVC150	58	45			29.85	1010.7			
14	00:54	SW 14	10.00	Mostly Cloudy	FEW100 BKN200	57	42			29.85	1010.7			
13	23:54	S 16	10.00	Partly Cloudy	SCT200	57	41			29.85	1010.8			
13	22:54	S 16	10.00	Fair	CLR	57	40			29.87	1011.5			
13	21:54	S 13	10.00	Fair	CLR	58	41			29.88	1011.9			
13	20:54	SW 12	10.00	Partly Cloudy	FEW150 SCT200	57	42			29.88	1012.1			
13	19:54	SW 13	10.00	Mostly Cloudy	FEW100 SCT150 BKN200	60	42	66	60	29.88	1012.0			
13	18:54	SW 13	10.00	Mostly Cloudy	FEW100 SCT150 BKN200	62	43			29.87	1011.5			
13	17:54	SW 15	10.00	Mostly Cloudy	FEW100 SCT150 BKN200	64	44			29.85	1010.9			
13	16:54	SW 20	10.00	Partly Cloudy	FEW150 SCT200	66	43			29.86	1011.1			
13	15:54	SW 17	10.00	Mostly Cloudy	BKN160 BKN250	65	42			29.87	1011.5			
13	14:54	SW 16	10.00	Mostly Cloudy	BKN160 BKN250	63	40			29.88	1012.1			
13	13:54	SW 12	10.00	Mostly Cloudy	SCT180 BKN250	60	35	60	46	29.91	1012.9			
13	12:54	S 9	10.00	Mostly Cloudy	FEW045 BKN140 BKN160	56	32			29.94	1014.0			
13	11:54	S 13	10.00	Mostly Cloudy	SCT045 BKN200	53	31			29.95	1014.5			
13	10:54	S 14	10.00	Overcast	FEW045 SCT120 OVC140	50	29			29.96	1014.8			
13	09:54	SW 10	10.00	Overcast	SCT120 OVC140	48	29			29.98	1015.5			
13	08:54	S 10	10.00	Overcast	SCT100 BKN120 OVC140	47	28			29.99	1015.8			
13	07:54	SW 9	10.00	Mostly Cloudy	FEW050 SCT075 BKN250	46	27	47	44	29.99	1015.9			
13	06:54	SW 8	10.00	Overcast	BKN045 OVC055	46	28			30.00	1016.2			
13	05:54	SW 7	10.00	Overcast	BKN049 OVC060	46	28			30.00	1016.2			
13	02:54	S 6	10.00	Overcast	FEW050 OVC055	45	26			30.06	1018.0			
13	01:54	S 6	10.00	Overcast	BKN060 OVC075	44	25	45	42	30.07	1018.4			
13	00:54	S 7	10.00	Overcast	FEW060 OVC070	44	24			30.08	1019.0			
12	23:54	S 8	10.00	Overcast	BKN048 BKN060 OVC080	44	22			30.10	1019.5			
12	22:54	S 6	10.00	Overcast	BKN050 OVC060	42	23			30.12	1020.5			
12	21:54	S 5	10.00	Overcast	BKN050 OVC080	43	20			30.12	1020.6			
12	20:54	Calm	10.00	Overcast	BKN055 OVC080	43	19			30.12	1020.5			
12	19:54	SE 6	10.00	Overcast	BKN055 OVC075	43	19	51	43	30.13	1020.7			
12	18:54	S 6	10.00	Overcast	BKN060 OVC085	43	20			30.14	1021.2			

12	17:54	W 10	10.00	Overcast	BKN075 OVC140	45	19			30.15	1021.3			
12	16:54	W 14	10.00	Overcast	BKN085 OVC140	46	16			30.15	1021.6			
12	15:54	W 13	10.00	Overcast	SCT110 OVC140	50	16			30.16	1021.6			
12	14:54	W 12	10.00	Overcast	FEW110 BKN160 OVC200	50	12			30.16	1021.8			
12	13:54	SW 9	10.00	Overcast	SCT180 OVC250	50	21	50	31	30.18	1022.4			
12	12:54	SW 9	10.00	Mostly Cloudy	BKN250	46	22			30.21	1023.3			
12	11:54	S 10	10.00	Overcast	FEW180 OVC250	44	20			30.22	1023.8			
12	10:54	S 9	10.00	Overcast	FEW180 OVC250	42	19			30.24	1024.5			
12	09:54	SW 9	10.00	Overcast	FEW180 OVC250	37	20			30.25	1024.9			
12	08:54	SW 9	10.00	Overcast	SCT180 OVC250	34	19			30.26	1025.3			
12	07:54	SW 12	10.00	Mostly Cloudy	BKN180 BKN250	31	20	31	28	30.27	1025.6			
12	06:54	SW 9	10.00	Mostly Cloudy	FEW200 BKN250	30	20			30.27	1025.7			
Date	Time (edt)	Wind (mph)	Vis. (mi.)	Weather	Sky Cond.	Air	Dwpt	Max. 6 hour	Min. 6 hour	altimeter (in)	sea level (mb)	1 hr	3 hr	6 hr
						Temperature (ºF)				Pressure		Precipitation		

APPENDIX B

FIELD DATA RECORDS

Site Location: ARCH Chemical, Rochester, N.Y.						Sampled By: Wolfgang Calicchio	
Project Number: 3616036009.01						Sampling Date: 3/14/07	
Sample ID	Canister	Sampling Location	Flow Controller	Start Time	End Time	Total Sample Time	Canister Start Pressure (in. Hg)	Canister End Pressure (in. Hg)
IA-07-001	CT1814	Location 1	CT47	0750	1310	Hrs. Min.	-29.2	0
SG-07-188	1658	Location 1	12	0750	1050	Hrs. Min.	-29.5	0.07
IA-07-002	860	Location 2	33	0835	1634	Hrs. Min.	-29.0	-3.4
SG-07-189	1706	Location 2	RT3220	0835	1657	Hrs. Min.	-29.4	-7.0
IA-07-003	3492	Location 3	CT19	0818	1055	Hrs. Min.	-29.0	-0.1
SG-07-190	3522	Location 3	RT099	0818	1550	Hrs. Min.	-29.3	-4.3
IA-07-004	1317	Location 4	384	0738	1545	Hrs. Min.	-29.1	-5.4
SG-07-191	3543	Location 4	CT20	0738	0830	Hrs. Min.	-29.3	0.00
IA-07-005	3530	Location 5	34	0807	1706	Hrs. Min.	-29.3	-1.0
SG-07-192	3534	Location 5	48	0807	1708	Hrs. Min.	-27.8	-1.0
IA-07-006	1311	Location 6	74	0731	1441	Hrs. Min.	-25.8	-4.1
SG-07-193	3512	Location 6	410	0731	1322	Hrs. Min.	-29.2	-0.2
OA-07-001	3501	Background Can	4	0809	1614	Hrs. Min.	-28.6	-3.1
IA-07-002DUP	1719	Dup Location 2	70	0835	1636	Hrs. Min.	-27.9	~~-3.1~~ -3.7
SG-07-191 RE	1711	Location 4	CT36	0901	1330	Hrs. Min.	-29.0	-0.2
						Hrs. Min.		
						Hrs. Min.		
						Hrs. Min.		
						Hrs. Min.		

Comments:

Do not analyze SG-07-191.

SG-07-190 Direct connect to barbed fitting.

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Company Name: MACTEC
Address: 511 Congress St. Portland, ME 04101
Attention: Jeff Brandow
Project Location: Rochester, NY
Sampled By: Wolfgang Calacino

Telephone: (207) 775-5401
Project # 3616036009.01
Client PO #

DATA DELIVERY (check one):
☐FAX ☐EMAIL ☐WEBSITE CLIENT
Fax # :
Email:
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER

Proposal Provided? (For Billing purposes)
☐ yes ____ proposal date

State Form Required?
☐ yes ☐ no

Field ID	Sample Description	Lab #	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Comp-osite	Grab	*Matrix Code	Conc. Code	TO-15 plus chlorinated alkanes	# of containers	**Preservation	~Cont.Code
	IA-07-001		3/14/07 0750	3/19/07 1310	✓		A	U	✓	1		S
	SG-07-188		3/14/07 0750	3/16/07 1050	✓		O		✓	1		S
	IA-07-002		3/14/07 0825	3/16/07 1634	✓		A		✓	1		S
	SG-07-189		3/14/07 0825	3/16/07 1657	✓		O		✓	1		S
	IA-07-003		3/14/07 0918	3/19/07 1055	✓		A		✓	1		S
	SG-07-190		3/14/07 0918	3/16/07 1550	✓		O		✓	1		S
	IA-07-004		3/14/07 0938	3/19/07 1545	✓		A		✓	1		S
	SG-07-191		3/14/07 0938	3/16/07 0830	✓		O		Do not analyze	1		S

ANALYSIS REQUESTED

~Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

Client Comments:

Do not analyze SG-07-191

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in **Matrix/Conc.** Code Box:
H - High; **M** - Medium; **L** - Low; **C** - Clean; **U** - Unknown

Relinquished by: (signature)	Date/Time:
	3/19/07 1720
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☐ 7-Day
☐ 10-Day
☑ Other ____
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations?
Data Enhancement Project/RCP? ☐ Y ☐ N
Special Requirements or DL's:

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other soil vapor

****Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other
X = Na hydroxide
T = Na thiosulfate

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Company Name: MACTEC
Address: 511 Congress Str. Portland, ME 04101
Attention: Jeff Brandow
Project Location: Rochester, NY
Sampled By: Wolfgang Calicchio

Telephone: (207) 775-5401
Project # 3616036009.01
Client PO #

Proposal Provided? (For Billing purposes) ☐ yes ______ proposal date
State Form Required? ☐ yes ☐ no

DATA DELIVERY (check one):
☐FAX ☐EMAIL ☐WEBSITE CLIENT
Fax # :
Email:
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER

# of containers: 1
**Preservation: n/a
~Cont.Code: S

ANALYSIS REQUESTED: TO-15 plus chlorinated alkanes

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code	TO-15
	IA-07-005		3/14/07 0807	3/14/07 1720	✓		A	U	✓
	SG-07-192		3/14/07 0807	3/14/07 1708	✓		O		✓
	IA-07-006		3/14/07 0731	3/14/07 1401	✓		A		✓
	SG-07-193		3/14/07 0731	3/14/07 1322	✓		O		✓
	OA-07-001		3/14/07 0809	3/14/07 1614	✓		A		✓
	IA-07-002DUP		3/14/07 0835	3/14/07 1636	✓		A		✓
	SG-07-191RE		3/14/07 0901	3/14/07 1330	✓		O	↓	✓

~Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

Client Comments:

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in **Matrix/Conc.** Code Box:
H - High; **M** - Medium; **L** - Low; **C** - Clean; **U** - Unknown

Relinquished by: (signature) [signature]	Date/Time: 3/14/07 1720
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☐ 7-Day
☐ 10-Day
☒ Other ____
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations?
Data Enhancement Project/RCP? ☐ Y ☐ N
Special Requirements or DL's:

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other soil vapor

****Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other
X = Na hydroxide
T = Na thiosulfate

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

APPENDIX C

LABORATORY ANALYTICAL REPORTS

con-test
ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 4/2/2007

MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101
ATTN: JEFF BRANDOW

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: MEC75070091/APO78

PROJECT NUMBER: 3616036009.01

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-04559
JOB NUMBER: 3616036009.01

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: ROCHESTER, NY

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
IA-07-001	07B08238	AIR	NOT SPECIFIED	air special test
IA-07-001	07B08238	AIR	NOT SPECIFIED	to-15 ug/m3
IA-07-002	07B08240	AIR	NOT SPECIFIED	air special test
IA-07-002	07B08240	AIR	NOT SPECIFIED	to-15 ug/m3
IA-07-002DUP	07B08250	AIR	NOT SPECIFIED	air special test
IA-07-002DUP	07B08250	AIR	NOT SPECIFIED	to-15 ug/m3
IA-07-003	07B08242	AIR	NOT SPECIFIED	air special test
IA-07-003	07B08242	AIR	NOT SPECIFIED	to-15 ug/m3
IA-07-004	07B08244	AIR	NOT SPECIFIED	air special test
IA-07-004	07B08244	AIR	NOT SPECIFIED	to-15 ug/m3
IA-07-005	07B08245	AIR	NOT SPECIFIED	air special test
IA-07-005	07B08245	AIR	NOT SPECIFIED	to-15 ug/m3
IA-07-006	07B08247	AIR	NOT SPECIFIED	air special test
IA-07-006	07B08247	AIR	NOT SPECIFIED	to-15 ug/m3
OA-07-001	07B08249	AIR	NOT SPECIFIED	air special test
OA-07-001	07B08249	AIR	NOT SPECIFIED	to-15 ug/m3
SG-07-188	07B08239	AIR	NOT SPECIFIED	air special test
SG-07-188	07B08239	AIR	NOT SPECIFIED	to-15 ug/m3
SG-07-189	07B08241	AIR	NOT SPECIFIED	air special test
SG-07-189	07B08241	AIR	NOT SPECIFIED	to-15 ug/m3
SG-07-190	07B08243	AIR	NOT SPECIFIED	air special test
SG-07-190	07B08243	AIR	NOT SPECIFIED	to-15 ug/m3
SG-07-191RE	07B08251	AIR	NOT SPECIFIED	air special test
SG-07-191RE	07B08251	AIR	NOT SPECIFIED	to-15 ug/m3
SG-07-192	07B08246	AIR	NOT SPECIFIED	air special test
SG-07-192	07B08246	AIR	NOT SPECIFIED	to-15 ug/m3
SG-07-193	07B08248	AIR	NOT SPECIFIED	air special test
SG-07-193	07B08248	AIR	NOT SPECIFIED	to-15 ug/m3

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ANALYTICAL LABORATORY

39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 4/2/2007

MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101
ATTN: JEFF BRANDOW

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: MEC75070091/APO78

PROJECT NUMBER: 3616036009.01

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-04559
JOB NUMBER: 3616036009.01

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

Comments :

LIMS BATCH NO. : LIMT-04559

NARRATIVE SUMMARY

IN METHOD TO-15, FOR SAMPLES 07B08238, 07B08240-41, AND 07B08244 METHOD BLANK CONTAINED ACETONE AT 0.43 UG/M3. FOR SAMPLE 07B08243 METHOD BLANK CONTAINED METHYLENE CHLORIDE AT 1.7 UG/M3.

IN METHOD TO-15, REPORTED RESULT FOR 2,6-DICHLOROPYRIDINE IN SAMPLE 07B08240 IS ESTIMATED. CONTINUING CALIBRATION DID NOT MEET METHOD SPECIFIED CRTIERIA.

IN METHOD TO-15, FOR SAMPLES 07B08239, 07B08243, AND 07B08245-51 ANY REPORTED VALUE FOR VINYL ACETATE IS LIKELY TO BE BIASED ON THE LOW SIDE BASED ON LABORATORY FORTIFIED BLANK RECOVERY BIAS. FOR SAMPLES 07B08238, 07B08241, AND 07B08242 REPORTED RESULTS FOR ETHANOL ARE LIKELY TO BE BIASED ON THE HIGH SIDE BASED ON LABORATORY FORTIFIED BLANK RECOVERY BIAS. FOR SAMPLES 07B08238, 07B08241, 07B08243, AND 07B08250, REPORTED RESULTS FOR 2,6-DICHLOROPYRIDINE ARE LIKELY TO BE BIASED ON THE HIGH SIDE BASED ON LABORATORY FORTIFIED BLANK RECOVERY BIAS.

IN METHOD TO-15, REPORTED RESULTS FOR ISOPROPANOL IN SAMPLES 07B08241, 07B08246, 07B08246, AND 07B08251 ARE ESTIMATED. VALUES ARE REPORTED OVER THE VERIFIED LINEAR CALIBRATION RANGE.

IN SAMPLE 07B08243, REDUCED PRECISION IS ANTICAPTED FOR REPORTED RESULT FOR CYCLOHEXANE BASED ON SAMPLE DUPLICATE RPD OUTSIDE OF CONTROL LIMITS.

THERE ARE NO OTHER ANALYTICAL ISSUES THAT AFFECT THE USABILITY OF THE DATA.

DETAILED CASE NARRATIVE

METHOD TO-15

THE TO-15 METHOD BLANK WAS FOUND NOT TO BE CONTAMINATED WITH TARGET ANALYTES AT LEVELS ABOVE THE REPORTING LIMIT EXCEPT WHERE LISTED BELOW:

BLANK-99570 IS ASSOCIATED WITH SAMPLES 07B08238, 07B08240-41, AND 07B08244.
BLANK-99571 IS ASSOCIATED WITH SAMPLES 07B08245-47 AND 07B08249-50.
BLANK-99904 IS ASSOCIATED WITH SAMPLES 07B08239, 07B08248, AND 07B08251.
BLANK-99905 IS ASSOCIATED WITH SAMPLES 07B08243.

FOR SAMPLES 07B08238, 07B08240-41, AND 07B08244 METHOD BLANK CONTAINED ACETONE AT 0.43 UG/M3.
FOR SAMPLE 07B08243 METHOD BLANK CONTAINED METHYLENE CHLORIDE AT 1.7 UG/M3.

ALL TO-15 SAMPLES WERE ANALYZED UNDILUTED UNLESS SPECIFIED BELOW:

SAMPLE	DILUTION	COMPOUND(S)
07B08238	0.8X = 500 ML	MOST
07B08238	200X	2-CHLOROPYRIDINE AND 2,6-DICHLOROPYRIDINE
07B08239	200X	MOST
07B08239	4000X	HEXANE, CHLOROFORM, AND CYCLOHEXANE
07B08240	0.4X = 1000 ML	MOST
07B08240	20X	ETHANOL

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REPORT DATE 4/2/2007

MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101
ATTN: JEFF BRANDOW

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: MEC75070091/APO78

PROJECT NUMBER: 3616036009.01

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-04559
JOB NUMBER: 3616036009.01

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

07B08240	200X	2-CHLOROPYRIDINE AND 2,6-DICHLOROPYRIDINE
07B08241	20X	MOST
07B08241	200X	CHLOROFORM, ISOPROPANOL, AND 2-CHLOROPYRIDINE
07B08242	0.4X = 1000 ML	MOST
07B08242	20X	MEK, TETRAHYDROFURAN, 2-CHLOROPYRIDINE AND 2,6-DICHLOROPYRIDINE
07B08242	500X	ISOPROPANOL
07B08243	20X	MOST
07B08243	400X	CHLOROFORM AND ISOPROPANOL
07B08244	0.4X = 1000 ML	MOST
07B08244	20X	ACETONE, ETHANOL, ISOPROPANOL, 2-CHLOROPYRIDINE AND 2,6-DICHLOROPYRIDINE
07B08245	2.5X	MOST
07B08245	20X	ETHANOL AND ISOPROPANOL
07B08246	20X	MOST
07B08246	4000X	ISOPROPANOL
07B08247	2.5X	MOST
07B08247	20X	ACETONE, ETHANOL, ISOPROPANOL, 1,2,4-TRICHLOROBENZENE AND 2,6-DICHLOROPYRIDINE
07B08247	100X	2-CHLOROPYRIDINE
07B08248	2.5X	MOST
07B08248	20X	ISOPROPANOL AND 2-CHLOROPYRIDINE
07B08249	2.5X	ALL
07B08250	2.5X	MOST
07B08250	50X	2-CHLOROPYRIDINE AND 2,6-DICHLOROPYRIDINE
07B08251	2X	MOST
07B08251	20X	2-CHLOROPYRIDINE
07B08251	200X	ISOPROPANOL

INITIAL AND CONTINUING CALIBRATIONS MET ALL REQUIRED PERFORMANCE STANDARDS FOR METHOD TO-15 EXCEPT AS LISTED BELOW:

REPORTED RESULT FOR 2,6-DICHLOROPYRIDINE IN SAMPLE 07B08240 IS ESTIMATED. CONTINUING CALIBRATION DID NOT MEET METHOD SPECIFIED CRTIERIA.

LABORATORY CONTROL SAMPLE RECOVERIES WERE ALL WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW:

LFBLANK-60747 IS ASSOCIATED WITH SAMPLES 07B08238, 07B08240-41, AND 07B08244.
LFBLANK-60748 IS ASSOCIATED WITH SAMPLES 07B08245-47 AND 07B08249-50.
LFBLANK-61071 IS ASSOCIATED WITH SAMPLES 07B08239, 07B08248, AND 07B08251.
LFBLANK-61094 IS ASSOCIATED WITH SAMPLES 07B08243.

ETHANOL IN SAMPLES 07B08240 AND 07B08244 WAS ANALYZED FROM A DILUTION AND IS NOT ASSOCIATED WITH LFBLANK-60747.

DATA IS NOT AFFECTED BY OUTLIERS FOR HEXACHLOROBUTADIENE AND 1,2,4-TRICHLOROBENZENE SINCE ALL RESULTS ARE "NOT DETECTED" AND RECOVERY BIAS IS ON THE HIGH SIDE.

FOR SAMPLES 07B08239, 07B08243, AND 07B08245-51 ANY REPORTED VALUE FOR VINYL ACETATE IS LIKELY TO BE BIASED ON THE LOW SIDE BASED ON LABORATORY FORTIFIED BLANK RECOVERY BIAS.

FOR SAMPLES 07B08238, 07B08241, AND 07B08242 REPORTED RESULTS FOR ETHANOL ARE LIKELY TO BE BIASED ON THE HIGH SIDE BASED ON LABORATORY FORTIFIED BLANK RECOVERY BIAS.

FOR SAMPLES 07B08238, 07B08241, 07B08243, AND 07B08250, REPORTED RESULTS FOR

con-test®
ANALYTICAL LABORATORY

39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 4/2/2007

MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101
ATTN: JEFF BRANDOW

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: MEC75070091/APO78

PROJECT NUMBER: 3616036009.01

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-04559
JOB NUMBER: 3616036009.01

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

2,6-DICHLOROPYRIDINE ARE LIKELY TO BE BIASED ON THE HIGH SIDE BASED ON LABORATORY FORTIFIED BLANK RECOVERY BIAS.

ALL TO-15 SURROGATE STANDARD RECOVERIES WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW: NONE OUTSIDE OF CONTROL LIMITS

TENTATIVELY IDENTIFIED COMPOUNDS (TICs) IF REQUESTED ARE LISTED BELOW: NOT REQUESTED

REPORTED RESULTS FOR ISOPROPANOL IN SAMPLES 07B08241, 07B08246, 07B08246, AND 07B08251 ARE ESTIMATED. VALUES ARE REPORTED OVER THE VERIFIED LINEAR CALIBRATION RANGE.

IN SAMPLE 07B08243, REDUCED PRECISION IS ANTICAAPTED FOR REPORTED RESULT FOR CYCLOHEXANE BASED ON SAMPLE DUPLICATE RPD OUTSIDE OF CONTROL LIMITS.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033	AIHA ELLAP (LEAD) 100033	
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Edward Denson 4/2/07

SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Sondra L. Slesinski
Quality Assurance Officer

Edward Denson
Technical Director

* See end of data tabulation for notes and comments pertaining to this sample

con-test ANALYTICAL LABORATORY
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JEFF BRANDOW
MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

4/2/2007

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : **IA-07-001** (LOCATION IA-002)
Sample ID : **07B08238**
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			03/27/07	WSD				

RESULTS FOR PYRIDINES

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	590	100
2,6-DICHLOROPYRIDINE	ND	100

ND= NOT DETECTED

RESULTS FOR METHOD BLANK

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	ND ✓	0.5
2,6-DICHLOROPYRIDINE	ND ✓	0.5

RESULTS FOR LFB
PERCENT RECOVERY

ANALYTE:	TRUE VALUE	RESULT	%REC
2-CHLOROPYRIDINE	6.0	7.2	120 ✓
2,6-DICHLOROPYRIDINE	5.0	7.2	144 ✓

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-002 (LOCATION IA-003)
Sample ID : 07B08240
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
SPECIAL TEST			03/28/07	WSD				

RESULTS FOR PYRIDINES

ANALYTE:	SAMPLE RESULTS (ug/m^3)		REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	950		100
2,6-DICHLOROPYRIDINE	ND	J	100

ND= NOT DETECTED

RESULTS FOR METHOD BLANK

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	ND	0.5
2,6-DICHLOROPYRIDINE	ND	0.5

RESULTS FOR LFB
PERCENT RECOVERY

ANALYTE:	TRUE VALUE	RESULT	%REC
2-CHLOROPYRIDINE	6.0	5.2	87
2,6-DICHLOROPYRIDINE	5.0	4.4	88

RL = Reporting Limit

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Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-002DUP (LOCATION IA-003)
Sample ID : 07B08250
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			03/27/07	WSD				

RESULTS FOR PYRIDINES

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	1400 J	25
2,6-DICHLOROPYRIDINE	45	25

ND= NOT DETECTED

RESULTS FOR METHOD BLANK

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	ND	0.5
2,6-DICHLOROPYRIDINE	ND	0.5

RESULTS FOR LFB
PERCENT RECOVERY

ANALYTE:	TRUE VALUE	RESULT	%REC
2-CHLOROPYRIDINE	6.0	7.2	120
2,6-DICHLOROPYRIDINE	5.0	7.2	144

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-003 (LOCATION IA-004)
Sample ID : 07B08242
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			03/21/07	WSD				

RESULTS FOR PYRIDINES

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	580	10
2,6-DICHLOROPYRIDINE	22	10

ND= NOT DETECTED

RESULTS FOR METHOD BLANK

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	ND ✓	0.5
2,6-DICHLOROPYRIDINE	ND ✓	0.5

RESULTS FOR LFB
PERCENT RECOVERY

ANALYTE:	TRUE VALUE	RESULT	%REC
2-CHLOROPYRIDINE	6.0	6.3	105 ✓
2,6-DICHLOROPYRIDINE	5.0	6.1	122 ✓

RL = Reporting Limit

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NM = Not Measured

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01

Project Location: ROCHESTER, NY
LIMS-BAT #: LIMT-04559
Date Received: 3/15/2007
Job Number: 3616036009.01

Field Sample # : IA-07-004 (LOCATION IA-005)

Sample ID : 07B08244
Sampled : 3/14/2007
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			03/21/07	WSD				

RESULTS FOR PYRIDINES

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	380	10
2,6-DICHLOROPYRIDINE	50	10

RESULTS FOR METHOD BLANK

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	ND ✓	0.5
2,6-DICHLOROPYRIDINE	ND ✓	0.5

RESULTS FOR LFB
PERCENT RECOVERY

ANALYTE:	TRUE VALUE	RESULT	%REC
2-CHLOROPYRIDINE	6.0	6.1	102 ✓
2,6-DICHLOROPYRIDINE	5.0	5.7	114 ✓

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-005 (LOCATION IA-001)
Sample ID : 07B08245
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			03/21/07	WSD				

RESULTS FOR PYRIDINES

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	24	1.2
2,6-DICHLOROPYRIDINE	4.0	1.2

RESULTS FOR METHOD BLANK

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	ND ✓	0.5
2,6-DICHLOROPYRIDINE	ND ✓	0.5

RESULTS FOR LFB
PERCENT RECOVERY

ANALYTE:	TRUE VALUE	RESULT	%REC
2-CHLOROPYRIDINE	6.0	6.1	102 ✓
2,6-DICHLOROPYRIDINE	5.0	5.7	114 ✓

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-006 (LOCATION IA-006)
Sample ID : 07B08247
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			03/22/07	WSD				

RESULTS FOR PYRIDINES

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	1200 J	50
2,6-DICHLOROPYRIDINE	960	10

RESULTS FOR METHOD BLANK

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	ND	0.5
2,6-DICHLOROPYRIDINE	ND	0.5

RESULTS FOR LFB
PERCENT RECOVERY

ANALYTE:	TRUE VALUE	RESULT	%REC
2-CHLOROPYRIDINE	6.0	6.4	107
2,6-DICHLOROPYRIDINE	5.0	5.7	114

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4/2/2007

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01

Project Location: ROCHESTER, NY
LIMS-BAT #: LIMT-04559
Date Received: 3/15/2007
Job Number: 3616036009.01
Field Sample # : OA-07-001 (LOCATION OA-001)
Sample ID : 07B08249
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			03/22/07	WSD				

RESULTS FOR PYRIDINES

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	2.5 J	1.2
2,6-DICHLOROPYRIDINE	ND	1.2

ND= NOT DETECTED

RESULTS FOR METHOD BLANK

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	ND	0.5
2,6-DICHLOROPYRIDINE	ND	0.5

RESULTS FOR LFB
PERCENT RECOVERY

ANALYTE:	TRUE VALUE	RESULT	%REC
2-CHLOROPYRIDINE	6.0	6.1	102
2,6-DICHLOROPYRIDINE	5.0	5.7	114

RL = Reporting Limit

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NM = Not Measured

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PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01

Project Location: ROCHESTER, NY
LIMS-BAT #: LIMT-04559
Date Received: 3/15/2007
Job Number: 3616036009.01
Field Sample # : SG-07-188 (LOCATION SG-189)
Sample ID : 07B08239
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			03/24/07	WSD				

RESULTS FOR PYRIDINES

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	700	100
2,6-DICHLOROPYRIDINE	110	100

ND= NOT DETECTED

RESULTS FOR METHOD BLANK

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	ND	0.5
2,6-DICHLOROPYRIDINE	ND	0.5

RESULTS FOR LFB
PERCENT RECOVERY

ANALYTE:	TRUE VALUE	RESULT	%REC
2-CHLOROPYRIDINE	6.0	6.4	107
2,6-DICHLOROPYRIDINE	5.0	5.5	110

RL = Reporting Limit

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NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : SG-07-189 (LOCATION SG-190)
Sample ID : 07B08241
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			03/23/07	WSD				

RESULTS FOR PYRIDINES

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	920 J	100
2,6-DICHLOROPYRIDINE	220	10

ND= NOT DETECTED

RESULTS FOR METHOD BLANK

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	ND	0.5
2,6-DICHLOROPYRIDINE	ND	0.5

RESULTS FOR LFB
PERCENT RECOVERY

ANALYTE:	TRUE VALUE	RESULT	%REC
2-CHLOROPYRIDINE	6.0	6.4	107
2,6-DICHLOROPYRIDINE	5.0	6.9	138

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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4/2/2007

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : SG-07-190 (LOCATION SG-191)
Sample ID : 07B08243
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			03/27/07	WSD				

RESULTS FOR PYRIDINES

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	26	10
2,6-DICHLOROPYRIDINE	ND	10

ND= NOT DETECTED

RESULTS FOR METHOD BLANK

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	ND	0.5
2,6-DICHLOROPYRIDINE	ND	0.5

RESULTS FOR LFB
PERCENT RECOVERY

ANALYTE:	TRUE VALUE	RESULT	%REC
2-CHLOROPYRIDINE	6.0	7.2	120
2,6-DICHLOROPYRIDINE	5.0	7.2	144

RL = Reporting Limit

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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4/2/2007

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01

Project Location: ROCHESTER, NY
LIMS-BAT #: LIMT-04559
Date Received: 3/15/2007
Job Number: 3616036009.01

Field Sample # : SG-07-191RE (LOCATION SG-192)

Sample ID : 07B08251
Sampled : 3/14/2007
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			03/24/07	WSD				

RESULTS FOR PYRIDINES

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	420	10
2,6-DICHLOROPYRIDINE	31	1.0

ND= NOT DETECTED

RESULTS FOR METHOD BLANK

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	ND	0.5
2,6-DICHLOROPYRIDINE	ND	0.5

RESULTS FOR LFB
PERCENT RECOVERY

ANALYTE:	TRUE VALUE	RESULT	%REC
2-CHLOROPYRIDINE	6.0	6.4	107
2,6-DICHLOROPYRIDINE	5.0	5.5	110

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NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Field Sample # : **SG-07-192** (LOCATION SG-188)
Sample ID : **07B08246**
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			03/22/07	WSD				

RESULTS FOR PYRIDINES

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	34	10
2,6-DICHLOROPYRIDINE	ND	10

ND= NOT DETECTED

RESULTS FOR METHOD BLANK

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	ND	0.5
2,6-DICHLOROPYRIDINE	ND	0.5

RESULTS FOR LFB
PERCENT RECOVERY

ANALYTE:	TRUE VALUE	RESULT	%REC
2-CHLOROPYRIDINE	6.0	6.1	102
2,6-DICHLOROPYRIDINE	5.0	5.7	114

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

JEFF BRANDOW
MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : SG-07-193 (LOCATION SG-193)
Sample ID : 07B08248
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			03/24/07	WSD				

RESULTS FOR PYRIDINES

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	1000	10
2,6-DICHLOROPYRIDINE	9.1	1.2

RESULTS FOR METHOD BLANK

ANALYTE:	SAMPLE RESULTS (ug/m^3)	REPORTING LIMIT (ug/m^3)
2-CHLOROPYRIDINE	ND	0.5
2,6-DICHLOROPYRIDINE	ND	0.5

RESULTS FOR LFB
PERCENT RECOVERY

ANALYTE:	TRUE VALUE	RESULT	%REC
2-CHLOROPYRIDINE	6.0	6.4	107
2,6-DICHLOROPYRIDINE	5.0	5.5	110

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con-test ANALYTICAL LABORATORY
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JEFF BRANDOW
MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-001 (LOCATION IA-002)
Sample ID : 07B08238
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	64	03/20/07	WSD	0.16			
Benzene	ug/m3	0.87	03/20/07	WSD	0.24			
Benzyl Chloride	ug/m3	ND	03/20/07	WSD	0.40			
Bromodichloromethane	ug/m3	ND	03/20/07	WSD	0.56			
Bromomethane	ug/m3	ND	03/20/07	WSD	0.32			
1,3-Butadiene	ug/m3	ND	03/20/07	WSD	0.16			
2-Butanone (MEK)	ug/m3	21	03/20/07	WSD	0.24			
Carbon Disulfide	ug/m3	0.40	03/20/07	WSD	0.24			
Carbon Tetrachloride	ug/m3	1.2	03/20/07	WSD	0.25			
Chlorobenzene	ug/m3	ND	03/20/07	WSD	0.40			
Chlorodibromomethane	ug/m3	ND	03/20/07	WSD	0.72			
Chloroethane	ug/m3	ND	03/20/07	WSD	0.40			
Chloroform	ug/m3	12	03/20/07	WSD	0.40			
Chloromethane	ug/m3	3.9	03/20/07	WSD	0.16			
Cyclohexane	ug/m3	ND	03/20/07	WSD	0.24			
1,2-Dibromoethane	ug/m3	ND	03/20/07	WSD	0.64			
1,2-Dichlorobenzene	ug/m3	ND	03/20/07	WSD	0.48			
1,3-Dichlorobenzene	ug/m3	ND	03/20/07	WSD	0.48			
1,4-Dichlorobenzene	ug/m3	ND	03/20/07	WSD	0.48			
Dichlorodifluoromethane	ug/m3	2.7	03/20/07	WSD	0.40			
1,1-Dichloroethane	ug/m3	ND	03/20/07	WSD	0.32			
1,2-Dichloroethane	ug/m3	ND	03/20/07	WSD	0.32			
1,1-Dichloroethylene	ug/m3	ND	03/20/07	WSD	0.32			
cis-1,2-Dichloroethylene	ug/m3	ND	03/20/07	WSD	0.32			
t-1,2-Dichloroethylene	ug/m3	ND	03/20/07	WSD	0.32			
1,2-Dichloropropane	ug/m3	ND	03/20/07	WSD	0.40			
cis-1,3-Dichloropropene	ug/m3	ND	03/20/07	WSD	0.40			
trans-1,3-Dichloropropene	ug/m3	ND	03/20/07	WSD	0.40			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	03/20/07	WSD	0.56			
Ethanol	ug/m3	75 J	03/20/07	WSD	0.32			

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NM = Not Measured
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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-001 (LOCATION IA-002)
Sample ID : 07B08238
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	ND	03/20/07	WSD	0.56			
Ethylbenzene	ug/m3	ND	03/20/07	WSD	0.32			
4-Ethyl Toluene	ug/m3	ND	03/20/07	WSD	0.40			
n-Heptane	ug/m3	0.56	03/20/07	WSD	0.32			
Hexachlorobutadiene	ug/m3	ND J	03/20/07	WSD	0.88			
Hexane	ug/m3	1.0	03/20/07	WSD	0.32			
2-Hexanone	ug/m3	ND	03/20/07	WSD	0.32			
Isopropanol	ug/m3	16	03/20/07	WSD	0.16			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	03/20/07	WSD	0.32			
Methylene Chloride	ug/m3	5.4	03/20/07	WSD	0.24			
4-Methyl-2-Pentanone (MIBK)	ug/m3	1.8	03/20/07	WSD	0.32			
Propene	ug/m3	ND	03/20/07	WSD	0.16			
Styrene	ug/m3	ND	03/20/07	WSD	0.32			
1,1,2,2-Tetrachloroethane	ug/m3	ND	03/20/07	WSD	0.56			
Tetrachloroethylene	ug/m3	ND	03/20/07	WSD	0.28			
Tetrahydrofuran	ug/m3	28	03/20/07	WSD	0.48			
Toluene	ug/m3	ND	03/20/07	WSD	0.32			
1,2,4-Trichlorobenzene	ug/m3	ND J	03/20/07	WSD	0.56			
1,1,1-Trichloroethane	ug/m3	ND	03/20/07	WSD	0.22			
1,1,2-Trichloroethane	ug/m3	ND	03/20/07	WSD	0.40			
Trichloroethylene	ug/m3	ND	03/20/07	WSD	0.22			
Trichlorofluoromethane	ug/m3	1.8	03/20/07	WSD	0.48			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	03/20/07	WSD	0.64			
1,2,4-Trimethylbenzene	ug/m3	ND	03/20/07	WSD	0.40			
1,3,5-Trimethylbenzene	ug/m3	ND	03/20/07	WSD	0.40			
Vinyl Acetate	ug/m3	ND	03/20/07	WSD	0.32			
Vinyl Chloride	ug/m3	ND	03/20/07	WSD	0.24			
m/p-Xylene	ug/m3	ND	03/20/07	WSD	0.32			
o-Xylene	ug/m3	ND	03/20/07	WSD	0.32			

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4/2/2007

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-001 (Loc IA-002)

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-002 (LOCATION IA-003)
Sample ID : 07B08240
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	16	03/20/07	WSD	0.08			
Benzene	ug/m3	1.3	03/20/07	WSD	0.12			
Benzyl Chloride	ug/m3	ND	03/20/07	WSD	0.20			
Bromodichloromethane	ug/m3	ND	03/20/07	WSD	0.28			
Bromomethane	ug/m3	ND	03/20/07	WSD	0.16			
1,3-Butadiene	ug/m3	ND	03/20/07	WSD	0.08			
2-Butanone (MEK)	ug/m3	8.0	03/20/07	WSD	0.12			
Carbon Disulfide	ug/m3	0.27	03/20/07	WSD	0.12			
Carbon Tetrachloride	ug/m3	4.8	03/20/07	WSD	0.13			
Chlorobenzene	ug/m3	0.53	03/20/07	WSD	0.20			
Chlorodibromomethane	ug/m3	ND	03/20/07	WSD	0.36			
Chloroethane	ug/m3	ND	03/20/07	WSD	0.20			
Chloroform	ug/m3	6.3 J	03/20/07	WSD	0.20			
Chloromethane	ug/m3	1.0 J	03/20/07	WSD	0.08			
Cyclohexane	ug/m3	ND	03/20/07	WSD	0.12			
1,2-Dibromoethane	ug/m3	ND	03/20/07	WSD	0.32			
1,2-Dichlorobenzene	ug/m3	ND	03/20/07	WSD	0.24			
1,3-Dichlorobenzene	ug/m3	ND	03/20/07	WSD	0.24			
1,4-Dichlorobenzene	ug/m3	ND	03/20/07	WSD	0.24			
Dichlorodifluoromethane	ug/m3	2.2 J	03/20/07	WSD	0.20			
1,1-Dichloroethane	ug/m3	ND	03/20/07	WSD	0.16			
1,2-Dichloroethane	ug/m3	ND	03/20/07	WSD	0.16			
1,1-Dichloroethylene	ug/m3	0.24 J	03/20/07	WSD	0.16			
cis-1,2-Dichloroethylene	ug/m3	ND	03/20/07	WSD	0.16			
t-1,2-Dichloroethylene	ug/m3	ND	03/20/07	WSD	0.16			
1,2-Dichloropropane	ug/m3	ND	03/20/07	WSD	0.20			
cis-1,3-Dichloropropene	ug/m3	ND	03/20/07	WSD	0.20			
trans-1,3-Dichloropropene	ug/m3	ND	03/20/07	WSD	0.20			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	03/20/07	WSD	0.28			
Ethanol	ug/m3	61 J	03/20/07	WSD	0.16			

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con-test ANALYTICAL LABORATORY
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JEFF BRANDOW
MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-002 (LOCATION IA-003)
Sample ID : 07B08240
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	ND	03/20/07	WSD	0.28			
Ethylbenzene	ug/m3	2.9	03/20/07	WSD	0.16			
4-Ethyl Toluene	ug/m3	1.0	03/20/07	WSD	0.20			
n-Heptane	ug/m3	0.38	03/20/07	WSD	0.16			
Hexachlorobutadiene	ug/m3	ND J	03/20/07	WSD	0.44			
Hexane	ug/m3	1.0 J	03/20/07	WSD	0.16			
2-Hexanone	ug/m3	0.46	03/20/07	WSD	0.16			
Isopropanol	ug/m3	25	03/20/07	WSD	0.08			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	03/20/07	WSD	0.16			
Methylene Chloride	ug/m3	2.1 J	03/20/07	WSD	0.12			
4-Methyl-2-Pentanone (MIBK)	ug/m3	5.2	03/20/07	WSD	0.16			
Propene	ug/m3	ND	03/20/07	WSD	0.08			
Styrene	ug/m3	0.29	03/20/07	WSD	0.16			
1,1,2,2-Tetrachloroethane	ug/m3	ND	03/20/07	WSD	0.28			
Tetrachloroethylene	ug/m3	1.1	03/20/07	WSD	0.14			
Tetrahydrofuran	ug/m3	12	03/20/07	WSD	0.24			
Toluene	ug/m3	13	03/20/07	WSD	0.16			
1,2,4-Trichlorobenzene	ug/m3	ND	03/20/07	WSD	0.28			
1,1,1-Trichloroethane	ug/m3	0.37	03/20/07	WSD	0.11			
1,1,2-Trichloroethane	ug/m3	ND	03/20/07	WSD	0.20			
Trichloroethylene	ug/m3	ND	03/20/07	WSD	0.11			
Trichlorofluoromethane	ug/m3	1.6	03/20/07	WSD	0.24			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.55	03/20/07	WSD	0.32			
1,2,4-Trimethylbenzene	ug/m3	2.7	03/20/07	WSD	0.20			
1,3,5-Trimethylbenzene	ug/m3	0.88	03/20/07	WSD	0.20			
Vinyl Acetate	ug/m3	ND	03/20/07	WSD	0.16			
Vinyl Chloride	ug/m3	ND	03/20/07	WSD	0.12			
m/p-Xylene	ug/m3	12	03/20/07	WSD	0.16			
o-Xylene	ug/m3	3.8	03/20/07	WSD	0.16			

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PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-002 (Loc IA-003)

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-002DUP (LOCATION IA-003)
Sample ID : 07B08250
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	16	03/22/07	WSD	0.50			
Benzene	ug/m3	1.3	03/22/07	WSD	0.75			
Benzyl Chloride	ug/m3	ND	03/22/07	WSD	1.3			
Bromodichloromethane	ug/m3	ND	03/22/07	WSD	1.8			
Bromomethane	ug/m3	ND	03/22/07	WSD	1.0			
1,3-Butadiene	ug/m3	ND	03/22/07	WSD	0.50			
2-Butanone (MEK)	ug/m3	6.3	03/22/07	WSD	0.75			
Carbon Disulfide	ug/m3	ND	03/22/07	WSD	0.75			
Carbon Tetrachloride	ug/m3	3.8	03/22/07	WSD	0.78			
Chlorobenzene	ug/m3	ND	03/22/07	WSD	1.3			
Chlorodibromomethane	ug/m3	ND	03/22/07	WSD	2.3			
Chloroethane	ug/m3	ND	03/22/07	WSD	1.3			
Chloroform	ug/m3	33 J	03/22/07	WSD	1.3			
Chloromethane	ug/m3	ND J	03/22/07	WSD	0.50			
Cyclohexane	ug/m3	ND	03/22/07	WSD	0.75			
1,2-Dibromoethane	ug/m3	ND	03/22/07	WSD	2.0			
1,2-Dichlorobenzene	ug/m3	ND	03/22/07	WSD	1.5			
1,3-Dichlorobenzene	ug/m3	ND	03/22/07	WSD	1.5			
1,4-Dichlorobenzene	ug/m3	ND	03/22/07	WSD	1.5			
Dichlorodifluoromethane	ug/m3	ND J	03/22/07	WSD	1.3			
1,1-Dichloroethane	ug/m3	ND	03/22/07	WSD	1.0			
1,2-Dichloroethane	ug/m3	ND	03/22/07	WSD	1.0			
1,1-Dichloroethylene	ug/m3	ND J	03/22/07	WSD	1.0			
cis-1,2-Dichloroethylene	ug/m3	ND	03/22/07	WSD	1.0			
t-1,2-Dichloroethylene	ug/m3	ND	03/22/07	WSD	1.0			
1,2-Dichloropropane	ug/m3	ND	03/22/07	WSD	1.3			
cis-1,3-Dichloropropene	ug/m3	ND	03/22/07	WSD	1.3			
trans-1,3-Dichloropropene	ug/m3	ND	03/22/07	WSD	1.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	03/22/07	WSD	1.8			
Ethanol	ug/m3	67	03/22/07	WSD	1.0			

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* = See end of report for comments and notes applying to this sample

con-test ANALYTICAL LABORATORY
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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : **IA-07-002DUP** (LOCATION IA-003)
Sample ID : **07B08250**
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Ethyl Acetate	ug/m3	ND	03/22/07	WSD	1.8			
Ethylbenzene	ug/m3	2.3	03/22/07	WSD	1.0			
4-Ethyl Toluene	ug/m3	ND	03/22/07	WSD	1.3			
n-Heptane	ug/m3	ND	03/22/07	WSD	1.0			
Hexachlorobutadiene	ug/m3	ND	03/22/07	WSD	2.8			
Hexane	ug/m3	4.7 J	03/22/07	WSD	1.0			
2-Hexanone	ug/m3	ND	03/22/07	WSD	1.0			
Isopropanol	ug/m3	22	03/22/07	WSD	0.50			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	03/22/07	WSD	1.0			
Methylene Chloride	ug/m3	12 J	03/22/07	WSD	0.75			
4-Methyl-2-Pentanone (MIBK)	ug/m3	3.8	03/22/07	WSD	1.0			
Propene	ug/m3	ND	03/22/07	WSD	0.50			
Styrene	ug/m3	ND	03/22/07	WSD	1.0			
1,1,2,2-Tetrachloroethane	ug/m3	ND	03/22/07	WSD	1.8			
Tetrachloroethylene	ug/m3	ND	03/22/07	WSD	0.85			
Tetrahydrofuran	ug/m3	9.3	03/22/07	WSD	1.5			
Toluene	ug/m3	14	03/22/07	WSD	1.0			
1,2,4-Trichlorobenzene	ug/m3	ND	03/22/07	WSD	1.8			
1,1,1-Trichloroethane	ug/m3	ND	03/22/07	WSD	0.68			
1,1,2-Trichloroethane	ug/m3	ND	03/22/07	WSD	1.3			
Trichloroethylene	ug/m3	ND	03/22/07	WSD	0.68			
Trichlorofluoromethane	ug/m3	2.2	03/22/07	WSD	1.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	03/22/07	WSD	2.0			
1,2,4-Trimethylbenzene	ug/m3	2.2	03/22/07	WSD	1.3			
1,3,5-Trimethylbenzene	ug/m3	ND	03/22/07	WSD	1.3			
Vinyl Acetate	ug/m3	ND	03/22/07	WSD	1.0			
Vinyl Chloride	ug/m3	ND	03/22/07	WSD	0.75			
m/p-Xylene	ug/m3	9.4	03/22/07	WSD	1.0			
o-Xylene	ug/m3	3.0	03/22/07	WSD	1.0			

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JEFF BRANDOW
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511 CONGRESS STREET
PORTLAND, ME 04101

4/2/2007

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-002DUP (Loc IA-003)

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
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NM = Not Measured
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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-003 (LOCATION IA-004)
Sample ID : 07B08242
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	35	03/20/07	WSD	0.08			
Benzene	ug/m3	1.3	03/20/07	WSD	0.12			
Benzyl Chloride	ug/m3	ND	03/20/07	WSD	0.20			
Bromodichloromethane	ug/m3	ND	03/20/07	WSD	0.28			
Bromomethane	ug/m3	ND	03/20/07	WSD	0.16			
1,3-Butadiene	ug/m3	ND	03/20/07	WSD	0.08			
2-Butanone (MEK)	ug/m3	94	03/20/07	WSD	0.12			
Carbon Disulfide	ug/m3	0.16	03/20/07	WSD	0.12			
Carbon Tetrachloride	ug/m3	0.55	03/20/07	WSD	0.13			
Chlorobenzene	ug/m3	ND	03/20/07	WSD	0.20			
Chlorodibromomethane	ug/m3	ND	03/20/07	WSD	0.36			
Chloroethane	ug/m3	ND	03/20/07	WSD	0.20			
Chloroform	ug/m3	2.9	03/20/07	WSD	0.20			
Chloromethane	ug/m3	1.0	03/20/07	WSD	0.08			
Cyclohexane	ug/m3	ND	03/20/07	WSD	0.12			
1,2-Dibromoethane	ug/m3	ND	03/20/07	WSD	0.32			
1,2-Dichlorobenzene	ug/m3	ND	03/20/07	WSD	0.24			
1,3-Dichlorobenzene	ug/m3	ND	03/20/07	WSD	0.24			
1,4-Dichlorobenzene	ug/m3	ND	03/20/07	WSD	0.24			
Dichlorodifluoromethane	ug/m3	2.0	03/20/07	WSD	0.20			
1,1-Dichloroethane	ug/m3	ND	03/20/07	WSD	0.16			
1,2-Dichloroethane	ug/m3	ND	03/20/07	WSD	0.16			
1,1-Dichloroethylene	ug/m3	ND	03/20/07	WSD	0.16			
cis-1,2-Dichloroethylene	ug/m3	ND	03/20/07	WSD	0.16			
t-1,2-Dichloroethylene	ug/m3	ND	03/20/07	WSD	0.16			
1,2-Dichloropropane	ug/m3	ND	03/20/07	WSD	0.20			
cis-1,3-Dichloropropene	ug/m3	ND	03/20/07	WSD	0.20			
trans-1,3-Dichloropropene	ug/m3	ND	03/20/07	WSD	0.20			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	03/20/07	WSD	0.28			
Ethanol	ug/m3	ND	03/20/07	WSD	0.16			

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Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : **IA-07-003** (LOCATION IA-004)
Sample ID : **07B08242**
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	ND	03/20/07	WSD	0.28			
Ethylbenzene	ug/m3	5.7	03/20/07	WSD	0.16			
4-Ethyl Toluene	ug/m3	1.6	03/20/07	WSD	0.20			
n-Heptane	ug/m3	1.00	03/20/07	WSD	0.16			
Hexachlorobutadiene	ug/m3	ND J	03/20/07	WSD	0.44			
Hexane	ug/m3	1.4	03/20/07	WSD	0.16			
2-Hexanone	ug/m3	ND	03/20/07	WSD	0.16			
Isopropanol	ug/m3	5900	03/20/07	WSD	0.08			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	03/20/07	WSD	0.16			
Methylene Chloride	ug/m3	2.0	03/20/07	WSD	0.12			
4-Methyl-2-Pentanone (MIBK)	ug/m3	2.4	03/20/07	WSD	0.16			
Propene	ug/m3	ND	03/20/07	WSD	0.08			
Styrene	ug/m3	0.49	03/20/07	WSD	0.16			
1,1,2,2-Tetrachloroethane	ug/m3	ND	03/20/07	WSD	0.28			
Tetrachloroethylene	ug/m3	0.79	03/20/07	WSD	0.14			
Tetrahydrofuran	ug/m3	100	03/20/07	WSD	0.24			
Toluene	ug/m3	21	03/20/07	WSD	0.16			
1,2,4-Trichlorobenzene	ug/m3	ND J	03/20/07	WSD	0.28			
1,1,1-Trichloroethane	ug/m3	0.35	03/20/07	WSD	0.11			
1,1,2-Trichloroethane	ug/m3	ND	03/20/07	WSD	0.20			
Trichloroethylene	ug/m3	0.30	03/20/07	WSD	0.11			
Trichlorofluoromethane	ug/m3	1.6	03/20/07	WSD	0.24			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.58	03/20/07	WSD	0.32			
1,2,4-Trimethylbenzene	ug/m3	4.3	03/20/07	WSD	0.20			
1,3,5-Trimethylbenzene	ug/m3	1.5	03/20/07	WSD	0.20			
Vinyl Acetate	ug/m3	1.8	03/20/07	WSD	0.16			
Vinyl Chloride	ug/m3	ND	03/20/07	WSD	0.12			
m/p-Xylene	ug/m3	19	03/20/07	WSD	0.16			
o-Xylene	ug/m3	6.0	03/20/07	WSD	0.16			

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Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-003 (Loc IA-004)

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-004 (LOCATION IA-005)
Sample ID : 07B08244
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	33	03/20/07	WSD	0.08			
Benzene	ug/m3	1.1	03/20/07	WSD	0.12			
Benzyl Chloride	ug/m3	ND	03/20/07	WSD	0.20			
Bromodichloromethane	ug/m3	ND	03/20/07	WSD	0.28			
Bromomethane	ug/m3	ND	03/20/07	WSD	0.16			
1,3-Butadiene	ug/m3	ND	03/20/07	WSD	0.08			
2-Butanone (MEK)	ug/m3	4.2	03/20/07	WSD	0.12			
Carbon Disulfide	ug/m3	ND	03/20/07	WSD	0.12			
Carbon Tetrachloride	ug/m3	0.53	03/20/07	WSD	0.13			
Chlorobenzene	ug/m3	ND	03/20/07	WSD	0.20			
Chlorodibromomethane	ug/m3	ND	03/20/07	WSD	0.36			
Chloroethane	ug/m3	ND	03/20/07	WSD	0.20			
Chloroform	ug/m3	0.49	03/20/07	WSD	0.20			
Chloromethane	ug/m3	0.97	03/20/07	WSD	0.08			
Cyclohexane	ug/m3	ND	03/20/07	WSD	0.12			
1,2-Dibromoethane	ug/m3	ND	03/20/07	WSD	0.32			
1,2-Dichlorobenzene	ug/m3	ND	03/20/07	WSD	0.24			
1,3-Dichlorobenzene	ug/m3	ND	03/20/07	WSD	0.24			
1,4-Dichlorobenzene	ug/m3	ND	03/20/07	WSD	0.24			
Dichlorodifluoromethane	ug/m3	0.30	03/20/07	WSD	0.20			
1,1-Dichloroethane	ug/m3	ND	03/20/07	WSD	0.16			
1,2-Dichloroethane	ug/m3	ND	03/20/07	WSD	0.16			
1,1-Dichloroethylene	ug/m3	ND	03/20/07	WSD	0.16			
cis-1,2-Dichloroethylene	ug/m3	ND	03/20/07	WSD	0.16			
t-1,2-Dichloroethylene	ug/m3	ND	03/20/07	WSD	0.16			
1,2-Dichloropropane	ug/m3	ND	03/20/07	WSD	0.20			
cis-1,3-Dichloropropene	ug/m3	ND	03/20/07	WSD	0.20			
trans-1,3-Dichloropropene	ug/m3	ND	03/20/07	WSD	0.20			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	03/20/07	WSD	0.28			
Ethanol	ug/m3	38 J	03/20/07	WSD	0.16			

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : **IA-07-004** (LOCATION IA-005)
Sample ID : **07B08244** Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	5.4	03/20/07	WSD	0.28			
Ethylbenzene	ug/m3	2.5	03/20/07	WSD	0.16			
4-Ethyl Toluene	ug/m3	12	03/20/07	WSD	0.20			
n-Heptane	ug/m3	4.6	03/20/07	WSD	0.16			
Hexachlorobutadiene	ug/m3	ND J	03/20/07	WSD	0.44			
Hexane	ug/m3	2.1	03/20/07	WSD	0.16			
2-Hexanone	ug/m3	0.29	03/20/07	WSD	0.16			
Isopropanol	ug/m3	480	03/20/07	WSD	0.08			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	03/20/07	WSD	0.16			
Methylene Chloride	ug/m3	1.2	03/20/07	WSD	0.12			
4-Methyl-2-Pentanone (MIBK)	ug/m3	1.5	03/20/07	WSD	0.16			
Propene	ug/m3	ND	03/20/07	WSD	0.08			
Styrene	ug/m3	0.43	03/20/07	WSD	0.16			
1,1,2,2-Tetrachloroethane	ug/m3	ND	03/20/07	WSD	0.28			
Tetrachloroethylene	ug/m3	0.43	03/20/07	WSD	0.14			
Tetrahydrofuran	ug/m3	0.72	03/20/07	WSD	0.24			
Toluene	ug/m3	14	03/20/07	WSD	0.16			
1,2,4-Trichlorobenzene	ug/m3	ND J	03/20/07	WSD	0.28			
1,1,1-Trichloroethane	ug/m3	ND	03/20/07	WSD	0.11			
1,1,2-Trichloroethane	ug/m3	ND	03/20/07	WSD	0.20			
Trichloroethylene	ug/m3	ND	03/20/07	WSD	0.11			
Trichlorofluoromethane	ug/m3	1.9	03/20/07	WSD	0.24			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.55	03/20/07	WSD	0.32			
1,2,4-Trimethylbenzene	ug/m3	29	03/20/07	WSD	0.20			
1,3,5-Trimethylbenzene	ug/m3	10	03/20/07	WSD	0.20			
Vinyl Acetate	ug/m3	1.4	03/20/07	WSD	0.16			
Vinyl Chloride	ug/m3	ND	03/20/07	WSD	0.12			
m/p-Xylene	ug/m3	8.7	03/20/07	WSD	0.16			
o-Xylene	ug/m3	2.9	03/20/07	WSD	0.16			

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Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-004 (Loc IA-005)

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-005 (LOCATION IA-001)
Sample ID : 07B08245
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	33	03/21/07	WSD	0.50			
Benzene	ug/m3	ND	03/21/07	WSD	0.75			
Benzyl Chloride	ug/m3	ND	03/21/07	WSD	1.3			
Bromodichloromethane	ug/m3	ND	03/21/07	WSD	1.8			
Bromomethane	ug/m3	ND	03/21/07	WSD	1.0			
1,3-Butadiene	ug/m3	ND	03/21/07	WSD	0.50			
2-Butanone (MEK)	ug/m3	4.3	03/21/07	WSD	0.75			
Carbon Disulfide	ug/m3	ND	03/21/07	WSD	0.75			
Carbon Tetrachloride	ug/m3	ND	03/21/07	WSD	0.78			
Chlorobenzene	ug/m3	ND	03/21/07	WSD	1.3			
Chlorodibromomethane	ug/m3	ND	03/21/07	WSD	2.3			
Chloroethane	ug/m3	ND	03/21/07	WSD	1.3			
Chloroform	ug/m3	ND	03/21/07	WSD	1.3			
Chloromethane	ug/m3	ND	03/21/07	WSD	0.50			
Cyclohexane	ug/m3	ND	03/21/07	WSD	0.75			
1,2-Dibromoethane	ug/m3	ND	03/21/07	WSD	2.0			
1,2-Dichlorobenzene	ug/m3	ND	03/21/07	WSD	1.5			
1,3-Dichlorobenzene	ug/m3	ND	03/21/07	WSD	1.5			
1,4-Dichlorobenzene	ug/m3	ND	03/21/07	WSD	1.5			
Dichlorodifluoromethane	ug/m3	ND	03/21/07	WSD	1.3			
1,1-Dichloroethane	ug/m3	ND	03/21/07	WSD	1.0			
1,2-Dichloroethane	ug/m3	ND	03/21/07	WSD	1.0			
1,1-Dichloroethylene	ug/m3	ND	03/21/07	WSD	1.0			
cis-1,2-Dichloroethylene	ug/m3	ND	03/21/07	WSD	1.0			
t-1,2-Dichloroethylene	ug/m3	ND	03/21/07	WSD	1.0			
1,2-Dichloropropane	ug/m3	ND	03/21/07	WSD	1.3			
cis-1,3-Dichloropropene	ug/m3	ND	03/21/07	WSD	1.3			
trans-1,3-Dichloropropene	ug/m3	ND	03/21/07	WSD	1.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	03/21/07	WSD	1.8			
Ethanol	ug/m3	410	03/21/07	WSD	1.0			

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-005 (LOCATION IA-001)
Sample ID : 07B08245
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	ND	03/21/07	WSD	1.8			
Ethylbenzene	ug/m3	2.7	03/21/07	WSD	1.0			
4-Ethyl Toluene	ug/m3	ND	03/21/07	WSD	1.3			
n-Heptane	ug/m3	1.3	03/21/07	WSD	1.0			
Hexachlorobutadiene	ug/m3	ND	03/21/07	WSD	2.8			
Hexane	ug/m3	ND	03/21/07	WSD	1.0			
2-Hexanone	ug/m3	ND	03/21/07	WSD	1.0			
Isopropanol	ug/m3	220	03/21/07	WSD	0.50			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	03/21/07	WSD	1.0			
Methylene Chloride	ug/m3	1.4	03/21/07	WSD	0.75			
4-Methyl-2-Pentanone (MIBK)	ug/m3	2.5	03/21/07	WSD	1.0			
Propene	ug/m3	ND	03/21/07	WSD	0.50			
Styrene	ug/m3	1.2	03/21/07	WSD	1.0			
1,1,2,2-Tetrachloroethane	ug/m3	ND	03/21/07	WSD	1.8			
Tetrachloroethylene	ug/m3	ND	03/21/07	WSD	0.85			
Tetrahydrofuran	ug/m3	ND	03/21/07	WSD	1.5			
Toluene	ug/m3	22	03/21/07	WSD	1.0			
1,2,4-Trichlorobenzene	ug/m3	ND	03/21/07	WSD	1.8			
1,1,1-Trichloroethane	ug/m3	ND	03/21/07	WSD	0.68			
1,1,2-Trichloroethane	ug/m3	ND	03/21/07	WSD	1.3			
Trichloroethylene	ug/m3	ND	03/21/07	WSD	0.68			
Trichlorofluoromethane	ug/m3	11	03/21/07	WSD	1.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	03/21/07	WSD	2.0			
1,2,4-Trimethylbenzene	ug/m3	2.9	03/21/07	WSD	1.3			
1,3,5-Trimethylbenzene	ug/m3	ND	03/21/07	WSD	1.3			
Vinyl Acetate	ug/m3	ND J	03/21/07	WSD	1.0			
Vinyl Chloride	ug/m3	ND	03/21/07	WSD	0.75			
m/p-Xylene	ug/m3	8.9	03/21/07	WSD	1.0			
o-Xylene	ug/m3	2.8	03/21/07	WSD	1.0			

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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ANALYTICAL LABORATORY
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JEFF BRANDOW
MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-005 (Loc IA-001)

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : **IA-07-006** (LOCATION IA-006)
Sample ID : **07B08247**
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	360	03/22/07	WSD	0.50			
Benzene	ug/m3	1.6	03/22/07	WSD	0.75			
Benzyl Chloride	ug/m3	ND	03/22/07	WSD	1.3			
Bromodichloromethane	ug/m3	ND	03/22/07	WSD	1.8			
Bromomethane	ug/m3	ND	03/22/07	WSD	1.0			
1,3-Butadiene	ug/m3	ND	03/22/07	WSD	0.50			
2-Butanone (MEK)	ug/m3	52	03/22/07	WSD	0.75			
Carbon Disulfide	ug/m3	ND	03/22/07	WSD	0.75			
Carbon Tetrachloride	ug/m3	ND	03/22/07	WSD	0.78			
Chlorobenzene	ug/m3	ND	03/22/07	WSD	1.3			
Chlorodibromomethane	ug/m3	ND	03/22/07	WSD	2.3			
Chloroethane	ug/m3	ND	03/22/07	WSD	1.3			
Chloroform	ug/m3	3.3	03/22/07	WSD	1.3			
Chloromethane	ug/m3	ND	03/22/07	WSD	0.50			
Cyclohexane	ug/m3	0.95	03/22/07	WSD	0.75			
1,2-Dibromoethane	ug/m3	ND	03/22/07	WSD	2.0			
1,2-Dichlorobenzene	ug/m3	ND	03/22/07	WSD	1.5			
1,3-Dichlorobenzene	ug/m3	ND	03/22/07	WSD	1.5			
1,4-Dichlorobenzene	ug/m3	ND	03/22/07	WSD	1.5			
Dichlorodifluoromethane	ug/m3	ND	03/22/07	WSD	1.3			
1,1-Dichloroethane	ug/m3	ND	03/22/07	WSD	1.0			
1,2-Dichloroethane	ug/m3	ND	03/22/07	WSD	1.0			
1,1-Dichloroethylene	ug/m3	ND	03/22/07	WSD	1.0			
cis-1,2-Dichloroethylene	ug/m3	ND	03/22/07	WSD	1.0			
t-1,2-Dichloroethylene	ug/m3	ND	03/22/07	WSD	1.0			
1,2-Dichloropropane	ug/m3	ND	03/22/07	WSD	1.3			
cis-1,3-Dichloropropene	ug/m3	ND	03/22/07	WSD	1.3			
trans-1,3-Dichloropropene	ug/m3	ND	03/22/07	WSD	1.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	03/22/07	WSD	1.8			
Ethanol	ug/m3	340	03/22/07	WSD	1.0			

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MACTEC, INC. - ME
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PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : IA-07-006 (LOCATION IA-006)
Sample ID : 07B08247
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	ND	03/22/07	WSD	1.8			
Ethylbenzene	ug/m3	6.3	03/22/07	WSD	1.0			
4-Ethyl Toluene	ug/m3	290	03/22/07	WSD	1.3			
n-Heptane	ug/m3	14	03/22/07	WSD	1.0			
Hexachlorobutadiene	ug/m3	ND	03/22/07	WSD	2.8			
Hexane	ug/m3	3.1	03/22/07	WSD	1.0			
2-Hexanone	ug/m3	ND	03/22/07	WSD	1.0			
Isopropanol	ug/m3	310	03/22/07	WSD	0.50			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	03/22/07	WSD	1.0			
Methylene Chloride	ug/m3	13	03/22/07	WSD	0.75			
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	03/22/07	WSD	1.0			
Propene	ug/m3	ND	03/22/07	WSD	0.50			
Styrene	ug/m3	ND	03/22/07	WSD	1.0			
1,1,2,2-Tetrachloroethane	ug/m3	ND	03/22/07	WSD	1.8			
Tetrachloroethylene	ug/m3	ND	03/22/07	WSD	0.85			
Tetrahydrofuran	ug/m3	ND	03/22/07	WSD	1.5			
Toluene	ug/m3	22	03/22/07	WSD	1.0			
1,2,4-Trichlorobenzene	ug/m3	ND	03/22/07	WSD	1.8			
1,1,1-Trichloroethane	ug/m3	ND	03/22/07	WSD	0.68			
1,1,2-Trichloroethane	ug/m3	ND	03/22/07	WSD	1.3			
Trichloroethylene	ug/m3	ND	03/22/07	WSD	0.68			
Trichlorofluoromethane	ug/m3	2.7	03/22/07	WSD	1.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	03/22/07	WSD	2.0			
1,2,4-Trimethylbenzene	ug/m3	670	03/22/07	WSD	1.3			
1,3,5-Trimethylbenzene	ug/m3	260	03/22/07	WSD	1.3			
Vinyl Acetate	ug/m3	ND	03/22/07	WSD	1.0			
Vinyl Chloride	ug/m3	ND	03/22/07	WSD	0.75			
m/p-Xylene	ug/m3	15	03/22/07	WSD	1.0			
o-Xylene	ug/m3	6.3	03/22/07	WSD	1.0			

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4/2/2007

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01

Project Location: ROCHESTER, NY
LIMS-BAT #: LIMT-04559
Date Received: 3/15/2007
Job Number: 3616036009.01

Field Sample # : IA-07-006 (Loc IA-006)

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : **OA-07-001** (LOCATION OA-001)
Sample ID : **07B08249**
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Acetone	ug/m3	14	03/22/07	WSD	0.50			
Benzene	ug/m3	1.1	03/22/07	WSD	0.75			
Benzyl Chloride	ug/m3	ND	03/22/07	WSD	1.3			
Bromodichloromethane	ug/m3	ND	03/22/07	WSD	1.8			
Bromomethane	ug/m3	ND	03/22/07	WSD	1.0			
1,3-Butadiene	ug/m3	ND	03/22/07	WSD	0.50			
2-Butanone (MEK)	ug/m3	2.4	03/22/07	WSD	0.75			
Carbon Disulfide	ug/m3	ND	03/22/07	WSD	0.75			
Carbon Tetrachloride	ug/m3	ND	03/22/07	WSD	0.78			
Chlorobenzene	ug/m3	ND	03/22/07	WSD	1.3			
Chlorodibromomethane	ug/m3	ND	03/22/07	WSD	2.3			
Chloroethane	ug/m3	ND	03/22/07	WSD	1.3			
Chloroform	ug/m3	2.1	03/22/07	WSD	1.3			
Chloromethane	ug/m3	ND	03/22/07	WSD	0.50			
Cyclohexane	ug/m3	ND	03/22/07	WSD	0.75			
1,2-Dibromoethane	ug/m3	ND	03/22/07	WSD	2.0			
1,2-Dichlorobenzene	ug/m3	ND	03/22/07	WSD	1.5			
1,3-Dichlorobenzene	ug/m3	ND	03/22/07	WSD	1.5			
1,4-Dichlorobenzene	ug/m3	ND	03/22/07	WSD	1.5			
Dichlorodifluoromethane	ug/m3	ND	03/22/07	WSD	1.3			
1,1-Dichloroethane	ug/m3	ND	03/22/07	WSD	1.0			
1,2-Dichloroethane	ug/m3	ND	03/22/07	WSD	1.0			
1,1-Dichloroethylene	ug/m3	ND	03/22/07	WSD	1.0			
cis-1,2-Dichloroethylene	ug/m3	ND	03/22/07	WSD	1.0			
t-1,2-Dichloroethylene	ug/m3	ND	03/22/07	WSD	1.0			
1,2-Dichloropropane	ug/m3	ND	03/22/07	WSD	1.3			
cis-1,3-Dichloropropene	ug/m3	ND	03/22/07	WSD	1.3			
trans-1,3-Dichloropropene	ug/m3	ND	03/22/07	WSD	1.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	03/22/07	WSD	1.8			
Ethanol	ug/m3	33	03/22/07	WSD	1.0			

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : OA-07-001 (LOCATION OA-001)
Sample ID : 07B08249
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Ethyl Acetate	ug/m3	ND	03/22/07	WSD	1.8			
Ethylbenzene	ug/m3	2.4	03/22/07	WSD	1.0			
4-Ethyl Toluene	ug/m3	ND	03/22/07	WSD	1.3			
n-Heptane	ug/m3	ND	03/22/07	WSD	1.0			
Hexachlorobutadiene	ug/m3	ND	03/22/07	WSD	2.8			
Hexane	ug/m3	ND	03/22/07	WSD	1.0			
2-Hexanone	ug/m3	ND	03/22/07	WSD	1.0			
Isopropanol	ug/m3	3.8	03/22/07	WSD	0.50			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	03/22/07	WSD	1.0			
Methylene Chloride	ug/m3	3.2	03/22/07	WSD	0.75			
4-Methyl-2-Pentanone (MIBK)	ug/m3	1.6	03/22/07	WSD	1.0			
Propene	ug/m3	ND	03/22/07	WSD	0.50			
Styrene	ug/m3	ND	03/22/07	WSD	1.0			
1,1,2,2-Tetrachloroethane	ug/m3	ND	03/22/07	WSD	1.8			
Tetrachloroethylene	ug/m3	ND	03/22/07	WSD	0.85			
Tetrahydrofuran	ug/m3	ND	03/22/07	WSD	1.5			
Toluene	ug/m3	17	03/22/07	WSD	1.0			
1,2,4-Trichlorobenzene	ug/m3	ND	03/22/07	WSD	1.8			
1,1,1-Trichloroethane	ug/m3	ND	03/22/07	WSD	0.68			
1,1,2-Trichloroethane	ug/m3	ND	03/22/07	WSD	1.3			
Trichloroethylene	ug/m3	ND	03/22/07	WSD	0.68			
Trichlorofluoromethane	ug/m3	1.5	03/22/07	WSD	1.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	03/22/07	WSD	2.0			
1,2,4-Trimethylbenzene	ug/m3	ND	03/22/07	WSD	1.3			
1,3,5-Trimethylbenzene	ug/m3	ND	03/22/07	WSD	1.3			
Vinyl Acetate	ug/m3	ND	03/22/07	WSD	1.0			
Vinyl Chloride	ug/m3	ND	03/22/07	WSD	0.75			
m/p-Xylene	ug/m3	7.7	03/22/07	WSD	1.0			
o-Xylene	ug/m3	2.3	03/22/07	WSD	1.0			

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Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : **OA-07-001** (Loc OA-001)

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : SG-07-188 (LOCATION SG-189)
Sample ID : 07B08239
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	ND	03/24/07	WSD	40			
Benzene	ug/m3	1500	03/24/07	WSD	60			
Benzyl Chloride	ug/m3	ND	03/24/07	WSD	100			
Bromodichloromethane	ug/m3	ND	03/24/07	WSD	140			
Bromomethane	ug/m3	ND	03/24/07	WSD	80			
1,3-Butadiene	ug/m3	ND	03/24/07	WSD	40			
2-Butanone (MEK)	ug/m3	ND	03/24/07	WSD	60			
Carbon Disulfide	ug/m3	330	03/24/07	WSD	60			
Carbon Tetrachloride	ug/m3	ND	03/24/07	WSD	62			
Chlorobenzene	ug/m3	270	03/24/07	WSD	100			
Chlorodibromomethane	ug/m3	ND	03/24/07	WSD	180			
Chloroethane	ug/m3	550	03/24/07	WSD	100			
Chloroform	ug/m3	470000	03/24/07	WSD	100			
Chloromethane	ug/m3	78	03/24/07	WSD	40			
Cyclohexane	ug/m3	150000	03/24/07	WSD	60			
1,2-Dibromoethane	ug/m3	ND	03/24/07	WSD	160			
1,2-Dichlorobenzene	ug/m3	ND	03/24/07	WSD	120			
1,3-Dichlorobenzene	ug/m3	ND	03/24/07	WSD	120			
1,4-Dichlorobenzene	ug/m3	ND	03/24/07	WSD	120			
Dichlorodifluoromethane	ug/m3	ND	03/24/07	WSD	100			
1,1-Dichloroethane	ug/m3	ND	03/24/07	WSD	80			
1,2-Dichloroethane	ug/m3	ND	03/24/07	WSD	80			
1,1-Dichloroethylene	ug/m3	ND	03/24/07	WSD	80			
cis-1,2-Dichloroethylene	ug/m3	ND	03/24/07	WSD	80			
t-1,2-Dichloroethylene	ug/m3	ND	03/24/07	WSD	80			
1,2-Dichloropropane	ug/m3	ND	03/24/07	WSD	100			
cis-1,3-Dichloropropene	ug/m3	ND	03/24/07	WSD	100			
trans-1,3-Dichloropropene	ug/m3	ND	03/24/07	WSD	100			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	03/24/07	WSD	140			
Ethanol	ug/m3	1500	03/24/07	WSD	80			

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NM = Not Measured
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PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : **SG-07-188** (LOCATION SG-189)
Sample ID : **07B08239**
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Ethyl Acetate	ug/m3	ND	03/24/07	WSD	140			
Ethylbenzene	ug/m3	110	03/24/07	WSD	80			
4-Ethyl Toluene	ug/m3	ND	03/24/07	WSD	100			
n-Heptane	ug/m3	1400	03/24/07	WSD	80			
Hexachlorobutadiene	ug/m3	ND	03/24/07	WSD	220			
Hexane	ug/m3	48000	03/24/07	WSD	80			
2-Hexanone	ug/m3	ND	03/24/07	WSD	80			
Isopropanol	ug/m3	2700	03/24/07	WSD	40			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	03/24/07	WSD	80			
Methylene Chloride	ug/m3	7600	03/24/07	WSD	60			
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	03/24/07	WSD	80			
Propene	ug/m3	ND	03/24/07	WSD	40			
Styrene	ug/m3	ND	03/24/07	WSD	80			
1,1,2,2-Tetrachloroethane	ug/m3	180	03/24/07	WSD	140			
Tetrachloroethylene	ug/m3	9000	03/24/07	WSD	68			
Tetrahydrofuran	ug/m3	ND	03/24/07	WSD	120			
Toluene	ug/m3	8100	03/24/07	WSD	80			
1,2,4-Trichlorobenzene	ug/m3	ND	03/24/07	WSD	140			
1,1,1-Trichloroethane	ug/m3	ND	03/24/07	WSD	54			
1,1,2-Trichloroethane	ug/m3	ND	03/24/07	WSD	100			
Trichloroethylene	ug/m3	4000	03/24/07	WSD	54			
Trichlorofluoromethane	ug/m3	ND	03/24/07	WSD	120			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	03/24/07	WSD	160			
1,2,4-Trimethylbenzene	ug/m3	ND	03/24/07	WSD	100			
1,3,5-Trimethylbenzene	ug/m3	ND	03/24/07	WSD	100			
Vinyl Acetate	ug/m3	ND 3	03/24/07	WSD	80			
Vinyl Chloride	ug/m3	2200	03/24/07	WSD	60			
m/p-Xylene	ug/m3	190	03/24/07	WSD	80			
o-Xylene	ug/m3	ND	03/24/07	WSD	80			

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

JEFF BRANDOW
MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

4/2/2007

Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : SG-07-188 (Loc SG-189)

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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JEFF BRANDOW
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511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : SG-07-189 (LOCATION SG-190)
Sample ID : *07B08241
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	76	03/23/07	WSD	4.0			
Benzene	ug/m3	130	03/23/07	WSD	6.0			
Benzyl Chloride	ug/m3	ND	03/23/07	WSD	10			
Bromodichloromethane	ug/m3	ND	03/23/07	WSD	14			
Bromomethane	ug/m3	ND	03/23/07	WSD	8.0			
1,3-Butadiene	ug/m3	ND	03/23/07	WSD	4.0			
2-Butanone (MEK)	ug/m3	92 J	03/23/07	WSD	6.0			
Carbon Disulfide	ug/m3	42	03/23/07	WSD	6.0			
Carbon Tetrachloride	ug/m3	230	03/23/07	WSD	6.2			
Chlorobenzene	ug/m3	1000	03/23/07	WSD	10			
Chlorodibromomethane	ug/m3	ND	03/23/07	WSD	18			
Chloroethane	ug/m3	ND	03/23/07	WSD	10			
Chloroform	ug/m3	4900	03/23/07	WSD	10			
Chloromethane	ug/m3	ND	03/23/07	WSD	4.0			
Cyclohexane	ug/m3	ND	03/23/07	WSD	6.0			
1,2-Dibromoethane	ug/m3	ND	03/23/07	WSD	16			
1,2-Dichlorobenzene	ug/m3	ND	03/23/07	WSD	12			
1,3-Dichlorobenzene	ug/m3	ND	03/23/07	WSD	12			
1,4-Dichlorobenzene	ug/m3	ND	03/23/07	WSD	12			
Dichlorodifluoromethane	ug/m3	ND	03/23/07	WSD	10			
1,1-Dichloroethane	ug/m3	ND	03/23/07	WSD	8.0			
1,2-Dichloroethane	ug/m3	ND	03/23/07	WSD	8.0			
1,1-Dichloroethylene	ug/m3	110	03/23/07	WSD	8.0			
cis-1,2-Dichloroethylene	ug/m3	14	03/23/07	WSD	8.0			
t-1,2-Dichloroethylene	ug/m3	ND	03/23/07	WSD	8.0			
1,2-Dichloropropane	ug/m3	ND	03/23/07	WSD	10			
cis-1,3-Dichloropropene	ug/m3	ND	03/23/07	WSD	10			
trans-1,3-Dichloropropene	ug/m3	ND	03/23/07	WSD	10			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	03/23/07	WSD	14			
Ethanol	ug/m3	ND	03/23/07	WSD	8.0			

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JEFF BRANDOW
MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : **SG-07-189** (LOCATION SG-190)
Sample ID : ***07B08241**
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	ND	03/23/07	WSD	14			
Ethylbenzene	ug/m3	10	03/23/07	WSD	8.0			
4-Ethyl Toluene	ug/m3	ND	03/23/07	WSD	10			
n-Heptane	ug/m3	24	03/23/07	WSD	8.0			
Hexachlorobutadiene	ug/m3	ND	03/23/07	WSD	22			
Hexane	ug/m3	49	03/23/07	WSD	8.0			
2-Hexanone	ug/m3	ND	03/23/07	WSD	8.0			
Isopropanol	ug/m3	6600	03/23/07	WSD	4.0			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	03/23/07	WSD	8.0			
Methylene Chloride	ug/m3	92	03/23/07	WSD	6.0			
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	03/23/07	WSD	8.0			
Propene	ug/m3	ND	03/23/07	WSD	4.0			
Styrene	ug/m3	ND	03/23/07	WSD	8.0			
1,1,2,2-Tetrachloroethane	ug/m3	ND	03/23/07	WSD	14			
Tetrachloroethylene	ug/m3	3200	03/23/07	WSD	6.8			
Tetrahydrofuran	ug/m3	ND	03/23/07	WSD	12			
Toluene	ug/m3	220	03/23/07	WSD	8.0			
1,2,4-Trichlorobenzene	ug/m3	ND	03/23/07	WSD	14			
1,1,1-Trichloroethane	ug/m3	ND	03/23/07	WSD	5.4			
1,1,2-Trichloroethane	ug/m3	ND	03/23/07	WSD	10			
Trichloroethylene	ug/m3	98	03/23/07	WSD	5.4			
Trichlorofluoromethane	ug/m3	ND	03/23/07	WSD	12			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	03/23/07	WSD	16			
1,2,4-Trimethylbenzene	ug/m3	ND	03/23/07	WSD	10			
1,3,5-Trimethylbenzene	ug/m3	ND	03/23/07	WSD	10			
Vinyl Acetate	ug/m3	13 J	03/23/07	WSD	8.0			
Vinyl Chloride	ug/m3	56	03/23/07	WSD	6.0			
m/p-Xylene	ug/m3	26	03/23/07	WSD	8.0			
o-Xylene	ug/m3	ND	03/23/07	WSD	8.0			

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PORTLAND, ME 04101

4/2/2007

Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : SG-07-189 (Loc. SG-190)

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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JEFF BRANDOW
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PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Field Sample # : SG-07-190 (LOCATION SG-191)

Sample ID : *07B08243
Sampled : 3/14/2007
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	46	03/27/07	WSD	4.0			
Benzene	ug/m3	ND	03/27/07	WSD	6.0			
Benzyl Chloride	ug/m3	ND	03/27/07	WSD	10			
Bromodichloromethane	ug/m3	120	03/27/07	WSD	14			
Bromomethane	ug/m3	ND	03/27/07	WSD	8.0			
1,3-Butadiene	ug/m3	ND	03/27/07	WSD	4.0			
2-Butanone (MEK)	ug/m3	ND	03/27/07	WSD	6.0			
Carbon Disulfide	ug/m3	ND	03/27/07	WSD	6.0			
Carbon Tetrachloride	ug/m3	200	03/27/07	WSD	6.2			
Chlorobenzene	ug/m3	ND	03/27/07	WSD	10			
Chlorodibromomethane	ug/m3	ND	03/27/07	WSD	18			
Chloroethane	ug/m3	ND	03/27/07	WSD	10			
Chloroform	ug/m3	51000	03/27/07	WSD	10			
Chloromethane	ug/m3	ND	03/27/07	WSD	4.0			
Cyclohexane	ug/m3	ND	03/27/07	WSD	6.0			
1,2-Dibromoethane	ug/m3	ND	03/27/07	WSD	16			
1,2-Dichlorobenzene	ug/m3	ND	03/27/07	WSD	12			
1,3-Dichlorobenzene	ug/m3	ND	03/27/07	WSD	12			
1,4-Dichlorobenzene	ug/m3	ND	03/27/07	WSD	12			
Dichlorodifluoromethane	ug/m3	ND	03/27/07	WSD	10			
1,1-Dichloroethane	ug/m3	ND	03/27/07	WSD	8.0			
1,2-Dichloroethane	ug/m3	19	03/27/07	WSD	8.0			
1,1-Dichloroethylene	ug/m3	ND	03/27/07	WSD	8.0			
cis-1,2-Dichloroethylene	ug/m3	ND	03/27/07	WSD	8.0			
t-1,2-Dichloroethylene	ug/m3	ND	03/27/07	WSD	8.0			
1,2-Dichloropropane	ug/m3	ND	03/27/07	WSD	10			
cis-1,3-Dichloropropene	ug/m3	ND	03/27/07	WSD	10			
trans-1,3-Dichloropropene	ug/m3	ND	03/27/07	WSD	10			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	03/27/07	WSD	14			
Ethanol	ug/m3	ND	03/27/07	WSD	8.0			

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JEFF BRANDOW
MACTEC, INC. - ME
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PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : **SG-07-190** (LOCATION SG-19)
Sample ID : ***07B08243**
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	ND	03/27/07	WSD	14			
Ethylbenzene	ug/m3	ND	03/27/07	WSD	8.0			
4-Ethyl Toluene	ug/m3	ND	03/27/07	WSD	10			
n-Heptane	ug/m3	14	03/27/07	WSD	8.0			
Hexachlorobutadiene	ug/m3	ND	03/27/07	WSD	22			
Hexane	ug/m3	ND	03/27/07	WSD	8.0			
2-Hexanone	ug/m3	ND 5	03/27/07	WSD	8.0			
Isopropanol	ug/m3	4100	03/27/07	WSD	4.0			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	03/27/07	WSD	8.0			
Methylene Chloride	ug/m3	ND	03/27/07	WSD	6.0			
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	03/27/07	WSD	8.0			
Propene	ug/m3	ND	03/27/07	WSD	4.0			
Styrene	ug/m3	ND	03/27/07	WSD	8.0			
1,1,2,2-Tetrachloroethane	ug/m3	ND	03/27/07	WSD	14			
Tetrachloroethylene	ug/m3	140	03/27/07	WSD	6.8			
Tetrahydrofuran	ug/m3	ND	03/27/07	WSD	12			
Toluene	ug/m3	ND	03/27/07	WSD	8.0			
1,2,4-Trichlorobenzene	ug/m3	ND	03/27/07	WSD	14			
1,1,1-Trichloroethane	ug/m3	ND	03/27/07	WSD	5.4			
1,1,2-Trichloroethane	ug/m3	ND	03/27/07	WSD	10			
Trichloroethylene	ug/m3	180	03/27/07	WSD	5.4			
Trichlorofluoromethane	ug/m3	ND	03/27/07	WSD	12			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	03/27/07	WSD	16			
1,2,4-Trimethylbenzene	ug/m3	ND	03/27/07	WSD	10			
1,3,5-Trimethylbenzene	ug/m3	ND	03/27/07	WSD	10			
Vinyl Acetate	ug/m3	ND	03/27/07	WSD	8.0			
Vinyl Chloride	ug/m3	ND	03/27/07	WSD	6.0			
m/p-Xylene	ug/m3	14	03/27/07	WSD	8.0			
o-Xylene	ug/m3	ND	03/27/07	WSD	8.0			

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511 CONGRESS STREET
PORTLAND, ME 04101

4/2/2007

Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : SG-07-190 (Loc SG-191)

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

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JEFF BRANDOW
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PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : SG-07-191RE (LOCATION SG-192)
Sample ID : *07B08251
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	94	03/24/07	WSD	0.40			
Benzene	ug/m3	0.64	03/24/07	WSD	0.60			
Benzyl Chloride	ug/m3	ND	03/24/07	WSD	1.0			
Bromodichloromethane	ug/m3	ND	03/24/07	WSD	1.4			
Bromomethane	ug/m3	ND	03/24/07	WSD	0.80			
1,3-Butadiene	ug/m3	ND	03/24/07	WSD	0.40			
2-Butanone (MEK)	ug/m3	2.8	03/24/07	WSD	0.60			
Carbon Disulfide	ug/m3	ND	03/24/07	WSD	0.60			
Carbon Tetrachloride	ug/m3	ND	03/24/07	WSD	0.62			
Chlorobenzene	ug/m3	ND	03/24/07	WSD	1.0			
Chlorodibromomethane	ug/m3	ND	03/24/07	WSD	1.8			
Chloroethane	ug/m3	ND	03/24/07	WSD	1.0			
Chloroform	ug/m3	1.3	03/24/07	WSD	1.0			
Chloromethane	ug/m3	ND	03/24/07	WSD	0.40			
Cyclohexane	ug/m3	ND	03/24/07	WSD	0.60			
1,2-Dibromoethane	ug/m3	ND	03/24/07	WSD	1.6			
1,2-Dichlorobenzene	ug/m3	ND	03/24/07	WSD	1.2			
1,3-Dichlorobenzene	ug/m3	ND	03/24/07	WSD	1.2			
1,4-Dichlorobenzene	ug/m3	ND	03/24/07	WSD	1.2			
Dichlorodifluoromethane	ug/m3	ND	03/24/07	WSD	1.0			
1,1-Dichloroethane	ug/m3	ND	03/24/07	WSD	0.80			
1,2-Dichloroethane	ug/m3	ND	03/24/07	WSD	0.80			
1,1-Dichloroethylene	ug/m3	ND	03/24/07	WSD	0.80			
cis-1,2-Dichloroethylene	ug/m3	ND	03/24/07	WSD	0.80			
t-1,2-Dichloroethylene	ug/m3	ND	03/24/07	WSD	0.80			
1,2-Dichloropropane	ug/m3	ND	03/24/07	WSD	1.0			
cis-1,3-Dichloropropene	ug/m3	ND	03/24/07	WSD	1.0			
trans-1,3-Dichloropropene	ug/m3	ND	03/24/07	WSD	1.0			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	03/24/07	WSD	1.4			
Ethanol	ug/m3	ND	03/24/07	WSD	0.80			

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con-test ANALYTICAL LABORATORY
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JEFF BRANDOW
MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : **SG-07-191RE** (LOCATION SG-192)
Sample ID : ***07B08251**
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	ND	03/24/07	WSD	1.4			
Ethylbenzene	ug/m3	5.1	03/24/07	WSD	0.80			
4-Ethyl Toluene	ug/m3	7.2	03/24/07	WSD	1.0			
n-Heptane	ug/m3	5.1	03/24/07	WSD	0.80			
Hexachlorobutadiene	ug/m3	ND	03/24/07	WSD	2.2			
Hexane	ug/m3	1.9	03/24/07	WSD	0.80			
2-Hexanone	ug/m3	ND	03/24/07	WSD	0.80			
Isopropanol	ug/m3	15000	03/24/07	WSD	0.40			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	03/24/07	WSD	0.80			
Methylene Chloride	ug/m3	1.1	03/24/07	WSD	0.60			
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	03/24/07	WSD	0.80			
Propene	ug/m3	ND	03/24/07	WSD	0.40			
Styrene	ug/m3	ND	03/24/07	WSD	0.80			
1,1,2,2-Tetrachloroethane	ug/m3	ND	03/24/07	WSD	1.4			
Tetrachloroethylene	ug/m3	1.8	03/24/07	WSD	0.68			
Tetrahydrofuran	ug/m3	ND	03/24/07	WSD	1.2			
Toluene	ug/m3	8.2	03/24/07	WSD	0.80			
1,2,4-Trichlorobenzene	ug/m3	ND	03/24/07	WSD	1.4			
1,1,1-Trichloroethane	ug/m3	ND	03/24/07	WSD	0.54			
1,1,2-Trichloroethane	ug/m3	ND	03/24/07	WSD	1.0			
Trichloroethylene	ug/m3	ND	03/24/07	WSD	0.54			
Trichlorofluoromethane	ug/m3	2.0	03/24/07	WSD	1.2			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	03/24/07	WSD	1.6			
1,2,4-Trimethylbenzene	ug/m3	18	03/24/07	WSD	1.0			
1,3,5-Trimethylbenzene	ug/m3	6.2	03/24/07	WSD	1.0			
Vinyl Acetate	ug/m3	ND	03/24/07	WSD	0.80			
Vinyl Chloride	ug/m3	ND	03/24/07	WSD	0.60			
m/p-Xylene	ug/m3	18	03/24/07	WSD	0.80			
o-Xylene	ug/m3	5.8	03/24/07	WSD	0.80			

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con-test ANALYTICAL LABORATORY
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JEFF BRANDOW
MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

4/2/2007

Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : SG-07-191RE (Loc. SG 192)

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
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JEFF BRANDOW
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511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : **SG-07-192** (LOCATION SG-18B)
Sample ID : ***07B08246** Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	ND	03/22/07	WSD	4.0			
Benzene	ug/m3	ND	03/22/07	WSD	6.0			
Benzyl Chloride	ug/m3	ND	03/22/07	WSD	10			
Bromodichloromethane	ug/m3	ND	03/22/07	WSD	14			
Bromomethane	ug/m3	ND	03/22/07	WSD	8.0			
1,3-Butadiene	ug/m3	ND	03/22/07	WSD	4.0			
2-Butanone (MEK)	ug/m3	ND	03/22/07	WSD	6.0			
Carbon Disulfide	ug/m3	ND	03/22/07	WSD	6.0			
Carbon Tetrachloride	ug/m3	ND	03/22/07	WSD	6.2			
Chlorobenzene	ug/m3	ND	03/22/07	WSD	10			
Chlorodibromomethane	ug/m3	ND	03/22/07	WSD	18			
Chloroethane	ug/m3	ND	03/22/07	WSD	10			
Chloroform	ug/m3	ND	03/22/07	WSD	10			
Chloromethane	ug/m3	ND	03/22/07	WSD	4.0			
Cyclohexane	ug/m3	ND	03/22/07	WSD	6.0			
1,2-Dibromoethane	ug/m3	ND	03/22/07	WSD	16			
1,2-Dichlorobenzene	ug/m3	ND	03/22/07	WSD	12			
1,3-Dichlorobenzene	ug/m3	ND	03/22/07	WSD	12			
1,4-Dichlorobenzene	ug/m3	ND	03/22/07	WSD	12			
Dichlorodifluoromethane	ug/m3	ND	03/22/07	WSD	10			
1,1-Dichloroethane	ug/m3	ND	03/22/07	WSD	8.0			
1,2-Dichloroethane	ug/m3	ND	03/22/07	WSD	8.0			
1,1-Dichloroethylene	ug/m3	ND	03/22/07	WSD	8.0			
cis-1,2-Dichloroethylene	ug/m3	ND	03/22/07	WSD	8.0			
t-1,2-Dichloroethylene	ug/m3	ND	03/22/07	WSD	8.0			
1,2-Dichloropropane	ug/m3	ND	03/22/07	WSD	10			
cis-1,3-Dichloropropene	ug/m3	ND	03/22/07	WSD	10			
trans-1,3-Dichloropropene	ug/m3	ND	03/22/07	WSD	10			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	03/22/07	WSD	14			
Ethanol	ug/m3	ND	03/22/07	WSD	8.0			

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JEFF BRANDOW
MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : **SG-07-192** (LOCATION SG-188)
Sample ID : ***07B08246**
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	ND	03/22/07	WSD	14			
Ethylbenzene	ug/m3	ND	03/22/07	WSD	8.0			
4-Ethyl Toluene	ug/m3	ND	03/22/07	WSD	10			
n-Heptane	ug/m3	ND	03/22/07	WSD	8.0			
Hexachlorobutadiene	ug/m3	ND	03/22/07	WSD	22			
Hexane	ug/m3	ND	03/22/07	WSD	8.0			
2-Hexanone	ug/m3	ND	03/22/07	WSD	8.0			
Isopropanol	ug/m3	180000	03/22/07	WSD	4.0			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	03/22/07	WSD	8.0			
Methylene Chloride	ug/m3	10	03/22/07	WSD	6.0			
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	03/22/07	WSD	8.0			
Propene	ug/m3	ND	03/22/07	WSD	4.0			
Styrene	ug/m3	ND	03/22/07	WSD	8.0			
1,1,2,2-Tetrachloroethane	ug/m3	ND	03/22/07	WSD	14			
Tetrachloroethylene	ug/m3	ND	03/22/07	WSD	6.8			
Tetrahydrofuran	ug/m3	ND	03/22/07	WSD	12			
Toluene	ug/m3	ND	03/22/07	WSD	8.0			
1,2,4-Trichlorobenzene	ug/m3	ND	03/22/07	WSD	14			
1,1,1-Trichloroethane	ug/m3	ND	03/22/07	WSD	5.4			
1,1,2-Trichloroethane	ug/m3	ND	03/22/07	WSD	10			
Trichloroethylene	ug/m3	ND	03/22/07	WSD	5.4			
Trichlorofluoromethane	ug/m3	ND	03/22/07	WSD	12			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	03/22/07	WSD	16			
1,2,4-Trimethylbenzene	ug/m3	ND	03/22/07	WSD	10			
1,3,5-Trimethylbenzene	ug/m3	ND	03/22/07	WSD	10			
Vinyl Acetate	ug/m3	ND	03/22/07	WSD	8.0			
Vinyl Chloride	ug/m3	ND	03/22/07	WSD	6.0			
m/p-Xylene	ug/m3	ND	03/22/07	WSD	8.0			
o-Xylene	ug/m3	ND	03/22/07	WSD	8.0			

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PORTLAND, ME 04101

4/2/2007

Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : SG-07-192 (Loc. SG-188)

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : SG-07-193 (LOCATION SG-193)
Sample ID : *07B08248
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acetone	ug/m3	170	03/24/07	WSD	0.50			
Benzene	ug/m3	ND	03/24/07	WSD	0.75			
Benzyl Chloride	ug/m3	ND	03/24/07	WSD	1.3			
Bromodichloromethane	ug/m3	ND	03/24/07	WSD	1.8			
Bromomethane	ug/m3	ND	03/24/07	WSD	1.0			
1,3-Butadiene	ug/m3	ND	03/24/07	WSD	0.50			
2-Butanone (MEK)	ug/m3	5.8	03/24/07	WSD	0.75			
Carbon Disulfide	ug/m3	ND	03/24/07	WSD	0.75			
Carbon Tetrachloride	ug/m3	ND	03/24/07	WSD	0.78			
Chlorobenzene	ug/m3	ND	03/24/07	WSD	1.3			
Chlorodibromomethane	ug/m3	ND	03/24/07	WSD	2.3			
Chloroethane	ug/m3	ND	03/24/07	WSD	1.3			
Chloroform	ug/m3	ND	03/24/07	WSD	1.3			
Chloromethane	ug/m3	ND	03/24/07	WSD	0.50			
Cyclohexane	ug/m3	3.9	03/24/07	WSD	0.75			
1,2-Dibromoethane	ug/m3	ND	03/24/07	WSD	2.0			
1,2-Dichlorobenzene	ug/m3	ND	03/24/07	WSD	1.5			
1,3-Dichlorobenzene	ug/m3	ND	03/24/07	WSD	1.5			
1,4-Dichlorobenzene	ug/m3	ND	03/24/07	WSD	1.5			
Dichlorodifluoromethane	ug/m3	ND	03/24/07	WSD	1.3			
1,1-Dichloroethane	ug/m3	ND	03/24/07	WSD	1.0			
1,2-Dichloroethane	ug/m3	ND	03/24/07	WSD	1.0			
1,1-Dichloroethylene	ug/m3	ND	03/24/07	WSD	1.0			
cis-1,2-Dichloroethylene	ug/m3	ND	03/24/07	WSD	1.0			
t-1,2-Dichloroethylene	ug/m3	ND	03/24/07	WSD	1.0			
1,2-Dichloropropane	ug/m3	ND	03/24/07	WSD	1.3			
cis-1,3-Dichloropropene	ug/m3	ND	03/24/07	WSD	1.3			
trans-1,3-Dichloropropene	ug/m3	ND	03/24/07	WSD	1.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	03/24/07	WSD	1.8			
Ethanol	ug/m3	ND	03/24/07	WSD	1.0			

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JEFF BRANDOW
MACTEC, INC. - ME
511 CONGRESS STREET
PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616
Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : SG-07-193 (LOCATION SG-193)
Sample ID : *07B08248
Sampled : 3/14/2007
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Ethyl Acetate	ug/m3	ND	03/24/07	WSD	1.8			
Ethylbenzene	ug/m3	6.5	03/24/07	WSD	1.0			
4-Ethyl Toluene	ug/m3	26	03/24/07	WSD	1.3			
n-Heptane	ug/m3	9.7	03/24/07	WSD	1.0			
Hexachlorobutadiene	ug/m3	ND	03/24/07	WSD	2.8			
Hexane	ug/m3	ND	03/24/07	WSD	1.0			
2-Hexanone	ug/m3	ND	03/24/07	WSD	1.0			
Isopropanol	ug/m3	61000	03/24/07	WSD	0.50			
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	03/24/07	WSD	1.0			
Methylene Chloride	ug/m3	ND	03/24/07	WSD	0.75			
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	03/24/07	WSD	1.0			
Propene	ug/m3	ND	03/24/07	WSD	0.50			
Styrene	ug/m3	ND	03/24/07	WSD	1.0			
1,1,2,2-Tetrachloroethane	ug/m3	ND	03/24/07	WSD	1.8			
Tetrachloroethylene	ug/m3	ND	03/24/07	WSD	0.85			
Tetrahydrofuran	ug/m3	ND	03/24/07	WSD	1.5			
Toluene	ug/m3	6.2	03/24/07	WSD	1.0			
1,2,4-Trichlorobenzene	ug/m3	ND	03/24/07	WSD	1.8			
1,1,1-Trichloroethane	ug/m3	ND	03/24/07	WSD	0.68			
1,1,2-Trichloroethane	ug/m3	ND	03/24/07	WSD	1.3			
Trichloroethylene	ug/m3	ND	03/24/07	WSD	0.68			
Trichlorofluoromethane	ug/m3	1.7	03/24/07	WSD	1.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	03/24/07	WSD	2.0			
1,2,4-Trimethylbenzene	ug/m3	40	03/24/07	WSD	1.3			
1,3,5-Trimethylbenzene	ug/m3	19	03/24/07	WSD	1.3			
Vinyl Acetate	ug/m3	ND J	03/24/07	WSD	1.0			
Vinyl Chloride	ug/m3	ND	03/24/07	WSD	0.75			
m/p-Xylene	ug/m3	27	03/24/07	WSD	1.0			
o-Xylene	ug/m3	8.3	03/24/07	WSD	1.0			

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PORTLAND, ME 04101

Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007
Field Sample # : **SG-07-193** (Loc. SG-193)

Analytical Method:
EPA TO-15
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Purchase Order No.: MEC75070091/APO78616

Project Number: 3616036009.01
LIMS-BAT #: LIMT-04559
Job Number: 3616036009.01

Project Location: ROCHESTER, NY
Date Received: 3/15/2007

The following notes were attached to the reported analysis :

Sample ID: * 07B08241
Analysis: Isopropanol

REPORTED RESULT IS ESTIMATED. VALUE REPORTED OVER VERIFIED CALIBRATION RANGE.

Sample ID: * 07B08243
Analysis: Cyclohexane

DUPLICATE RPD IS OUTSIDE OF CONTROL LIMITS. REDUCED PRECISION IS ANTICIPATED FOR REPORTED RESULT. SEE QC SUMMARY REPORT.

Sample ID: * 07B08246
Analysis: Isopropanol

REPORTED RESULT IS ESTIMATED. VALUE REPORTED OVER VERIFIED CALIBRATION RANGE.

Sample ID: * 07B08248
Analysis: Isopropanol

REPORTED RESULT IS ESTIMATED. VALUE REPORTED OVER VERIFIED CALIBRATION RANGE.

Sample ID: * 07B08251
Analysis: Isopropanol

REPORTED RESULT IS ESTIMATED. VALUE REPORTED OVER VERIFIED CALIBRATION RANGE.

** END OF REPORT **

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 4/2/2007 Lims Bat # : LIMT-04559

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
07B08238					
	4-Bromofluorobenzene	Surrogate Recovery	100.25	%	70-130
07B08239					
	4-Bromofluorobenzene	Surrogate Recovery	100.75	%	70-130
07B08240					
	4-Bromofluorobenzene	Surrogate Recovery	97.37	%	70-130
07B08241					
	4-Bromofluorobenzene	Surrogate Recovery	96.87	%	70-130
07B08242					
	4-Bromofluorobenzene	Surrogate Recovery	97.12	%	70-130
07B08243					
	Acetone	Sample Amount	46.08	ug/m3	
		Duplicate Value	50.35	ug/m3	
		Duplicate RPD	8.86	%	
	Benzene	Sample Amount	<6.0	ug/m3	
		Duplicate Value		ug/m3	
	Carbon Tetrachloride	Sample Amount	198.77	ug/m3	
		Duplicate Value	208.84	ug/m3	
		Duplicate RPD	4.93	%	
	Chloroform	Sample Amount	51415.78	ug/m3	
		Duplicate Value	54461.60	ug/m3	
		Duplicate RPD	5.75	%	
	1,2-Dichloroethane	Sample Amount	19.43	ug/m3	
		Duplicate Value	21.05	ug/m3	
		Duplicate RPD	8.00	%	
	1,4-Dichlorobenzene	Sample Amount	<12.	ug/m3	
		Duplicate Value		ug/m3	
	Ethyl Acetate	Sample Amount	<14.	ug/m3	
		Duplicate Value		ug/m3	
	Ethylbenzene	Sample Amount	<8.0	ug/m3	
		Duplicate Value		ug/m3	
	Hexane	Sample Amount	<8.0	ug/m3	
		Duplicate Value		ug/m3	
	Isopropanol	Sample Amount	4148.54	ug/m3	
		Duplicate Value	5101.62	ug/m3	
		Duplicate RPD	20.60	%	
	2-Butanone (MEK)	Sample Amount	<6.0	ug/m3	
		Duplicate Value		ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Sample Amount	<8.0	ug/m3	
		Duplicate Value		ug/m3	
	Styrene	Sample Amount	<8.0	ug/m3	
		Duplicate Value		ug/m3	
	Tetrachloroethylene	Sample Amount	135.62	ug/m3	
		Duplicate Value	138.33	ug/m3	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
07B08243					
	Tetrachloroethylene	Duplicate RPD	1.98	%	
	1,1,1-Trichloroethane	Sample Amount	<5.4	ug/m3	
		Duplicate Value		ug/m3	
	Trichloroethylene	Sample Amount	181.64	ug/m3	
		Duplicate Value	185.94	ug/m3	
		Duplicate RPD	2.33	%	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Sample Amount	<16.	ug/m3	
		Duplicate Value		ug/m3	
	Trichlorofluoromethane	Sample Amount	<12.	ug/m3	
		Duplicate Value		ug/m3	
	o-Xylene	Sample Amount	<8.0	ug/m3	
		Duplicate Value		ug/m3	
	m/p-Xylene	Sample Amount	13.89	ug/m3	
		Duplicate Value	13.89	ug/m3	
		Duplicate RPD	0.00	%	
	1,2-Dichlorobenzene	Sample Amount	<12.	ug/m3	
		Duplicate Value		ug/m3	
	1,3-Dichlorobenzene	Sample Amount	<12.	ug/m3	
		Duplicate Value		ug/m3	
	1,1-Dichloroethane	Sample Amount	<8.0	ug/m3	
		Duplicate Value		ug/m3	
	1,1-Dichloroethylene	Sample Amount	<8.0	ug/m3	
		Duplicate Value		ug/m3	
	Ethanol	Sample Amount	<8.0	ug/m3	
		Duplicate Value		ug/m3	
	4-Ethyl Toluene	Sample Amount	<10.	ug/m3	
		Duplicate Value		ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Sample Amount	<8.0	ug/m3	
		Duplicate Value		ug/m3	
	t-1,2-Dichloroethylene	Sample Amount	<8.0	ug/m3	
		Duplicate Value		ug/m3	
	Vinyl Chloride	Sample Amount	<6.0	ug/m3	
		Duplicate Value		ug/m3	
	Chlorobenzene	Sample Amount	<10.	ug/m3	
		Duplicate Value		ug/m3	
	Chloromethane	Sample Amount	<4.0	ug/m3	
		Duplicate Value		ug/m3	
	Bromomethane	Sample Amount	<8.0	ug/m3	
		Duplicate Value		ug/m3	
	Chloroethane	Sample Amount	<10.	ug/m3	
		Duplicate Value		ug/m3	
	cis-1,3-Dichloropropene	Sample Amount	<10.	ug/m3	
		Duplicate Value		ug/m3	

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39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 4/2/2007 Lims Bat # : LIMT-04559

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
07B08243					
	trans-1,3-Dichloropropene	Sample Amount	<10.	ug/m3	
		Duplicate Value		ug/m3	
	Chlorodibromomethane	Sample Amount	<18.	ug/m3	
		Duplicate Value		ug/m3	
	1,1,2-Trichloroethane	Sample Amount	<10.	ug/m3	
		Duplicate Value		ug/m3	
	1,1,2,2-Tetrachloroethane	Sample Amount	<14.	ug/m3	
		Duplicate Value		ug/m3	
	Hexachlorobutadiene	Sample Amount	<22.	ug/m3	
		Duplicate Value		ug/m3	
	1,2,4-Trichlorobenzene	Sample Amount	<14.	ug/m3	
		Duplicate Value		ug/m3	
	1,2,4-Trimethylbenzene	Sample Amount	<10.	ug/m3	
		Duplicate Value		ug/m3	
	1,3,5-Trimethylbenzene	Sample Amount	<10.	ug/m3	
		Duplicate Value		ug/m3	
	Cyclohexane	Sample Amount	<6.0	ug/m3	
		Duplicate Value	33.04	ug/m3	
		Duplicate RPD	>130	%	
	cis-1,2-Dichloroethylene	Sample Amount	<8.0	ug/m3	
		Duplicate Value		ug/m3	
	1,2-Dichloropropane	Sample Amount	<10.	ug/m3	
		Duplicate Value		ug/m3	
	Dichlorodifluoromethane	Sample Amount	<10.	ug/m3	
		Duplicate Value		ug/m3	
	Benzyl Chloride	Sample Amount	<10.	ug/m3	
		Duplicate Value		ug/m3	
	Carbon Disulfide	Sample Amount	<6.0	ug/m3	
		Duplicate Value		ug/m3	
	2-Hexanone	Sample Amount	<8.0	ug/m3	
		Duplicate Value		ug/m3	
	Bromodichloromethane	Sample Amount	123.29	ug/m3	
		Duplicate Value	127.31	ug/m3	
		Duplicate RPD	3.20	%	
	4-Bromofluorobenzene	Surrogate Recovery	99.75	%	70-130
	1,2-Dibromoethane	Sample Amount	<16.	ug/m3	
		Duplicate Value		ug/m3	
	n-Heptane	Sample Amount	13.93	ug/m3	
		Duplicate Value	13.11	ug/m3	
		Duplicate RPD	6.06	%	
	1,2-Dichlorotetrafluoroethane (114)	Sample Amount	<14.	ug/m3	
		Duplicate Value		ug/m3	
	Tetrahydrofuran	Sample Amount	<12.	ug/m3	

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39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 4/2/2007 Lims Bat # : LIMT-04559

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
07B08243					
	Tetrahydrofuran	Duplicate Value		ug/m3	
	Propene	Sample Amount	<4.0	ug/m3	
		Duplicate Value		ug/m3	
	1,3-Butadiene	Sample Amount	<4.0	ug/m3	
		Duplicate Value		ug/m3	
07B08244					
	4-Bromofluorobenzene	Surrogate Recovery	96.50	%	70-130
07B08245					
	4-Bromofluorobenzene	Surrogate Recovery	100.87	%	70-130
07B08246					
	4-Bromofluorobenzene	Surrogate Recovery	101.37	%	70-130
07B08247					
	4-Bromofluorobenzene	Surrogate Recovery	101.12	%	70-130
07B08248					
	4-Bromofluorobenzene	Surrogate Recovery	101.00	%	70-130
07B08249					
	4-Bromofluorobenzene	Surrogate Recovery	100.00	%	70-130
07B08250					
	4-Bromofluorobenzene	Surrogate Recovery	102.87	%	70-130
07B08251					
	4-Bromofluorobenzene	Surrogate Recovery	98.87	%	70-130
BLANK-99570					
	Acetone	Blank	0.42	ug/m3	
	Benzene	Blank	<0.30	ug/m3	
	Carbon Tetrachloride	Blank	<0.31	ug/m3	
	Chloroform	Blank	<0.50	ug/m3	
	1,2-Dichloroethane	Blank	<0.40	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.60	ug/m3	
	Ethyl Acetate	Blank	<0.70	ug/m3	
	Ethylbenzene	Blank	<0.40	ug/m3	
	Hexane	Blank	<0.40	ug/m3	
	Isopropanol	Blank	<0.20	ug/m3	
	2-Butanone (MEK)	Blank	<0.30	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.40	ug/m3	
	Styrene	Blank	<0.40	ug/m3	
	Tetrachloroethylene	Blank	<0.34	ug/m3	
	Toluene	Blank	<0.40	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.27	ug/m3	
	Trichloroethylene	Blank	<0.27	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.80	ug/m3	
	Trichlorofluoromethane	Blank	<0.60	ug/m3	
	o-Xylene	Blank	<0.40	ug/m3	
	m/p-Xylene	Blank	<0.40	ug/m3	

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ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 4/2/2007 Lims Bat # : LIMT-04559

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-99570					
	1,2-Dichlorobenzene	Blank	<0.60	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.60	ug/m3	
	1,1-Dichloroethane	Blank	<0.40	ug/m3	
	1,1-Dichloroethylene	Blank	<0.40	ug/m3	
	Ethanol	Blank	<0.40	ug/m3	
	4-Ethyl Toluene	Blank	<0.50	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.40	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.40	ug/m3	
	Vinyl Chloride	Blank	<0.30	ug/m3	
	Methylene Chloride	Blank	<0.30	ug/m3	
	Chlorobenzene	Blank	<0.50	ug/m3	
	Chloromethane	Blank	<0.20	ug/m3	
	Bromomethane	Blank	<0.40	ug/m3	
	Chloroethane	Blank	<0.50	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.50	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.50	ug/m3	
	Chlorodibromomethane	Blank	<0.90	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.50	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.70	ug/m3	
	Hexachlorobutadiene	Blank	<1.1	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.70	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.50	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.50	ug/m3	
	Cyclohexane	Blank	<0.30	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.40	ug/m3	
	1,2-Dichloropropane	Blank	<0.50	ug/m3	
	Dichlorodifluoromethane	Blank	<0.50	ug/m3	
	Benzyl Chloride	Blank	<0.50	ug/m3	
	Carbon Disulfide	Blank	<0.30	ug/m3	
	Vinyl Acetate	Blank	<0.40	ug/m3	
	2-Hexanone	Blank	<0.40	ug/m3	
	Bromodichloromethane	Blank	<0.70	ug/m3	
	1,2-Dibromoethane	Blank	<0.80	ug/m3	
	n-Heptane	Blank	<0.40	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.70	ug/m3	
	Tetrahydrofuran	Blank	<0.60	ug/m3	
	Propene	Blank	<0.20	ug/m3	
	1,3-Butadiene	Blank	<0.20 ✓	ug/m3	
BLANK-99571					
	Acetone	Blank	<0.20	ug/m3	
	Benzene	Blank	<0.30	ug/m3	
	Carbon Tetrachloride	Blank	<0.31	ug/m3	
	Chloroform	Blank	<0.50	ug/m3	

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 4/2/2007 Lims Bat # : LIMT-04559

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-99571					
	1,2-Dichloroethane	Blank	<0.40	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.60	ug/m3	
	Ethyl Acetate	Blank	<0.70	ug/m3	
	Ethylbenzene	Blank	<0.40	ug/m3	
	Hexane	Blank	<0.40	ug/m3	
	Isopropanol	Blank	<0.20	ug/m3	
	2-Butanone (MEK)	Blank	<0.30	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.40	ug/m3	
	Styrene	Blank	<0.40	ug/m3	
	Tetrachloroethylene	Blank	<0.34	ug/m3	
	Toluene	Blank	<0.40	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.27	ug/m3	
	Trichloroethylene	Blank	<0.27	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.80	ug/m3	
	Trichlorofluoromethane	Blank	<0.60	ug/m3	
	o-Xylene	Blank	<0.40	ug/m3	
	m/p-Xylene	Blank	<0.40	ug/m3	
	1,2-Dichlorobenzene	Blank	<0.60	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.60	ug/m3	
	1,1-Dichloroethane	Blank	<0.40	ug/m3	
	1,1-Dichloroethylene	Blank	<0.40	ug/m3	
	Ethanol	Blank	<0.40	ug/m3	
	4-Ethyl Toluene	Blank	<0.50	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.40	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.40	ug/m3	
	Vinyl Chloride	Blank	<0.30	ug/m3	
	Methylene Chloride	Blank	<0.30	ug/m3	
	Chlorobenzene	Blank	<0.50	ug/m3	
	Chloromethane	Blank	<0.20	ug/m3	
	Bromomethane	Blank	<0.40	ug/m3	
	Chloroethane	Blank	<0.50	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.50	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.50	ug/m3	
	Chlorodibromomethane	Blank	<0.90	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.50	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.70	ug/m3	
	Hexachlorobutadiene	Blank	<1.1	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.70	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.50	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.50	ug/m3	
	Cyclohexane	Blank	<0.30	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.40	ug/m3	
	1,2-Dichloropropane	Blank	<0.50	ug/m3	

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-99571					
	Dichlorodifluoromethane	Blank	<0.50	ug/m3	
	Benzyl Chloride	Blank	<0.50	ug/m3	
	Carbon Disulfide	Blank	<0.30	ug/m3	
	Vinyl Acetate	Blank	<0.40	ug/m3	
	2-Hexanone	Blank	<0.40	ug/m3	
	Bromodichloromethane	Blank	<0.70	ug/m3	
	1,2-Dibromoethane	Blank	<0.80	ug/m3	
	n-Heptane	Blank	<0.40	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.70	ug/m3	
	Tetrahydrofuran	Blank	<0.60	ug/m3	
	Propene	Blank	<0.20	ug/m3	
	1,3-Butadiene	Blank	<0.20	ug/m3	
BLANK-99904					
	Acetone	Blank	<0.20	ug/m3	
	Benzene	Blank	<0.30	ug/m3	
	Carbon Tetrachloride	Blank	<0.31	ug/m3	
	Chloroform	Blank	<0.50	ug/m3	
	1,2-Dichloroethane	Blank	<0.40	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.60	ug/m3	
	Ethyl Acetate	Blank	<0.70	ug/m3	
	Ethylbenzene	Blank	<0.40	ug/m3	
	Hexane	Blank	<0.40	ug/m3	
	Isopropanol	Blank	<0.20	ug/m3	
	2-Butanone (MEK)	Blank	<0.30	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.40	ug/m3	
	Styrene	Blank	<0.40	ug/m3	
	Tetrachloroethylene	Blank	<0.34	ug/m3	
	Toluene	Blank	<0.40	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.27	ug/m3	
	Trichloroethylene	Blank	<0.27	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.80	ug/m3	
	Trichlorofluoromethane	Blank	<0.60	ug/m3	
	o-Xylene	Blank	<0.40	ug/m3	
	m/p-Xylene	Blank	<0.40	ug/m3	
	1,2-Dichlorobenzene	Blank	<0.60	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.60	ug/m3	
	1,1-Dichloroethane	Blank	<0.40	ug/m3	
	1,1-Dichloroethylene	Blank	<0.40	ug/m3	
	Ethanol	Blank	<0.40	ug/m3	
	4-Ethyl Toluene	Blank	<0.50	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.40	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.40	ug/m3	
	Vinyl Chloride	Blank	<0.30	ug/m3	

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39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
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Method Blanks

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-99904					
	Methylene Chloride	Blank	<0.30	ug/m3	
	Chlorobenzene	Blank	<0.50	ug/m3	
	Chloromethane	Blank	<0.20	ug/m3	
	Bromomethane	Blank	<0.40	ug/m3	
	Chloroethane	Blank	<0.50	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.50	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.50	ug/m3	
	Chlorodibromomethane	Blank	<0.90	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.50	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.70	ug/m3	
	Hexachlorobutadiene	Blank	<1.1	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.70	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.50	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.50	ug/m3	
	Cyclohexane	Blank	<0.30	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.40	ug/m3	
	1,2-Dichloropropane	Blank	<0.50	ug/m3	
	Dichlorodifluoromethane	Blank	<0.50	ug/m3	
	Benzyl Chloride	Blank	<0.50	ug/m3	
	Carbon Disulfide	Blank	<0.30	ug/m3	
	Vinyl Acetate	Blank	<0.40	ug/m3	
	2-Hexanone	Blank	<0.40	ug/m3	
	Bromodichloromethane	Blank	<0.70	ug/m3	
	1,2-Dibromoethane	Blank	<0.80	ug/m3	
	n-Heptane	Blank	<0.40	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.70	ug/m3	
	Tetrahydrofuran	Blank	<0.60	ug/m3	
	Propene	Blank	<0.20	ug/m3	
	1,3-Butadiene	Blank	<0.20	ug/m3	
BLANK-99905					
	Acetone	Blank	<0.20	ug/m3	
	Benzene	Blank	<0.30	ug/m3	
	Carbon Tetrachloride	Blank	<0.31	ug/m3	
	Chloroform	Blank	<0.50	ug/m3	
	1,2-Dichloroethane	Blank	<0.40	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.60	ug/m3	
	Ethyl Acetate	Blank	<0.70	ug/m3	
	Ethylbenzene	Blank	<0.40	ug/m3	
	Hexane	Blank	<0.40	ug/m3	
	Isopropanol	Blank	<0.20	ug/m3	
	2-Butanone (MEK)	Blank	<0.30	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.40	ug/m3	
	Styrene	Blank	<0.40	ug/m3	

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 4/2/2007 Lims Bat # : LIMT-04559

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-99905					
	Tetrachloroethylene	Blank	<0.34	ug/m3	
	Toluene	Blank	<0.40	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.27	ug/m3	
	Trichloroethylene	Blank	<0.27	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.80	ug/m3	
	Trichlorofluoromethane	Blank	<0.60	ug/m3	
	o-Xylene	Blank	<0.40	ug/m3	
	m/p-Xylene	Blank	<0.40	ug/m3	
	1,2-Dichlorobenzene	Blank	<0.60	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.60	ug/m3	
	1,1-Dichloroethane	Blank	<0.40	ug/m3	
	1,1-Dichloroethylene	Blank	<0.40	ug/m3	
	Ethanol	Blank	<0.40	ug/m3	
	4-Ethyl Toluene	Blank	<0.50	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.40	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.40	ug/m3	
	Vinyl Chloride	Blank	<0.30	ug/m3	
	Methylene Chloride	Blank	1.66	ug/m3	
	Chlorobenzene	Blank	<0.50	ug/m3	
	Chloromethane	Blank	<0.20	ug/m3	
	Bromomethane	Blank	<0.40	ug/m3	
	Chloroethane	Blank	<0.50	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.50	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.50	ug/m3	
	Chlorodibromomethane	Blank	<0.90	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.50	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.70	ug/m3	
	Hexachlorobutadiene	Blank	<1.1	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.70	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.50	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.50	ug/m3	
	Cyclohexane	Blank	<0.30	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.40	ug/m3	
	1,2-Dichloropropane	Blank	<0.50	ug/m3	
	Dichlorodifluoromethane	Blank	<0.50	ug/m3	
	Benzyl Chloride	Blank	<0.50	ug/m3	
	Carbon Disulfide	Blank	<0.30	ug/m3	
	Vinyl Acetate	Blank	<0.40	ug/m3	
	2-Hexanone	Blank	<0.40	ug/m3	
	Bromodichloromethane	Blank	<0.70	ug/m3	
	1,2-Dibromoethane	Blank	<0.80	ug/m3	
	n-Heptane	Blank	<0.40	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.70	ug/m3	

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 4/2/2007 Lims Bat # : LIMT-04559

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-99905					
	Tetrahydrofuran	Blank	<0.60	ug/m3	
	Propene	Blank	<0.20	ug/m3	
	1,3-Butadiene	Blank	<0.20	ug/m3	
LFBLANK-60747					
	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	12.99	ug/m3	
		Lab Fort Blk. % Rec.	109.40	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	15.21	ug/m3	
		Lab Fort Blk. % Rec.	95.39	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	33.84	ug/m3	
		Lab Fort Blk. % Rec.	107.60	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	24.72	ug/m3	
		Lab Fort Blk. % Rec.	101.60	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	21.33	ug/m3	
		Lab Fort Blk. % Rec.	105.40	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	35.35	ug/m3	
		Lab Fort Blk. % Rec.	117.60	%	70-130
	Ethyl Acetate	Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	19.27	ug/m3	
		Lab Fort Blk. % Rec.	107.00	%	50-150
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	22.54	ug/m3	
		Lab Fort Blk. % Rec.	104.00	%	70-130
	Hexane	Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	17.44	ug/m3	
		Lab Fort Blk. % Rec.	99.00	%	70-130
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	12.77	ug/m3	
		Lab Fort Blk. % Rec.	104.00	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	14.62	ug/m3	
		Lab Fort Blk. % Rec.	99.20	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	19.95	ug/m3	
		Lab Fort Blk. % Rec.	97.39	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	23.05	ug/m3	
		Lab Fort Blk. % Rec.	108.40	%	70-130

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

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QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-60747					
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	35.32	ug/m3	
		Lab Fort Blk. % Rec.	104.20	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	18.88	ug/m3	
		Lab Fort Blk. % Rec.	100.40	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	28.64	ug/m3	
		Lab Fort Blk. % Rec.	105.00	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	26.65	ug/m3	
		Lab Fort Blk. % Rec.	99.19	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	38.70	ug/m3	
		Lab Fort Blk. % Rec.	101.00	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	30.67	ug/m3	
		Lab Fort Blk. % Rec.	109.20	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	24.54	ug/m3	
		Lab Fort Blk. % Rec.	113.00	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	47.12	ug/m3	
		Lab Fort Blk. % Rec.	108.50	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	36.13	ug/m3	
		Lab Fort Blk. % Rec.	120.20	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	35.05	ug/m3	
		Lab Fort Blk. % Rec.	116.60	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	20.12	ug/m3	
		Lab Fort Blk. % Rec.	99.40	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	19.75	ug/m3	
		Lab Fort Blk. % Rec.	99.59	%	70-130
	Ethanol	Lab Fort Blank Amt.	9.42	ug/m3	
		Lab Fort Blk. Found	15.07	ug/m3	
		Lab Fort Blk. % Rec.	160.00	%	50-150
	4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	27.87	ug/m3	
		Lab Fort Blk. % Rec.	113.40	%	50-150
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3	

con-test ANALYTICAL LABORATORY

39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

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BATCH QC: Lab fortified Blanks and Duplicates
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Method Blanks

Report Date: 4/2/2007 Lims Bat # : LIMT-04559

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-60747					
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blk. Found	18.20	ug/m3	
		Lab Fort Blk. % Rec.	101.00	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	19.98	ug/m3	
		Lab Fort Blk. % Rec.	100.80	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	12.39	ug/m3	
		Lab Fort Blk. % Rec.	96.99	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	18.36	ug/m3	
		Lab Fort Blk. % Rec.	105.80	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	23.62	ug/m3	
		Lab Fort Blk. % Rec.	102.60	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	9.78	ug/m3	
		Lab Fort Blk. % Rec.	94.80	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	19.05	ug/m3	
		Lab Fort Blk. % Rec.	98.19	%	70-130
	Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	12.74	ug/m3	
		Lab Fort Blk. % Rec.	96.59	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	22.65	ug/m3	
		Lab Fort Blk. % Rec.	99.79	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	23.65	ug/m3	
		Lab Fort Blk. % Rec.	104.20	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	46.76	ug/m3	
		Lab Fort Blk. % Rec.	109.80	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	27.33	ug/m3	
		Lab Fort Blk. % Rec.	100.20	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	38.45	ug/m3	
		Lab Fort Blk. % Rec.	112.00	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	75.52	ug/m3	
		Lab Fort Blk. % Rec.	141.60	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	52.54	ug/m3	

con-test ANALYTICAL LABORATORY

39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

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LFBLANK-60747					
	1,2,4-Trichlorobenzene	Lab Fort Blk. % Rec.	141.60	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	28.51	ug/m3	
		Lab Fort Blk. % Rec.	116.00	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	28.71	ug/m3	
		Lab Fort Blk. % Rec.	116.80	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	16.96	ug/m3	
		Lab Fort Blk. % Rec.	98.59	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	19.98	ug/m3	
		Lab Fort Blk. % Rec.	100.80	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	21.90	ug/m3	
		Lab Fort Blk. % Rec.	94.79	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	26.75	ug/m3	
		Lab Fort Blk. % Rec.	108.20	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	31.21	ug/m3	
		Lab Fort Blk. % Rec.	120.60	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	14.85	ug/m3	
		Lab Fort Blk. % Rec.	95.40	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	13.87	ug/m3	
		Lab Fort Blk. % Rec.	78.80	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	20.23	ug/m3	
		Lab Fort Blk. % Rec.	98.79	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	34.70	ug/m3	
		Lab Fort Blk. % Rec.	103.60	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	39.88	ug/m3	
		Lab Fort Blk. % Rec.	103.80	%	70-130
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	18.64	ug/m3	
		Lab Fort Blk. % Rec.	91.00	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	35.51	ug/m3	
		Lab Fort Blk. % Rec.	101.60	%	70-130

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

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QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-60747					
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	14.33	ug/m3	
		Lab Fort Blk. % Rec.	97.20	%	50-150
	Propene	Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	7.74	ug/m3	
		Lab Fort Blk. % Rec.	90.00	%	50-150
	1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	10.48	ug/m3	
		Lab Fort Blk. % Rec.	94.80	%	70-130
LFBLANK-60748					
	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	10.21	ug/m3	
		Lab Fort Blk. % Rec.	86.00	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	13.59	ug/m3	
		Lab Fort Blk. % Rec.	85.20	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	28.18	ug/m3	
		Lab Fort Blk. % Rec.	89.59	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	22.04	ug/m3	
		Lab Fort Blk. % Rec.	90.60	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	18.38	ug/m3	
		Lab Fort Blk. % Rec.	90.80	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	28.01	ug/m3	
		Lab Fort Blk. % Rec.	93.20	%	70-130
	Ethyl Acetate	Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	17.00	ug/m3	
		Lab Fort Blk. % Rec.	94.40	%	50-150
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	18.72	ug/m3	
		Lab Fort Blk. % Rec.	86.40	%	70-130
	Hexane	Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	15.47	ug/m3	
		Lab Fort Blk. % Rec.	87.79	%	70-130
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	11.79	ug/m3	
		Lab Fort Blk. % Rec.	95.99	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	12.68	ug/m3	
		Lab Fort Blk. % Rec.	86.00	%	70-130

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

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QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-60748					
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	16.71	ug/m3	
		Lab Fort Blk. % Rec.	81.60	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	18.75	ug/m3	
		Lab Fort Blk. % Rec.	88.20	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	30.51	ug/m3	
		Lab Fort Blk. % Rec.	89.99	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	16.17	ug/m3	
		Lab Fort Blk. % Rec.	86.00	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	24.49	ug/m3	
		Lab Fort Blk. % Rec.	89.79	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	23.05	ug/m3	
		Lab Fort Blk. % Rec.	85.80	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	35.40	ug/m3	
		Lab Fort Blk. % Rec.	92.40	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	26.40	ug/m3	
		Lab Fort Blk. % Rec.	93.99	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	19.45	ug/m3	
		Lab Fort Blk. % Rec.	89.60	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	38.61	ug/m3	
		Lab Fort Blk. % Rec.	88.90	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	28.61	ug/m3	
		Lab Fort Blk. % Rec.	95.20	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.83	ug/m3	
		Lab Fort Blk. % Rec.	92.60	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	17.97	ug/m3	
		Lab Fort Blk. % Rec.	88.79	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	17.53	ug/m3	
		Lab Fort Blk. % Rec.	88.40	%	70-130
	Ethanol	Lab Fort Blank Amt.	9.42	ug/m3	

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

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Method Blanks

Report Date: 4/2/2007 Lims Bat # : LIMT-04559

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-60748					
	Ethanol	Lab Fort Blk. Found	14.05	ug/m3	
		Lab Fort Blk. % Rec.	149.19	%	50-150
	4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	22.81	ug/m3	
		Lab Fort Blk. % Rec.	92.80	%	50-150
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3	
		Lab Fort Blk. Found	16.40	ug/m3	
		Lab Fort Blk. % Rec.	91.00	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	18.00	ug/m3	
		Lab Fort Blk. % Rec.	90.80	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	11.34	ug/m3	
		Lab Fort Blk. % Rec.	88.79	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	16.38	ug/m3	
		Lab Fort Blk. % Rec.	94.40	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	19.94	ug/m3	
		Lab Fort Blk. % Rec.	86.59	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	8.21	ug/m3	
		Lab Fort Blk. % Rec.	79.60	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	17.23	ug/m3	
		Lab Fort Blk. % Rec.	88.79	%	70-130
	Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	12.02	ug/m3	
		Lab Fort Blk. % Rec.	91.19	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	19.56	ug/m3	
		Lab Fort Blk. % Rec.	86.20	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	20.24	ug/m3	
		Lab Fort Blk. % Rec.	89.20	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	39.27	ug/m3	
		Lab Fort Blk. % Rec.	92.20	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	23.46	ug/m3	
		Lab Fort Blk. % Rec.	85.99	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	30.48	ug/m3	

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 4/2/2007 Lims Bat # : LIMT-04559

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-60748					
	1,1,2,2-Tetrachloroethane	Lab Fort Blk. % Rec.	88.79	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	62.29	ug/m3	
		Lab Fort Blk. % Rec.	116.80	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	42.30	ug/m3	
		Lab Fort Blk. % Rec.	114.00	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	22.81	ug/m3	
		Lab Fort Blk. % Rec.	92.80	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	23.25	ug/m3	
		Lab Fort Blk. % Rec.	94.59	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	13.94	ug/m3	
		Lab Fort Blk. % Rec.	80.99	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	18.04	ug/m3	
		Lab Fort Blk. % Rec.	90.99	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	19.22	ug/m3	
		Lab Fort Blk. % Rec.	83.19	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	22.20	ug/m3	
		Lab Fort Blk. % Rec.	89.79	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	24.22	ug/m3	
		Lab Fort Blk. % Rec.	93.60	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	13.32	ug/m3	
		Lab Fort Blk. % Rec.	85.59	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	12.28	ug/m3	
		Lab Fort Blk. % Rec.	69.80	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	16.46	ug/m3	
		Lab Fort Blk. % Rec.	80.39	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	29.41	ug/m3	
		Lab Fort Blk. % Rec.	87.79	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	33.50	ug/m3	
		Lab Fort Blk. % Rec.	87.20	%	70-130

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

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QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-60748					
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	16.18	ug/m3	
		Lab Fort Blk. % Rec.	78.99	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	30.41	ug/m3	
		Lab Fort Blk. % Rec.	86.99	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	13.00	ug/m3	
		Lab Fort Blk. % Rec.	88.20	%	50-150
	Propene	Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	6.64	ug/m3	
		Lab Fort Blk. % Rec.	77.20	%	50-150
	1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	9.04	ug/m3	
		Lab Fort Blk. % Rec.	81.80	%	70-130
LFBLANK-61071					
	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	9.97	ug/m3	
		Lab Fort Blk. % Rec.	84.00	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	13.46	ug/m3	
		Lab Fort Blk. % Rec.	84.40	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	27.86	ug/m3	
		Lab Fort Blk. % Rec.	88.60	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	21.36	ug/m3	
		Lab Fort Blk. % Rec.	87.80	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	17.61	ug/m3	
		Lab Fort Blk. % Rec.	87.00	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.35	ug/m3	
		Lab Fort Blk. % Rec.	91.00	%	70-130
	Ethyl Acetate	Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	15.67	ug/m3	
		Lab Fort Blk. % Rec.	87.00	%	50-150
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	18.25	ug/m3	
		Lab Fort Blk. % Rec.	84.20	%	70-130
	Hexane	Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	14.44	ug/m3	
		Lab Fort Blk. % Rec.	81.99	%	70-130

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
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Method Blanks

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-61071					
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	10.91	ug/m3	
		Lab Fort Blk. % Rec.	88.80	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	11.70	ug/m3	
		Lab Fort Blk. % Rec.	79.40	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	16.05	ug/m3	
		Lab Fort Blk. % Rec.	78.40	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	17.86	ug/m3	
		Lab Fort Blk. % Rec.	83.99	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	28.75	ug/m3	
		Lab Fort Blk. % Rec.	84.79	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	15.61	ug/m3	
		Lab Fort Blk. % Rec.	83.00	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	24.00	ug/m3	
		Lab Fort Blk. % Rec.	88.00	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	22.57	ug/m3	
		Lab Fort Blk. % Rec.	84.00	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	33.41	ug/m3	
		Lab Fort Blk. % Rec.	87.20	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	25.45	ug/m3	
		Lab Fort Blk. % Rec.	90.59	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	19.41	ug/m3	
		Lab Fort Blk. % Rec.	89.40	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	37.96	ug/m3	
		Lab Fort Blk. % Rec.	87.40	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	28.13	ug/m3	
		Lab Fort Blk. % Rec.	93.60	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.23	ug/m3	
		Lab Fort Blk. % Rec.	90.60	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 4/2/2007 Lims Bat # : LIMT-04559

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-61071					
	1,1-Dichloroethane	Lab Fort Blk. Found	17.20	ug/m3	
		Lab Fort Blk. % Rec.	85.00	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	16.50	ug/m3	
		Lab Fort Blk. % Rec.	83.20	%	70-130
	Ethanol	Lab Fort Blank Amt.	9.42	ug/m3	
		Lab Fort Blk. Found	11.73	ug/m3	
		Lab Fort Blk. % Rec.	124.60	%	50-150
	4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	21.97	ug/m3	
		Lab Fort Blk. % Rec.	89.40	%	50-150
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3	
		Lab Fort Blk. Found	15.25	ug/m3	
		Lab Fort Blk. % Rec.	84.59	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	16.73	ug/m3	
		Lab Fort Blk. % Rec.	84.40	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	10.96	ug/m3	
		Lab Fort Blk. % Rec.	85.80	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	16.56	ug/m3	
		Lab Fort Blk. % Rec.	95.40	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	19.34	ug/m3	
		Lab Fort Blk. % Rec.	84.00	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	8.11	ug/m3	
		Lab Fort Blk. % Rec.	78.60	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	16.22	ug/m3	
		Lab Fort Blk. % Rec.	83.59	%	70-130
	Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	10.84	ug/m3	
		Lab Fort Blk. % Rec.	82.20	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	19.24	ug/m3	
		Lab Fort Blk. % Rec.	84.79	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	19.88	ug/m3	
		Lab Fort Blk. % Rec.	87.59	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	38.25	ug/m3	

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 4/2/2007 Lims Bat # : LIMT-04559

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-61071					
	Chlorodibromomethane	Lab Fort Blk. % Rec.	89.79	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	22.69	ug/m3	
		Lab Fort Blk. % Rec.	83.19	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	30.28	ug/m3	
		Lab Fort Blk. % Rec.	88.20	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	58.24	ug/m3	
		Lab Fort Blk. % Rec.	109.20	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	39.92	ug/m3	
		Lab Fort Blk. % Rec.	107.60	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	22.07	ug/m3	
		Lab Fort Blk. % Rec.	89.80	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	22.36	ug/m3	
		Lab Fort Blk. % Rec.	91.00	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	13.87	ug/m3	
		Lab Fort Blk. % Rec.	80.59	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	16.81	ug/m3	
		Lab Fort Blk. % Rec.	84.79	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	18.80	ug/m3	
		Lab Fort Blk. % Rec.	81.40	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	21.01	ug/m3	
		Lab Fort Blk. % Rec.	84.99	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	23.19	ug/m3	
		Lab Fort Blk. % Rec.	89.60	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	12.83	ug/m3	
		Lab Fort Blk. % Rec.	82.40	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	11.76	ug/m3	
		Lab Fort Blk. % Rec.	66.80	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	15.73	ug/m3	
		Lab Fort Blk. % Rec.	76.80	%	50-150

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

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QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-61071					
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	29.21	ug/m3	
		Lab Fort Blk. % Rec.	87.20	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	32.50	ug/m3	
		Lab Fort Blk. % Rec.	84.60	%	70-130
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	16.02	ug/m3	
		Lab Fort Blk. % Rec.	78.19	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	29.71	ug/m3	
		Lab Fort Blk. % Rec.	84.99	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	12.00	ug/m3	
		Lab Fort Blk. % Rec.	81.40	%	50-150
	Propene	Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	6.26	ug/m3	
		Lab Fort Blk. % Rec.	72.80	%	50-150
	1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	8.47	ug/m3	
		Lab Fort Blk. % Rec.	76.60	%	70-130
LFBLANK-61094					
	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	12.58	ug/m3	
		Lab Fort Blk. % Rec.	106.00	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	12.95	ug/m3	
		Lab Fort Blk. % Rec.	81.19	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	28.18	ug/m3	
		Lab Fort Blk. % Rec.	89.59	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	21.99	ug/m3	
		Lab Fort Blk. % Rec.	90.40	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	17.97	ug/m3	
		Lab Fort Blk. % Rec.	88.79	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	26.93	ug/m3	
		Lab Fort Blk. % Rec.	89.60	%	70-130
	Ethyl Acetate	Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	16.17	ug/m3	
		Lab Fort Blk. % Rec.	89.80	%	50-150

con-test ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

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Method Blanks

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-61094	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	17.86	ug/m3	
		Lab Fort Blk. % Rec.	82.39	%	70-130
	Hexane	Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	15.26	ug/m3	
		Lab Fort Blk. % Rec.	86.60	%	70-130
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	11.64	ug/m3	
		Lab Fort Blk. % Rec.	94.79	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	12.62	ug/m3	
		Lab Fort Blk. % Rec.	85.59	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	15.89	ug/m3	
		Lab Fort Blk. % Rec.	77.60	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	16.92	ug/m3	
		Lab Fort Blk. % Rec.	79.59	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	28.48	ug/m3	
		Lab Fort Blk. % Rec.	83.99	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	15.08	ug/m3	
		Lab Fort Blk. % Rec.	80.20	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	23.95	ug/m3	
		Lab Fort Blk. % Rec.	87.80	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	23.00	ug/m3	
		Lab Fort Blk. % Rec.	85.59	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	35.86	ug/m3	
		Lab Fort Blk. % Rec.	93.60	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	27.36	ug/m3	
		Lab Fort Blk. % Rec.	97.39	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	19.02	ug/m3	
		Lab Fort Blk. % Rec.	87.60	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	37.13	ug/m3	
		Lab Fort Blk. % Rec.	85.49	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 4/2/2007 Lims Bat # : LIMT-04559

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-61094					
	1,2-Dichlorobenzene	Lab Fort Blk. Found	27.83	ug/m3	
		Lab Fort Blk. % Rec.	92.60	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	26.69	ug/m3	
		Lab Fort Blk. % Rec.	88.80	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	17.45	ug/m3	
		Lab Fort Blk. % Rec.	86.20	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	18.17	ug/m3	
		Lab Fort Blk. % Rec.	91.60	%	70-130
	Ethanol	Lab Fort Blank Amt.	9.42	ug/m3	
		Lab Fort Blk. Found	13.09	ug/m3	
		Lab Fort Blk. % Rec.	138.99	%	50-150
	4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	21.53	ug/m3	
		Lab Fort Blk. % Rec.	87.60	%	50-150
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3	
		Lab Fort Blk. Found	15.68	ug/m3	
		Lab Fort Blk. % Rec.	86.99	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	17.36	ug/m3	
		Lab Fort Blk. % Rec.	87.60	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	10.94	ug/m3	
		Lab Fort Blk. % Rec.	85.60	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	18.61	ug/m3	
		Lab Fort Blk. % Rec.	107.20	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	18.65	ug/m3	
		Lab Fort Blk. % Rec.	80.99	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	8.54	ug/m3	
		Lab Fort Blk. % Rec.	82.80	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	16.92	ug/m3	
		Lab Fort Blk. % Rec.	87.20	%	70-130
	Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	11.42	ug/m3	
		Lab Fort Blk. % Rec.	86.60	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	18.74	ug/m3	

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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-61094					
	cis-1,3-Dichloropropene	Lab Fort Blk. % Rec.	82.59	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	19.38	ug/m3	
		Lab Fort Blk. % Rec.	85.39	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	37.31	ug/m3	
		Lab Fort Blk. % Rec.	87.59	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	21.93	ug/m3	
		Lab Fort Blk. % Rec.	80.39	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	29.59	ug/m3	
		Lab Fort Blk. % Rec.	86.19	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	55.14	ug/m3	
		Lab Fort Blk. % Rec.	103.40	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	37.40	ug/m3	
		Lab Fort Blk. % Rec.	100.80	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	21.68	ug/m3	
		Lab Fort Blk. % Rec.	88.20	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	21.92	ug/m3	
		Lab Fort Blk. % Rec.	89.20	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	14.21	ug/m3	
		Lab Fort Blk. % Rec.	82.59	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	17.12	ug/m3	
		Lab Fort Blk. % Rec.	86.40	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	18.20	ug/m3	
		Lab Fort Blk. % Rec.	78.79	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	22.35	ug/m3	
		Lab Fort Blk. % Rec.	90.39	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	22.93	ug/m3	
		Lab Fort Blk. % Rec.	88.60	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	14.20	ug/m3	
		Lab Fort Blk. % Rec.	91.19	%	70-130

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QC SUMMARY REPORT

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BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 4/2/2007 Lims Bat # : LIMT-04559

QC Batch Number: BATCH-12148

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-61094					
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	12.00	ug/m3	
		Lab Fort Blk. % Rec.	68.20	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	15.28	ug/m3	
		Lab Fort Blk. % Rec.	74.59	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	28.41	ug/m3	
		Lab Fort Blk. % Rec.	84.80	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	31.81	ug/m3	
		Lab Fort Blk. % Rec.	82.80	%	70-130
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	15.73	ug/m3	
		Lab Fort Blk. % Rec.	76.79	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	31.31	ug/m3	
		Lab Fort Blk. % Rec.	89.60	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	12.35	ug/m3	
		Lab Fort Blk. % Rec.	83.80	%	50-150
	Propene	Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	6.45	ug/m3	
		Lab Fort Blk. % Rec.	75.00	%	50-150
	1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	9.18	ug/m3	
		Lab Fort Blk. % Rec.	83.00	%	70-130

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

NOTES:

QC Batch No. : BATCH-12148
Sample ID : 07B08243
Analysis : Cyclohexane

DUPLICATE RPD IS OUTSIDE OF CONTROL LIMITS. REDUCED PRECISION IS ANTICIPATED FOR REPORTED RESULT. SEE QC SUMMARY REPORT.

QC Batch No. : BATCH-12148
Sample ID : LFBLANK-60747
Analysis : 1,2,4-Trichlorobenzene

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. DATA VALIDATION IS NOT AFFECTED SINCE ALL RESULTS ARE "NOT DETECTED" FOR ALL SAMPLES IN THIS BATCH FOR THIS COMPOUND AND BIAS IS ON THE HIGH SIDE.

QC Batch No. : BATCH-12148
Sample ID : LFBLANK-60747
Analysis : Ethanol

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

QC Batch No. : BATCH-12148
Sample ID : LFBLANK-60747
Analysis : Hexachlorobutadiene

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. DATA VALIDATION IS NOT AFFECTED SINCE ALL RESULTS ARE "NOT DETECTED" FOR ALL SAMPLES IN THIS BATCH FOR THIS COMPOUND AND BIAS IS ON THE HIGH SIDE.

QC Batch No. : BATCH-12148
Sample ID : LFBLANK-60748
Analysis : Vinyl Acetate

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

QC Batch No. : BATCH-12148
Sample ID : LFBLANK-61071
Analysis : Vinyl Acetate

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

QC Batch No. : BATCH-12148
Sample ID : LFBLANK-61094
Analysis : Vinyl Acetate

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
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Method Blanks

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

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www.contestlabs.com

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

CHAIN OF CUSTODY RECORD

LIMT-04559

Company Name: MACTEC
Address: 511 Congress Str. PORTLAND, ME 04101
Attention: JEFF BRANDOW
Project Location: ROCHESTER, NY
Sampled By: Wolfgang Calicchio

Telephone: (207) 775-5401
Project # 3616036009.01
Client PO #

DATA DELIVERY (check one): ☐FAX ☐EMAIL ☐WEBSITE CLIENT
Fax #:
Email:
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER

Proposal Provided? (For Billing purposes) ☐ yes ______ proposal date
State Form Required? ☐ yes ☐ no

# of containers: 1
**Preservation: n/a
~Cont.Code: S

ANALYSIS REQUESTED: TO-15 plus chloropyridines

Field ID	Sample Description	Lab # 07B	Start Date/Time	Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code	TO-15 plus chloropyridines	Client Comments
	IA-07-001	08238	3/14/07 0750	3/14/07 1310	✓		A	U	✓	
	SG-07-188	08239	3/14/07 0750	3/14/07 1050	✓		O	|	✓	
	IA-07-002	08240	3/14/07 0935	3/14/07 1634	✓		A	|	✓	
	SG-07-189	08241	3/14/07 0935	3/14/07 1657	✓		O	|	✓	
	IA-07-003	08242	3/14/07 0818	3/14/07 1055	✓		A	|	✓	
	SG-07-190	08243	3/14/07 0818	3/14/07 1550	✓		O	|	✓	
	IA-07-004	08244	3/14/07 0738	3/14/07 1545	✓		A	|	✓	
	SG-07-191	—	3/14/07 0738	3/14/07 0830	✓		O	|	Do not analyze	Do not analyze SG-07-191

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in **Matrix/Conc.** Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Cont. Code: A=amber glass, G=glass, P=plastic, ST=sterile, V=vial, S=summa can, T=tedlar bag, O=Other

Relinquished by: (signature) [signature]	Date/Time: 3/14/07 1720
Received by: (signature) Thomas [signature]	Date/Time: 3/15/07 0939
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☐ 7-Day
☐ 10-Day
☑ Other ____
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations? ______
Data Enhancement Project/RCP? ☐ Y ☐ N
Special Requirements or DL's: ______

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other soil vapor

****Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other
X = Na hydroxide
T = Na thiosulfate

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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CHAIN OF CUSTODY RECORD

LIMT-04559

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Client PO #

DATA DELIVERY (check one): ☐FAX ☐EMAIL ☐WEBSITE CLIENT
Fax # :
Email:
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER

Proposal Provided? (For Billing purposes) ☐ yes ______ proposal date

State Form Required? ☐ yes ☐ no

ANALYSIS REQUESTED

# of containers: 1
**Preservation: n/a
~Cont.Code: S

Field ID	Sample Description	Lab # 07B	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code	TO-15 plus chloropyridines											Client Comment
	IA-07-005	08245	3/14/07 0807	3/14/07 1720	✓		A	U	✓											
	SG-07-192	08246	3/14/07 0807	3/14/07 1708	✓		O	↓	✓											
	IA-07-006	08247	3/14/07 0731	3/14/07 1441	✓		A	↓	✓											
	SG-07-193	08248	3/14/07 0731	3/14/07 1322	✓		O	↓	✓											
	OA-07-001	08249	3/14/07 0809	3/14/07 1614	✓		A	↓	✓											
	IA-07-002DUP	08250	3/14/07 0835	3/14/07 1636	✓		A	↓	✓											
	SG-07-191RE	08251	3/14/07 0901	3/14/07 1330	✓		O	↓	✓											

~Cont. Code: A=amber glass, G=glass, P=plastic, ST=sterile, V= vial, S=summa can, T=tedlar bag, O=Other

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in **Matrix/Conc.** Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

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Received by: (signature) Thomas Hutch	3/15/07 0939
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☐ 7-Day
☐ 10-Day
☑ Other
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations?
Data Enhancement Project/RCP? ☐ Y ☐ N
Special Requirements or DL's:

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other soil vapor

****Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other
X = Na hydroxide
T = Na thiosulfate

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

SAMPLE RECEIPT CHECKLIST

CLIENT NAME: Mac Tec

RECEIVED BY: TPH DATE: 3-15-07

1. Was chain of custody relinquished and signed? (YES) NO
2. Does Chain agree with samples? (YES) NO

If not, explain:

3. All Samples in good condition? (YES) NO

If not, explain:

4. Were samples received in compliance with Temperature 0-6 degrees C? YES NO Degrees: N/A
5. Are all soil vph & voc samples covered with preservation? YES N/A NO
6. Are there any on hold samples? YES (NO)
7. Laboratory analysts notified? (YES) NO
   Who_____ Time_____ Date_____
8. Location where samples are stored: Air Lab

CONTAINERS SENT IN TO CON-TEST	# of containers
1 liter amber	
500 ml amber	
250 ml amber (8oz. Amber)	
1 liter plastic	
500 ml plastic	
250 ml plastic	
40 ml vial	
Colisure bottle	
Dissolved oxygen bottle	
Flashpoint bottle	

CONTAINERS SENT TO CON-TEST		# of containers
Air Cassettes		
8 oz clear jar		
4 oz clear jar		
2 oz clear jar		
Plastic bag		
Encore		
Brass Sleeves		
Tubes		
Summa cans	6L	15
Other	Reg	15

Laboratory comments:

Do all the samples have the correct pH levels? YES NO If no, please explain below:

APPENDIX D

RISK CALCULATIONS

TABLE D-1
INHALATION EXPOSURE TO INDOOR AIR
OFFICE - VAPOR INTRUSION PATHWAY POTENTIALLY COMPLETE & GREATER THAN SCREENING VALUES

ARCH CHEMICALS
ROCHESTER, NY

EXPOSURE PARAMETERS

PARAMETER	SYMBOL	VALUE	UNITS	SOURCE
AIR CONCENTRATION	[CA]air	Calculated	ug/m^3	Measured
CONVERSION FACTOR 1	CF1	24	hours/day	
EXPOSURE TIME DAILY	ET	8	hours/day	EPA, 2002
EXPOSURE FREQUENCY	EF	250	days/year	EPA, 2002
EXPOSURE DURATION	ED	25	years	EPA, 2002
CONVERSION FACTOR 2	CF2	365	days/year	
AVERAGING TIME CANCER	AT	70	years	EPA, 2002
AVERAGING TIME NONCANCER	AT	25	years	EPA, 2002

EPA, 2002: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER 9355.4-24. Values for indoor commercial/industrial worker.

Prepared by: KJC
Checked by: JHP

EQUATIONS

CANCER RISK = AVG. CONC. (ug/m^3) * CANCER UNIT RISK ($ug/m^3)^{-1}$
HAZARD QUOTIENT = AVG.CONC.(ug/m^3)/REF. CONC. (ug/m^3)

$$\text{AVG. EXPOSURE CONC.} = \frac{[CA]air * EF * ET * ED}{AT * CF1 * CF2}$$

***For noncarcinogenic effects: AT = ED**

TABLE D-1
INHALATION EXPOSURE TO INDOOR AIR
OFFICE - VAPOR INTRUSION PATHWAY POTENTIALLY COMPLETE & GREATER THAN SCREENING VALUES

ARCH CHEMICALS
ROCHESTER, NY

CARCINOGENIC EFFECTS

COMPOUND	INDOOR AIR CONCENTRATION (ug/m^3)	AVERAGE AIR CONCENTRATION LIFETIME (ug/m^3)	INHALATION CANCER UNIT RISK $(ug/m^3)^{-1}$	CANCER RISK
2-Chloropyridine	2.40E+01	2.0E+00	6.20E-06	1.2E-05
		SUMMARY CANCER RISK		**1E-05**

NC - not potentially carcinogenic or no unit risk factor available.

TABLE D-1
INHALATION EXPOSURE TO INDOOR AIR
OFFICE - VAPOR INTRUSION PATHWAY POTENTIALLY COMPLETE & GREATER THAN SCREENING VALUES

ARCH CHEMICALS
ROCHESTER, NY

NONCARCINOGENIC EFFECTS

COMPOUND	INDOOR AIR CONCENTRATION (ug/m^3)	AVERAGE AIR CONCENTRATION FOR TIME PERIOD (ug/m^3)	CHRONIC INHALATION RfC [1] (ug/m^3)	HAZARD QUOTIENT
2-Chloropyridine	2.40E+01	5.5E+00	1.00E+01	5.5E-01
		SUMMARY HAZARD INDEX		**5E-01**

NA - not available

TABLE D-2
INHALATION EXPOSURE TO INDOOR AIR
WAREHOUSE - VAPOR INTRUSION PATHWAY POTENTIALLY COMPLETE & GREATER THAN SCREENING VALUES

ARCH CHEMICALS
ROCHESTER, NY

EXPOSURE PARAMETERS

PARAMETER	SYMBOL	VALUE	UNITS	SOURCE
AIR CONCENTRATION	[CA]air	Calculated	ug/m^3	Measured
CONVERSION FACTOR 1	CF1	24	hours/day	
EXPOSURE TIME DAILY	ET	8	hours/day	EPA, 2002
EXPOSURE FREQUENCY	EF	250	days/year	EPA, 2002
EXPOSURE DURATION	ED	25	years	EPA, 2002
CONVERSION FACTOR 2	CF2	365	days/year	
AVERAGING TIME CANCER	AT	70	years	EPA, 2002
AVERAGING TIME NONCANCER	AT	25	years	EPA, 2002

EPA, 2002: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER 9355.4-24. Values for indoor commercial/industrial worker.

Prepared by: KJC
Checked by: JHP

EQUATIONS

CANCER RISK = AVG. CONC. (ug/m^3) * CANCER UNIT RISK ($ug/m^3)^{-1}$
HAZARD QUOTIENT = AVG.CONC.(ug/m^3)/REF. CONC. (ug/m^3)

$$\text{AVG. EXPOSURE CONC.} = \frac{[CA]air * EF * ET * ED}{AT * CF1 * CF2}$$

***For noncarcinogenic effects: AT = ED**

TABLE D-2
INHALATION EXPOSURE TO INDOOR AIR
WAREHOUSE - VAPOR INTRUSION PATHWAY POTENTIALLY COMPLETE & GREATER THAN SCREENING VALUES

ARCH CHEMICALS
ROCHESTER, NY

CARCINOGENIC EFFECTS

COMPOUND	INDOOR AIR CONCENTRATION (ug/m^3)	AVERAGE AIR CONCENTRATION LIFETIME (ug/m^3)	INHALATION CANCER UNIT RISK $(ug/m^3)^{-1}$	CANCER RISK
2,6-Dichloropyridine	2.53E+02	2.1E+01	6.20E-06	1.3E-04
2-Chloropyridine	3.99E+02	3.3E+01	6.20E-06	2.0E-04
Chloroform	2.33E+00	1.9E-01	2.30E-05	4.4E-06
		SUMMARY CANCER RISK		**3E-04**

NC - not potentially carcinogenic or no unit risk factor available.

TABLE D-2
INHALATION EXPOSURE TO INDOOR AIR
WAREHOUSE - VAPOR INTRUSION PATHWAY POTENTIALLY COMPLETE & GREATER THAN SCREENING VALUES

ARCH CHEMICALS
ROCHESTER, NY

NONCARCINOGENIC EFFECTS

COMPOUND	INDOOR AIR CONCENTRATION (ug/m^3)	AVERAGE AIR CONCENTRATION FOR TIME PERIOD (ug/m^3)	CHRONIC INHALATION RfC [1] (ug/m^3)	HAZARD QUOTIENT
2,6-Dichloropyridine	2.53E+02	5.8E+01	1.00E+01	5.8E+00
2-Chloropyridine	3.99E+02	9.1E+01	1.00E+01	9.1E+00
1,2,4-Trimethylbenzene	1.96E+02	4.5E+01	6.00E+00	7.4E+00
1,3,5-Trimethylbenzene	7.52E+01	1.7E+01	6.00E+00	2.9E+00
4-Ethyltoluene	9.45E+01	2.2E+01	NA	
Chloroform	2.33E+00	5.3E-01	1.00E+02	5.3E-03
Cyclohexane	5.51E-01	1.3E-01	4.90E+02	2.6E-04
Heptane	6.35E+00	1.4E+00	NA	
		SUMMARY HAZARD INDEX		**2.5E+01**

NA - not available

TABLE D-3
INHALATION EXPOSURE TO INDOOR AIR
WAREHOUSE - VAPOR INTRUSION PATHWAY POTENTIALLY COMPLETE, GREATER THAN SCREENING VALUES & NOT USED AT FACILITY

ARCH CHEMICALS
ROCHESTER, NY

EXPOSURE PARAMETERS

PARAMETER	SYMBOL	VALUE	UNITS	SOURCE
AIR CONCENTRATION	[CA]air	Calculated	ug/m^3	Measured
CONVERSION FACTOR 1	CF1	24	hours/day	
EXPOSURE TIME DAILY	ET	8	hours/day	EPA, 2002
EXPOSURE FREQUENCY	EF	250	days/year	EPA, 2002
EXPOSURE DURATION	ED	25	years	EPA, 2002
CONVERSION FACTOR 2	CF2	365	days/year	
AVERAGING TIME CANCER	AT	70	years	EPA, 2002
AVERAGING TIME NONCANCER	AT	25	years	EPA, 2002

EPA, 2002: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER 9355.4-24. Values for indoor commercial/industrial worker.

Prepared by: KJC
Checked by: JHP

EQUATIONS

CANCER RISK = AVG. CONC. (ug/m^3) * CANCER UNIT RISK ($ug/m^3)^{-1}$
HAZARD QUOTIENT = AVG.CONC.(ug/m^3)/REF. CONC. (ug/m^3)

$$\text{AVG. EXPOSURE CONC.} = \frac{[CA]air * EF * ET * ED}{AT * CF1 * CF2}$$

***For noncarcinogenic effects: AT = ED**

TABLE D-3
INHALATION EXPOSURE TO INDOOR AIR
WAREHOUSE - VAPOR INTRUSION PATHWAY POTENTIALLY COMPLETE, GREATER THAN SCREENING VALUES & NOT USED AT FACILITY

ARCH CHEMICALS
ROCHESTER, NY

CARCINOGENIC EFFECTS

COMPOUND	INDOOR AIR CONCENTRATION (ug/m^3)	AVERAGE AIR CONCENTRATION LIFETIME (ug/m^3)	INHALATION CANCER UNIT RISK $(ug/m^3)^{-1}$	CANCER RISK
no potentially carcinogenic constituents				
		SUMMARY CANCER RISK		**0E+00**

NC - not potentially carcinogenic or no unit risk factor available.

TABLE D-3
INHALATION EXPOSURE TO INDOOR AIR
WAREHOUSE - VAPOR INTRUSION PATHWAY POTENTIALLY COMPLETE, GREATER THAN SCREENING VALUES & NOT USED AT FACILITY

ARCH CHEMICALS
ROCHESTER, NY

NONCARCINOGENIC EFFECTS

COMPOUND	INDOOR AIR CONCENTRATION (ug/m^3)	AVERAGE AIR CONCENTRATION FOR TIME PERIOD (ug/m^3)	CHRONIC INHALATION RfC [1] (ug/m^3)	HAZARD QUOTIENT
1,2,4-Trimethylbenzene	1.96E+02	4.5E+01	6.00E+00	7.4E+00
1,3,5-Trimethylbenzene	7.52E+01	1.7E+01	6.00E+00	2.9E+00
4-Ethyltoluene	9.45E+01	2.2E+01	NA	
Cyclohexane	5.51E-01	1.3E-01	4.90E+02	2.6E-04
Heptane	6.35E+00	1.4E+00	NA	
		SUMMARY HAZARD INDEX		**1.0E+01**

NA - not available

TABLE D-4
INHALATION EXPOSURE TO INDOOR AIR
PRODUCTION - VAPOR INTRUSION PATHWAY POTENTIALLY COMPLETE & GREATER THAN SCREENING VALUES

ARCH CHEMICALS
ROCHESTER, NY

EXPOSURE PARAMETERS

PARAMETER	SYMBOL	VALUE	UNITS	SOURCE
AIR CONCENTRATION	[CA]air	Calculated	ug/m^3	Measured
CONVERSION FACTOR 1	CF1	24	hours/day	
EXPOSURE TIME DAILY	ET	8	hours/day	EPA, 2002
EXPOSURE FREQUENCY	EF	250	days/year	EPA, 2002
EXPOSURE DURATION	ED	25	years	EPA, 2002
CONVERSION FACTOR 2	CF2	365	days/year	
AVERAGING TIME CANCER	AT	70	years	EPA, 2002
AVERAGING TIME NONCANCER	AT	25	years	EPA, 2002

EPA, 2002: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER 9355.4-24. Values for indoor commercial/industrial worker.

Prepared by: KJC
Checked by: JHP

EQUATIONS

CANCER RISK = AVG. CONC. (ug/m^3) * CANCER UNIT RISK ($ug/m^3)^{-1}$
HAZARD QUOTIENT = AVG.CONC.(ug/m^3)/REF. CONC. (ug/m^3)

$$\text{AVG. EXPOSURE CONC.} = \frac{[CA]air * EF * ET * ED}{AT * CF1 * CF2}$$

***For noncarcinogenic effects: AT = ED**

TABLE D-4
INHALATION EXPOSURE TO INDOOR AIR
PRODUCTION - VAPOR INTRUSION PATHWAY POTENTIALLY COMPLETE & GREATER THAN SCREENING VALUES

ARCH CHEMICALS
ROCHESTER, NY

CARCINOGENIC EFFECTS

COMPOUND	INDOOR AIR CONCENTRATION (ug/m^3)	AVERAGE AIR CONCENTRATION LIFETIME (ug/m^3)	INHALATION CANCER UNIT RISK $(ug/m^3)^{-1}$	CANCER RISK
2,6-Dichloropyridine	4.22E+01	3.4E+00	6.20E-06	2.1E-05
2-Chloropyridine	7.70E+02	6.3E+01	6.20E-06	3.9E-04
Carbon Tetrachloride	2.23E+00	1.8E-01	1.50E-05	2.7E-06
Chloroform	1.17E+01	9.5E-01	2.30E-05	2.2E-05
SUMMARY CANCER RISK				**4E-04**

NC - not potentially carcinogenic or no unit risk factor available.

TABLE D-4
INHALATION EXPOSURE TO INDOOR AIR
PRODUCTION - VAPOR INTRUSION PATHWAY POTENTIALLY COMPLETE & GREATER THAN SCREENING VALUES

ARCH CHEMICALS
ROCHESTER, NY

NONCARCINOGENIC EFFECTS

COMPOUND	INDOOR AIR CONCENTRATION (ug/m^3)	AVERAGE AIR CONCENTRATION FOR TIME PERIOD (ug/m^3)	CHRONIC INHALATION RfC [1] (ug/m^3)	HAZARD QUOTIENT
2,6-Dichloropyridine	4.22E+01	9.6E+00	1.00E+01	9.6E-01
2-Chloropyridine	7.70E+02	1.8E+02	1.00E+01	1.8E+01
Carbon Tetrachloride	2.23E+00	5.1E-01	1.80E+02	2.8E-03
Chloroform	1.17E+01	2.7E+00	1.00E+02	2.7E-02
Ethanol	4.50E+01	1.0E+01	NA	
		SUMMARY HAZARD INDEX		**1.9E+01**

NA - not available

TABLE D-5
INHALATION EXPOSURE TO INDOOR AIR
PRODUCTION AREA - CONSTITUENTS WITH COMPLETE PATHWAYS ONLY

ARCH CHEMICALS
ROCHESTER, NY

EXPOSURE PARAMETERS

PARAMETER	SYMBOL	VALUE	UNITS	SOURCE
AIR CONCENTRATION	[CA]air	Calculated	ug/m^3	Measured
CONVERSION FACTOR 1	CF1	24	hours/day	
EXPOSURE TIME DAILY	ET	8	hours/day	EPA, 2002
EXPOSURE FREQUENCY	EF	250	days/year	EPA, 2002
EXPOSURE DURATION	ED	25	years	EPA, 2002
CONVERSION FACTOR 2	CF2	365	days/year	
AVERAGING TIME CANCER	AT	70	years	EPA, 2002
AVERAGING TIME NONCANCER	AT	25	years	EPA, 2002

EPA, 2002: Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER 9355.4-24. Values for indoor commercial/industrial worker.

Prepared by: KJC
Checked by: JHP

EQUATIONS

CANCER RISK = AVG. CONC. (ug/m^3) * CANCER UNIT RISK ($ug/m^3)^{-1}$
HAZARD QUOTIENT = AVG.CONC.(ug/m^3)/REF. CONC. (ug/m^3)

$$\text{AVG. EXPOSURE CONC.} = \frac{[CA]air * EF * ET * ED}{AT * CF1 * CF2}$$

***For noncarcinogenic effects: AT = ED**

TABLE D-5
INHALATION EXPOSURE TO INDOOR AIR
PRODUCTION AREA - CONSTITUENTS WITH COMPLETE PATHWAYS ONLY

ARCH CHEMICALS
ROCHESTER, NY

CARCINOGENIC EFFECTS

COMPOUND	INDOOR AIR CONCENTRATION (ug/m^3)	AVERAGE AIR CONCENTRATION LIFETIME (ug/m^3)	INHALATION CANCER UNIT RISK $(ug/m^3)^{-1}$	CANCER RISK
Carbon Tetrachloride	2.23E+00	1.8E-01	1.50E-05	2.7E-06
		SUMMARY CANCER RISK		**3E-06**

NC - not potentially carcinogenic or no unit risk factor available.

TABLE D-5
INHALATION EXPOSURE TO INDOOR AIR
PRODUCTION AREA - CONSTITUENTS WITH COMPLETE PATHWAYS ONLY

ARCH CHEMICALS
ROCHESTER, NY

NONCARCINOGENIC EFFECTS

COMPOUND	INDOOR AIR CONCENTRATION (ug/m^3)	AVERAGE AIR CONCENTRATION FOR TIME PERIOD (ug/m^3)	CHRONIC INHALATION RfC [1] (ug/m^3)	HAZARD QUOTIENT
Carbon Tetrachloride	2.23E+00	5.1E-01	1.80E+02	2.8E-03
Ethanol	4.50E+01	1.0E+01	NA	
		SUMMARY HAZARD INDEX		**3E-03**

NA - not available