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January 13, 2012

Michelle Mullin
Project Manager
USEPA, Region 5
77 West Jackson Boulevard
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Chicago, IL 60604-3590

Subject: **RCRA 3008(h) Administrative Order on Consent (RCRA-05-2010-0012) – Tecumseh Products Company**
Fourth Quarter 2011 Progress Report – MID 005-049-440

Dear Ms. Mullin:

Pursuant to Section VI of the above referenced Administrative Order on Consent (Consent Order) effective March 29, 2010, TRC Environmental Corporation (TRC), on behalf of the Respondent, Tecumseh Products Company (TPC) submits this Fourth Quarter 2011 Progress Report. This report covers activities related to the Consent Order completed by TPC during the Fourth Quarter 2011 and planned for completion in the near future. The organization of this document includes as major headings the items required under Sections V through VIII of the Consent Order.

V. Project Manager

- The TPC Project Manager is Graham Crockford of TRC, formerly RMT, Inc.[1]
- The USEPA Project Manager is Michelle Mullin.

VI. Work to be Performed – Remedial Investigation Report and Environmental Indicators Reports

1. A Description of activities related to the completion of the Remedial Investigation (RI) Report and the Environmental Indicator (EI) Reports:

[1] On June 6, 2011 TRC acquired the Environmental Business Unit of RMT, Inc. For purposes of this and future reports, references to TRC are inclusive of RMT, Inc., prior to its acquisition by TRC.

- **Investigation Activities**
  - **Characterize Releases at or from the Facility –** Results of the on-site investigations are presented in the following documents: Environmental Site Assessment for Tecumseh Products Company, Tecumseh, Michigan (ENVIRON, October 2007), Phase I Environmental Site Assessment for the Tecumseh Products (Atwell-Hicks, October 2008), Phase II Environmental Site Assessment, Tecumseh Products Company (ATC, September 2009), the Current Conditions Report (RMT, September 2009), and the January 10, 2011 Technical Memorandum titled, "Summary of 2010 Soil and Groundwater Source Area Investigation Activities," which was submitted with the Fourth Quarter 2010 Quarterly Progress Report.
  - **Define Appropriate Screening Criteria –** As described in the September 2009 Current Conditions Report (CCR) and the September 2011 Current Human Exposures Under Control Environmental Indicator Report (EI Report), the Michigan Department of Environmental Quality (MDEQ) Part 201 Criteria will typically be used to assess risk related to the ingestion of, or direct contact with, affected media. Currently groundwater data indicate that groundwater in a well upgradient of the River Raisin, has concentrations slightly above generic Part 201 groundwater/surface water interface (GSI) criteria. Although it is unlikely that the concentrations of volatile organic compounds (VOCs) venting to the River Raisin represent a risk to the environment, a mixing zone determination, requesting site specific GSI criteria, may be submitted to MDEQ. As described in the September 2011 EI Report, screening levels for the volatilization to indoor air migration pathway were developed in accordance with both current regulation and state and federal guidance. See the September 2011 EI Report for further details.
  - **Define Any Unacceptable Risks to Human Health –** Current human exposure to affected media is described in the September 2011 EI Report.

    Groundwater – As of November 2011, all properties within the area of affected groundwater were connected to the municipal water supply system. No private wells within this area are in use. A Groundwater Use Ordinance was passed in June 2011. This ordinance prohibits new private water wells with the area of affected groundwater.

    Surface Water – In March 2011, USEPA notified TPC that a "spring or artesian well that residents commonly drink from is located on the west bank of the River Raisin, on the north side of the old Blood Road Bridge." In December 2011, USEPA reiterated concerns regarding human exposures to affected surface water in a comment letter regarding the September 2011 EI Report. Investigation activities to address USEPA concerns were originally documented in the Second Quarter 2011 Progress Report, and were reiterated in the December 19, 2011 response to USEPA comments. In April 2011,

TRC communicated with a local resident for help locating the spring and conducted site reconnaissance to locate and identify the alleged spring. The resident stated that persons may have drunk from the spring years ago, when he was a child, but that he was unaware of continued use. During site reconnaissance near the old Blood Road Bridge, no well, fountain, or other devise to facilitate collection of seeping groundwater was identified, and the groundwater seep was of insufficient volume to reasonably fill a water bottle or cupped hands. As documented to in the September 2011 EI Report, current human exposure to affected surface water is under control.

Volatilization to Indoor Air – An updated evaluation of the potential for off-site vapor intrusion at the site was provided in the September 2011 EI Report. This evaluation was supplemented with crawlspace and indoor air sample data collected in October and November 2011. These data were documented in the December 19, 2011 response to USEPA comments on the September 2011 EI Report. Recent off-site soil gas data from sample events conducted in September 2011 and November 2011 are reported in the January 10, 2012 Technical Memorandum titled, "Summary of 2011 Soil Gas Investigation Activities," which is included as Appendix A.

- **Define Any Unacceptable Risks to the Environment –** The potential for unacceptable risk to the environment related to the discharge of affected groundwater to nearby surface water and wetlands was partially defined in the September 2009 CCR and the February 2010 Technical Memorandum titled Status Update – Characterization of Volatile Organic Compounds in Groundwater. Further investigation was conducted between March 2010 and June 2010 to define the maximum extent of affected groundwater. The results of this investigation were included in a Technical Memorandum titled "Summary of Groundwater Investigation Activities – March 2010 through June 2010, Former Tecumseh Products Company Site, Tecumseh, Michigan," which was submitted with the Second Quarter 2010 Progress Report. Currently groundwater data indicate that groundwater in a well upgradient of the River Raisin, has concentrations of trichloroethene (TCE) above generic Part 201 GSI criteria. Although it is unlikely that the concentrations of VOCs venting to the River Raisin represent a risk to the environment, a mixing zone determination requesting site specific GSI criteria may be submitted to MDEQ. Site-specific, mixing zone based GSI criteria typically range between ten times the generic GSI criterion (2,000 ug/L for TCE) and the MDEQ final acute value (3,500 ug/L for TCE). Therefore, the site-specific mixing zone based GSI criterion for TCE at the former TPC site is expected to be well above groundwater concentrations near the River Raisin (up to 340 ug/L).
- **Determine the Stability of Contaminated Groundwater –** A quarterly groundwater monitoring program is underway to assess the stability of contaminated groundwater. Concentrations of chlorinated volatile organic compounds (CVOCs) at previously sampled

locations are generally consistent with historic data. (See Appendix B for a copy of the January 5, 2012 Technical Memorandum titled, "Fourth Quarter 2011 Groundwater Monitoring Event.") Once a sufficient quantity of data (typically eight sample events at each location) has been collected, TRC will statistically assess the stability of the CVOCs in groundwater to determine the stability of contaminated groundwater.

- **Response and Mitigation Measures**
  - **Decommission Affected Private Wells –** Two off-site private wells with affected water were identified. The first was decommissioned in 2009 (parcel number 323-0330-00) and the second was decommissioned in November 2010 (parcel number 325-0322-00). Three other private wells that were used as a primary water source within the area of potentially affected groundwater were monitored in 2009 and 2010 to confirm that VOCs were not detected at those wells. In December 2011, following the passage of the Local Groundwater Use Ordinance described below, the remaining three private supply wells which were used as a primary water source within the area of affected groundwater were also decommissioned.
  - **Declaration of Restrictive Covenant –** As part of the Purchase Agreement between TPC and Tecumseh Bakery, LLC, a Declaration of Restrictive Covenant for the facility was recorded with the Lenawee County Resister of Deeds. This Restrictive Covenant restricts the installation and use of on-site wells (excluding monitoring wells or other wells installed as part of the environmental work) and restricts Residential and Commercial I land use as defined by the MDEQ at the facility. The License Agreement Regarding Environmental Work provides provisions for additional restrictions to be placed on the property as needed.
  - **Local Groundwater Use Ordinance –** The City of Tecumseh and TPC worked with the MDEQ to develop a Groundwater Use Ordinance, which the City of Tecumseh passed on June 6, 2011. This ordinance restricts groundwater use within a restricted area, which includes the area of affected groundwater, as well as an approximately one block buffer zone around the area of affected groundwater. Groundwater use is restricted as follows:
    - The installation, development, maintenance, and use of private water wells is prohibited;
    - Connection to the municipal water supply is required; and
    - Existing private water wells must be abandoned.
  - **Decommission Private Wells in the Vicinity of Affected Groundwater –** In conjunction with the preparation of the Groundwater Use Ordinance, TPC agreed to identify and abandon, with owner consent, private wells within the restricted zone. On March 25, 2011, RMT, on behalf of TPC, mailed a letter to each of the property owners affected by the proposed ordinance. The letters included a well survey card. On May 12, 2011, June 30,

2011, and again on August 8, 2011, follow-up letters with additional copies of the well survey cards were sent to property owners that had not yet responded. A phone survey and/or a door-to-door survey were conducted by TPC at properties which did not return the well survey card. The well survey did not identify any additional wells that are used as a primary water source. At the three properties within the area of affected groundwater where private wells were used as the primary water source, TPC arranged for connection to the municipal water supply (November 2011) and decommissioned those wells (December 2011). TPC has obtained access agreements to decommission the two remaining wells within the restricted area that are in use; both of these wells are outside the area of affected groundwater. In December 2011, TPC initiated communication with the remaining private well owners regarding well abandonment at properties where private wells are not in use.

- **Mitigation of Indoor Air (On-Site) –** The site is currently occupied by approximately 15 TPC employees, who will be relocated to a new facility by the end of the first quarter 2012, and by on-site security. A sub-slab depressurization/ventilation (SSDV) system was installed in S-Building which houses on-site security in October 2011. Other workers have been observed accessing the property with the apparent consent of Tecumseh Bakery, LLC (the property owner) or PatJim Holdings (the tenant of the entire facility) both of which are under the common control of James Appold. TPC has prepared, and provided to counsel for Mr. Appold, an interim mitigation strategy, via HVAC controls, for P-Building which is the newest portion of the facility and the portion of the facility most likely to be occupied by new owners/occupants (March 25, 2010). TPC has not received any notice of a transfer of ownership or occupancy from the title holder (Tecumseh Bakery LLC) or the master tenant (PatJim Holdings).
- **Mitigation of Indoor Air (Off-Site) –** SSDV system installation and/or crawlspace sampling activities were conducted in October 2011 at the five residential properties east of the site. In addition, a permeable reactive barrier (PRB) was installed downgradient of the southern source area, along the former TPC site property line in May 2011. This PRB is an interim, proactive, corrective measure designed to address the potential off-site vapor intrusion pathway, by treating shallow CVOC-affected groundwater before the groundwater migrates off-site.
- **Control Unacceptable Risks to the Environment –** At present no unacceptable risks to the environment have been identified.
- **Stabilize Migration of Contaminated Groundwater –** The determination of stability of the affected groundwater is ongoing. A monitoring well network has been installed, and quarterly monitoring is underway to determine stability.

- **Reporting**
  - **Environmental Indicators Report: Current Human Exposures under Control –** TRC submitted the Current Human Exposures Under Control Environmental Indicators Report (September 2011 EI Report) to USEPA for review on September 29, 2011. USEPA provided TPC with comments regarding the EI Report on December 5, 2011. TPC responded to the USEPA comments on December 19, 2011. On December 28, 2011, USEPA proposed an extension for USEPA to complete the CA-725 Form until December 12, 2012, so that confirmation indoor air/crawlspace sampling data from the residential properties east of the site (610 Mohawk, 704 Mohawk, 502 Mohawk, 505 South Maumee Street and 507 South Maumee Street) can be evaluated by USEPA. TPC will provide supplemental information as it becomes available in 2012 to support USEPA completion of the CA-725 Form.
  - **Environmental Indicators Report: Groundwater Stabilized –** TRC will prepare the Groundwater Stabilized Environmental Indicators Report following completion of the tasks listed above which relate to the stabilization of groundwater contamination. This Groundwater Stabilized Environmental Indicators Report will be submitted to the USEPA no later than September 29, 2012.
  - **Remedial Investigation Report –** TRC will prepare the Remedial Investigation Report following completion of remedial investigation activities which determine the nature and extent of any releases of hazardous waste and hazardous constituents at or from the facility. This Remedial Investigation Report will be submitted to the USEPA no later than September 29, 2012.

2. Estimate of Percentage of Work Completed:
   - Work related to Remedial Investigation Report: 75% complete
   - Work related to the Environmental Indicators Report – Current Human Exposures Under Control: 100% complete. TPC is performing confirmation sampling in 2012. USEPA has elected to review confirmation sampling prior to completing the CA-725 Form.
   - Work related to the Environmental Indicators Report – Groundwater Stabilized: 75% complete

3. A Summary of Activities during the Reporting Period
   - Work related to evaluating the potential need for, and if necessary, the control of on-site human exposures:

  - October 2011 – A sub-slab depressurization/ventilation (SSDV) system was installed as a presumptive remedy to address the potential for vapor intrusion at S-Building, which houses on-site security.
  - October 2011 – An indoor air sample was collected from S-Building to evaluate the performance of the SSDV system.
  - October to December 2011 – TPC has continued the evaluation of potential source area control measures.

- Work related to evaluating the potential need for, and if necessary, the control of off-site human exposures:
  - October 2011 – Groundwater samples were collected at PRB monitoring locations.
  - October 2011 – A SSDV system was installed as a presumptive remedy to address the potential for vapor intrusion at the residential property located at 704 Mohawk Street.
  - October 2011 – Crawl space samples were collected at four residential properties located east of the site.
  - October 2011 – Passive vents were installed along the length of the PRB to help prevent methane from accumulating in the subsurface.
  - November 2011 – an initial round of methane concentrations were collected at vent sample ports.
  - November 2011 – TRC provided USEPA and the affected property owner with a construction documentation report for the SSDV system installed at 704 Mohawk Street which included results of the initial system performance evaluation and sub-slab sample results from the sample collected in October 2011.
  - November 2011 – TRC provided USEPA and affected property owners with the results of crawlspace samples collected in October 2011.
  - November 2011 – TRC conducted a SSDV system performance evaluation approximately 30 days after system installation. The performance evaluation included collection of a sub-slab sample and an indoor air sample.
  - November 2011 – The three properties in the vicinity of affected groundwater with private wells used as a primary (drinking) source of water were connected to the municipal water supply.
  - November 2011 – A round of off-site soil gas samples was collected.
  - November 2011 – A round of methane readings was collected at passive vents installed along the length of the PRB.

- October – November 2011 – TPC and TRC responded to property owner questions regarding the results of sub-slab and crawlspace sampling at residential properties east of the site.
- December 2011 – TPC conducted a door-to-door evaluation of private wells not used as a primary water source to help facilitate well decommissioning activities.
- December 2011 – An access agreement to decommission the existing well at 701 Mill Highway was signed.
- December 2011 – A round of methane readings was collected at passive vents installed along the length of the PRB.
- December 2011 – A pilot study was conducted to help develop design parameters for an active methane ventilation system at the north end of PRB Section 1.
- December 2011 – TPC received USEPA comments on the September 2011 EI Report.
- December 2011 – TPC responded to USEPA comments on the September 2011 EI Report.
- December 2011 – USEPA extended the date for USEPA to complete and file the CA-725 Form until December 12, 2012 in order to evaluate additional residential sub-slab and crawlspace sampling data from residential properties east of the site.
- December 2011 – The three private wells used as a primary (drinking) source of water properties in the vicinity of affected groundwater were decommissioned.

- Work related to evaluating the stabilization/migration of affected groundwater
  - October 2011 – the fourth quarter groundwater sample event was conducted.
  - November 2011 – a groundwater resample event was conducted at one location.
  - December 2011 – an evaluation of fourth quarter 2011 groundwater data was performed (Appendix A).

4. A Summary of Contacts with Representatives of Local Community, Public Interest Groups, or State Government during the Reporting Period

- In October 2011, TRC and USEPA communicated with property owners of four residential properties located downgradient of the southern source regarding the collection of crawlspace samples.
- In October 2011, TRC and USEPA communicated with the owner of a residential property east of the site regarding the installation of a SSDV system.

- TRC communicated with the City of Tecumseh in order to update the public repository at City Hall in October 2011.
- To address USEPA comments, TRC communicated with the City of Tecumseh and Tecumseh District Library personnel to facilitate the relocation of the public repository from City Hall to the Tecumseh District Library. The public repository was relocated and updated in November 2011.
- In November 2011, TRC provided the property owners of four properties downgradient of the southern source area with a letter report summarizing crawlspace sampling activities and sample results for their property/properties.
- In November 2011, TRC provided the owner of a residential property east of the site where a SSDV system was installed with a letter report documenting SSDV system construction, initial performance evaluation, and sub-slab sample results.
- TRC addressed property owner questions regarding crawlspace sample results in November 2011.
- TRC communicated with the owner of a residential property east of the site where a SSDV system was installed to coordinate and conduct a SSDV system performance evaluation including collection of an indoor air sample in November 2011.
- TPC communicated with the City of Tecumseh regarding the results of the 2011 private well survey. In November 2011, the City of Tecumseh notified private well owners of the requirement that private wells be decommissioned under the June 2011 amendments to the City of Tecumseh Code of Ordinances. This letter also noted that TPC had agreed to provide an authorized and reputable contractor to decommission private wells at no cost to the property owner, but that owners are not obligated to allow TPC or their contractor access to their property to decommission their well.
- TPC communicated with the owners of private wells used as a primary water supply to coordinate municipal water connection and well decommissioning at those properties.
- In December 2011, TPC conducted a door-to-door evaluation of the remaining private wells (those not in use or used as a secondary water supply) to help facilitate first/second quarter 2012 well decommissioning activities at those properties.
- At the request of one property owner, TPC provided that owner a copy of the Third Quarter 2011 Progress Report.
- TPC obtained access agreements with one private well owner to decommission their existing private well (used as a secondary water source).

- In December 2011, TRC provided the owner of a residential property east of the site where a SSDV system was installed with a letter report documenting the results of the November 2011 performance evaluation, including sub-slab and indoor air sample results.

5. A Summary of Problems and Potential Problems Encountered During the Reporting Period

- See the Data Quality Assurance sections in the attached technical memoranda (Appendices A and B).
- Generation of methane is an anticipated byproduct of the PRB. However, methane concentrations at the four northernmost passive vents were measured above the lower explosive limit. Given the finite mass of carbon added to the subsurface, and the limited rate at which methane can be produced, small electrical fans are needed. A table of measured methane concentrations at passive vent locations is provided in Appendix C. Fans are being installed on these vents as described in Section 6 below.

6. Action Taken to Rectify Problems Identified Above

- See the Data Quality Assurance sections in the attached technical memoranda (Appendices A and B).
- An active ventilation system will be installed along the northernmost portion of PRB Section 1 to reduce methane concentrations at the PRB. A pilot test to determine the necessary suction and flow rate to vent the PRB was conducted in December 2011. A pump test to monitor the reduction of methane concentrations over time is ongoing. Data show that with very limited pumping (2-3 cubic feet per minute per vent) at the 3 northern vents, methane generation at the PRB is controlled. An active ventilation system was constructed during the week of January 9, 2012. The active ventilation system is expected to be operational during the week of January 17, 2012 following connection to the power supply by the electric company.

7. Changes in Personnel during Reporting Period

- No project personnel have changed. However, TRC acquired the Environmental Business Unit of RMT on June 6, 2011. RMT personnel who had been working on the project will continue to do so as employees of TRC.

8. Projected Work for the Next Reporting Period

- Work related to evaluating the potential need for, and if necessary, the control of on-site human exposures
  - Complete relocation of TPC employees to new their new facility;

  - Conduct a quarterly SSDV system performance evaluation at S-Building, including collection of a confirmation indoor air sample; and
  - Continue the evaluation of potential source area control measures.
- Work related to evaluating the potential need for, and if necessary, the control of off-site human exposures
  - Install an active ventilation system along the northernmost portion of the PRB Section 1;
  - Submit the construction documentation report for the PRB to USEPA;
  - Collect the first quarter PRB groundwater samples;
  - Evaluate and document the results of the third and fourth quarter 2011 PRB groundwater data;
  - Conduct a quarterly SSDV system performance evaluation at the residential property located at 704 Mohawk, including collection of a sub-slab sample and an indoor air sample;
  - Collect confirmation crawlspace air samples at four residential properties east of the site;
  - Meet with USEPA in order to discuss current human exposure conditions and the USEPA completion and filing of the CA-725 Form;
  - Facilitate private well abandonment within the area restricted by the City of Tecumseh's Groundwater Use Ordinance;
  - Collect and analyze another round of off-site soil gas samples; and
  - Update tables to reflect the new TCE toxicity values.
- Work related to evaluating the stabilization/migration of affected groundwater:
  - Conduct and evaluate the first quarter groundwater sampling event;
  - Begin statistical evaluation of groundwater stability; and
  - Following receipt of USEPA comments, finalize the Quality Assurance Project Plan (QAPP).

VI. Work to be Performed – Final Corrective Measures Proposal

Preparation of the Final Corrective Measures Proposal will be initiated following completion of the Remedial Investigation Report and the Environmental Indicators Reports.

VI. Work to be Performed – Final Corrective Measures Implementation

Work related to the Final Corrective Measures Implementation will be initiated following USEPA's Final Decision.

VI. Work to be Performed – Establish Public Repository of Information

TPC established a public repository in the City Clerk's office at City Hall in August 2010. To address USEPA comments, the public repository was relocated to the Tecumseh District Library in November 2011. A notice sheet has been posted on the bulletin board at the Tecumseh District Library which lists and briefly describes the documents included in the public repository. TPC updates the public repository as appropriate.

VII. Access

Prior to the installation of four monitoring wells (MW-16s, MW-17s, MW-22, and MW-31), TPC obtained an access agreement with an off-site property owner so that RMT, now TRC, could access these wells for routine groundwater sampling. TPC obtained a revised access agreement which also provides access for USEPA and its representatives on May 11, 2010. On March 25, 2011, TPC obtained access agreements to install SSDV systems at the residences located at 610 Mohawk Street and 704 Mohawk Street. On September 23, 2011, TPC obtained an access agreement to conduct crawlspace sampling at three additional residential properties located east of the site. In 2011 TPC obtained four access agreements to decommission the existing private wells used as a primary water supply and to connect those properties to the municipal water supply. On December 15, 2011, TPC obtained an access agreement to decommission the existing well (secondary use) at 701 Mill Highway.

VIII. Cost Estimates and Assurances of Financial Responsibility

The Initial Cost Estimate was submitted to the USEPA on April 28, 2010. USEPA approved the Cost Estimate in a letter dated June 22, 2010. TPC submitted a draft Financial Assurance document to the USEPA for review on June 23, 2010. USEPA provided comments to the draft Financial Assurance document on June 25, 2010. The Financial Assurance documents were finalized on August 20, 2010. In accordance with the Consent Order, TPC submitted an annually updated cost estimate on January 28, 2011 and updated Financial Assurance documents on March 23, 2011.

If you have any questions regarding this progress report, or the attachments, please contact me at (734) 585-7813, or gcrockford@trcsolutions.com.

Sincerely,

TRC Environmental Corporation

Graham Crockford, C.P.G.
Project Manager

Attachments

Appendix A – January 10, 2012 Technical Memorandum titled, "Summary of 2011 Soil Gas Investigation Activities"
Appendix B – January 5, 2012 Technical Memorandum, titled "Summary of Fourth Quarter 2011 Groundwater Monitoring Event"
Appendix C – Table 1 – Summary of Gas Composition at Passive Vent Locations
Figure 1 – As-Build Passive Vent Locations

cc: Roger Jackson, Tecumseh Products Company
Jason Smith, Tecumseh Products Company
Tina Beresford, Tecumseh Products Company (TPC files)
Douglas McClure, Conlin, McKenney & Philbrick, PC
Stacy Metz, TRC
Tecumseh District Library– Public Repository
Mary Speer, Resident
Central Files

Appendix A

Technical Memorandum

To: Jason Smith, Tecumseh Products Company

From: Stacy Metz and Graham Crockford, TRC

Subject: 2011 Soil Gas Sample Events
RCRA 3008(h) Consent Order (RCRA-05-2010-0012) – Tecumseh Products Company

Date: January 10, 2012

cc: Roger Jackson, Tecumseh Products Company
Douglas McClure, Conlin, McKenney and Philbrick, PC

Tecumseh Products Company (TPC) retained TRC Environmental Corporation (TRC),[1] to investigate the potential for off-site vapor intrusion near the former TPC site located in Tecumseh, Michigan. TRC has been assisting TPC with investigative activities in accordance with the RCRA Administrative Order on Consent (RCRA 05-2010-0012) for the site.

These investigation activities included the installation of 16 soil gas monitoring points in 2010. Quarterly soil gas monitoring was initiated in April 2010. Quarterly sampling activities are conducted in accordance with the Quality Assurance Project Plan (QAPP) which was submitted to the United States Environmental Protection Agency (USEPA) for review in August 2010 and the Quarterly Sampling Plan described below.

Summary of the Quarterly Sampling Plan

Active soil gas samples are collected quarterly at each of the soil gas sample points as described below:

- Sample Apparatus – Each sample apparatus consists of a laboratory supplied certified clean 1-liter SUMMA® canister and a dedicated flow controller or critical orifice. The laboratory sets each flow controller to maintain a sampling rate of approximately 100 mL per minute. Each canister is evacuated to a nominal 26 to 30 inches of mercury (in. Hg), sealed, and shipped to the field under Chain-of-Custody documentation.
- Shut-In Leak Test – Each sampling apparatus is assembled according to the instructions provided by the analytical laboratory. The SUMMA® canister is connected to a dedicated flow controller with a Swagelock® connection. An approximately 6-inch section of tubing is then connected to the flow controller. The tubing is fitted with a moisture filter (female luer lock fitting). An approximately 3-inch section of Masterflex tubing, having an inner diameter of ¼ inch, is then

[1] On June 6, 2011 TRC acquired the Environmental Business Unit of RMT; for purposes of this memo, references to TRC are inclusive of RMT prior to its acquisition by TRC.

connected to the moisture filter (male slip luer fitting). Prior to sample collection, a vacuum is applied to the sample apparatus, and pressure is monitored for at least one minute to ensure that all connections are able to maintain the applied vacuum during that time. If the vacuum is not maintained, connections are checked and tightened as appropriate, and the shut-in leak test is repeated until the vacuum is maintained.

- Purge Sample Port – Prior to sample collection, the soil gas sample port is connected to a peristaltic pump using 0.25-inch I.D. Masterflex tubing and a Teflon tubing extension, if needed. The peristaltic pump is then used to purge the vapor probe for approximately 2 minutes, removing approximately 3 volumes (0.5 liters) of vapor to ensure that the sample will be representative of the soil gas and not the stagnant vapor in the sample point.
- Sample Collection – Upon completion of sample port purging, the sample point tubing is connected to the sample apparatus. A clear garbage bag is placed over the sample apparatus and sample point, and the quantitative tracer (beginning during the fourth quarter of 2011) is applied. The flow valve on the sample canister is opened to begin sample collection. During sample collection, the vacuum gage is monitored for a rapid drop in canister pressure which could indicate a leak in the sample collection apparatus. Once the dedicated flow controller on the sample canister indicates that sample collection is complete (approximately 10 min), the flow valve is closed.
- Sample Shipment – Once sample collection at all locations is complete, samples are shipped to the analytical laboratory under Chain-of-Custody documentation.
- Sample Analysis – The analytical laboratory uses analytical method USEPA TO-15 to analyze the samples for the project specific constituents of concern (tetrachloroethene, trichloroethene, 1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, vinyl chloride, 1,1,1-trichloroethane, 1,1-dichloroethane and 1,2-dichloroethane) and the quantitative tracer.

This sampling plan was developed to determine if further investigation and/or presumptive mitigation of the potential volatilization to indoor air migration pathway is merited. As such sampling data are validated using level 4 data quality objectives.

Screening Levels for the Volatilization to Indoor Air Migration Pathway

As described in the September 2011 EI Report, screening levels for the volatilization to indoor air migration pathway were developed in accordance with both current regulation and state and federal guidance. See the September 2011 Current Human Exposures Under Control Environmental Indicator Report (September 2011 EI Report) for further details.

Summary of Field Activities

2011 gas investigation activities are summarized below:

- First Quarter 2011
  - The first quarter 2011 soil gas sample event was conducted on March 31, 2011. Samples were collected at 11 of the 16 soil gas sample points (SG-01, SG-03, SG-04, SG-06, SG-07, SG-08, SG-09, SG-10, SG-11, SG-13 and SG-16). Water in the soil gas sample ports prevented sample collection at the remaining soil gas sample locations (SG-02, SG-05, SG-12, SG-14, and SG-15).
  - The sample canister containing the sample collected at sample location SG-01 was damaged in shipment and could not be analyzed. A resample event was conducted at sample location SG-01 on April 13, 2011.
  - Samples were analyzed by Pace Analytical Laboratories located in Minneapolis, Minnesota.
- Second Quarter 2011
  - The second quarter 2011 soil gas sample event was conducted on June 7, 2011 following heavy rain in late May and early June. Samples were collected at 7 of the 16 soil gas sample points (SG-01, SG-04, SG-06, SG-07, SG-11, SG-13 and SG-16). Water in the soil gas sample ports prevented sample collection at the remaining soil gas sample locations (SG-02, SG-03, SG-05, SG-08, SG-09, SG-10, SG-12, SG-14, and SG-15).
  - Given the high percentage of samples with water in the sample point during the June 7, 2011 sample event. A resample event was conducted on June 27, 2011 at soil gas sample locations where water prevented sample collection during the initial second quarter soil gas sample event. Soil gas samples were collected at SG-02, SG-03, SG-05, SG-08. Water in the soil gas sample ports prevented sample collection at the remaining soil gas sample locations (SG-09. SG-10, SG-12, SG-14, and SG-15).
  - Samples were analyzed by Pace Analytical Laboratories located in Minneapolis, Minnesota.
- Third Quarter 2011
  - The third quarter 2011 soil gas sample event was conducted on September 28, 2011. Samples were collected at 13 of the 16 soil gas sample points (SG-01, SG-02, SG-03, SG-04, SG-05, SG-06, SG-07, SG-08, SG-09, SG-10, SG-11, SG-13 and SG-16). Laboratory-recommended in-line water traps were used at sample locations with evidence of water during sample port purging to help ensure that samples could be collected at most locations. Water in the soil gas sample ports prevented sample collection at the remaining soil gas sample locations (SG-12, SG-14, and SG-15).
  - Samples were analyzed by H&P Mobile Geochemistry located in Carlsbad, California.

- Fourth Quarter 2011
  - The fourth quarter 2011 soil gas sample event was conducted on November 21, 2011. Samples were collected at 15 of the 16 soil gas sample points (SG-01, SG-02, SG-03, SG-04, SG-05, SG-06, SG-07, SG-08, SG-09, SG-10, SG-11, SG-12, SG-13, SG-15 and SG-16). Laboratory-recommended in-line water traps were used at sample locations with evidence of water during sample port purging to help ensure that samples could be collected at most locations. Water in the soil gas sample ports prevented sample collection at soil gas sample location SG-14.
  - Samples were analyzed by H&P Mobile Geochemistry located in Carlsbad, California.

Summary of Soil Gas Data

Soil gas data are summarized in Table 1, and soil gas sample locations are shown on Figure 1. Laboratory analytical reports are provided in Attachment 1. Soil gas data were compared to soil gas screening levels calculated as described in the September 2011 EI Report. Concentrations of tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and/or 1,2-dichloroethane exceeded the most conservative residential soil gas screening at one or more locations during 2011. Data from the first and second quarter sampling events were used in development of the September 2011 Environmental Indicators Human Exposures Under Control Report, as those data were available at that time.

On September 28, 2011 the USEPA Integrated Risk Information System (IRIS) database was updated to include inhalation toxicity values for trichloroethene. On January 9, 2012, USEPA requested that groundwater and soil gas screening levels be revised to reflect screening levels calculated using the new trichloroethene toxicity values. TPC has committed to updating Table 1 to include the revised toxicity values by February 1, 2012, and a meeting with USEPA on February 9, 2012. During this meeting, TPC and USEPA will discuss, among other things, off-site vapor intrusion.

Data Quality Assurance

March 2011

TRC collected twelve soil gas samples, including one field duplicate on March 31, 2011. One sample, SG-01, was damaged in shipment and could not be analyzed. The remainder of the samples were analyzed by Pace Analytical Laboratories located in Minneapolis, Minnesota for VOCs by USEPA Method TO-15 following protocols specified in the Quality Assurance Project Plan (QAPP). TRC performed validation of the laboratory data. One potential problem with the data was identified:

- The relative percent difference for trichloroethene between the parent sample (SG-07) and the duplicate sample (DUP-01) was outside quality control limits. A j-flag, indicating that

the sample results are approximate, was assigned to the trichloroethene results for these samples.

The data quality objectives and laboratory completeness goals for the project were met, and the all data are usable. The procedures specified in the methods were implemented, and the data package contained all of the deliverables necessary for validation of the analytical data. The data validation report is included in Attachment 2.

April 2011

TRC collected one soil gas sample on April 13, 2011. This sample was collected to replace the March 2011 sample that was damaged in shipment. The sample was analyzed by Pace Analytical Laboratories located in Minneapolis, Minnesota for VOCs by USEPA Method TO-15 following protocols specified in the QAPP. TRC performed validation of the laboratory data. No problems were identified. The data quality objectives and laboratory completeness goals for the project were met, and the all data are usable. The procedures specified in the methods were implemented, and the data package contained all of the deliverables necessary for validation of the analytical data. The data validation report is included in Attachment 2.

June 2011

TRC collected thirteen soil gas samples, including one field duplicate on June 7, 2011 and June 27, 2011. The samples were analyzed by Pace Analytical Laboratories located in Minneapolis, Minnesota for VOCs by USEPA Method TO-15 following protocols specified in the QAPP. TRC performed validation of the laboratory data. Two potential problems with the data were identified:

- The internal standard area counts for sample DUP-01 were below the lower laboratory quality control limits for tetrachloroethene and trichloroethene. A j-flag, indicating that the sample results are approximate, was assigned to the tetrachloroethene and trichloroethene results for these samples.
- The relative percent differences for trichloroethene and 1,1,1-trichloroethane between the parent sample (SG-07) and the duplicate sample (DUP-01) were outside quality control limits. A j-flag, indicating that the sample results are approximate, was assigned to the trichloroethene and 1,1,1-trichloroethane results for these samples.

The data quality objectives and laboratory completeness goals for the project were met, and the all data are usable. The procedures specified in the methods were implemented, and the data package contained all of the deliverables necessary for validation of the analytical data. The data validation reports are included in Attachment 2.

September 2011

TRC collected fourteen soil gas samples, including one field duplicate on September 28, 2011. The samples were analyzed by H&P Mobile Geochemistry located in Carlsbad, California for VOCs by USEPA Method TO-15 following protocols specified in the QAPP. TRC performed validation of the laboratory data. No problems were identified. The data quality objectives and laboratory completeness goals for the project were met, and the all data are usable. The procedures specified in the methods were implemented, and the data package contained all of the deliverables necessary for validation of the analytical data. The data validation report is included in Attachment 2.

November 2011

TRC collected sixteen soil gas samples, including one field duplicate on November 21, 2011. The samples were analyzed by H&P Mobile Geochemistry located in Carlsbad, California for VOCs by USEPA Method TO-15 following protocols specified in the QAPP. TRC performed validation of the laboratory data. One potential problem with the data was identified:

- The relative percent difference for compounds detected in both the parent sample (SG-07) and the duplicate sample (DUP-01) were within quality control limits. However 1,1-dichloroethane was detected in the duplicate sample, but not in the parent sample. A j-flag, indicating that the sample results are approximate, was assigned to the 1,1-dichloroethane result for the duplicate sample.

The data quality objectives and laboratory completeness goals for the project were met, and the all data are usable. The procedures specified in the methods were implemented, and the data package contained all of the deliverables necessary for validation of the analytical data. The data validation report is included in Attachment 2.

Table

Table 1
Summary of Chlorinated Volatile Organic Compounds in Off-Site Soil Gas
Tecumseh Products Company
Tecumseh, Michigan

Analyte		1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl Chloride
Residential SGSLs where α = 0.1 (1)		38	2.4	525	93	158	6.2	9,360	23	11
Residential SGSLs where α = 0.01 (2)		380	24	5,250	930	1,580	62	93,600	230	110
Site Specific Residential SGSLs where α = 0.003 (3)		1,300	78	17,000	3,000	5,200	210	310,000	770	360
Site Specific Non-Residential SGSLs where α = 0.003 (3)		4,300	260	24,000	4,300	7,300	690	440,000	2,600	1,200
Units		ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
SG-01 (8-8.5')	4/5/2010	**5.7**	<2.3	**4.4**	**17.0**	<4.4	<2.3	**279**	**396**	<2.3
	5/20/2010 (4)	**52.4**	<4.4	**21.6**	**184**	<4.4	**52.1**	**1,690**	**2,800**	<4.4
	10/21/2010	**74.7**	<16.8	<16.8	**272**	**25.8**	**222**	**8,300**	**32,100**	<16.8
	12/9/2010	<709	<709	<709	<709	<709	<709	**6,440**	**17,800**	<709
	4/13/2011	**32.8**	**166**	**21.0**	**110**	**7.79**	**84.6**	**2,630**	**10,500**	<6.7
	6/27/2011	<180	<90	<180	<180	<180	**98.0**	**1,420**	**7,340**	<90
	9/28/2011	<100	<100	<100	**220**	<200	**150**	**4,300**	**19,000**	<100
	11/21/2011	<5.0	<5.0	**7.4**	**39**	<10	**24**	**1,300**	**7,900**	<5.0
SG-01 (DUP-01)	4/5/2010	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2
	5/20/2010 (4)	**63.2**	<4.4	**31.0**	**245**	**22.6**	**256**	**2,120**	**3,770**	<4.4
	9/28/2011	<100	<100	<100	**270**	<200	**200**	**5,800**	**28,000**	<100
	11/21/2011	**22** (8)	<5.0	**9.9**	**48**	<10	**25**	**1,700**	**8,500**	<5.0
SG-02 (5.5-6')	4/5/2010	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**19.6**	<4.0	<4.0
	10/21/2010	<12.5	<12.5	<12.5	<12.5	<12.5	**532**	**328**	**1,610**	<12.5
	12/9/2010 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/31/2011 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/27/2011	**8.5**	<3.5	<7.0	**28.0**	**8.6**	**1,240**	**943**	**3,970**	<3.5
	9/28/2011	<5.0	<5.0	<5.0	**6.1**	<10	**1,100**	**230**	**550**	<5.0
	11/21/2011	**2.3**	<1.0	<1.0	**2.6**	**2.5**	**400**	**120**	**310**	**1.1**
SG-03 (5-5.5')	4/5/2010	<2.6	<2.6	<2.6	<2.6	<5.1	<2.6	<2.6	<2.6	<2.6
	10/21/2010	**91.0**	<15.7	<15.7	**193**	**90.3**	<15.7	<15.7	<15.7	<15.7
	12/9/2010	**47.7**	<11.9	<11.9	**98.0**	**48.5**	<11.9	<11.9	<11.9	<11.9
	3/31/2011	<0.56	<0.56	<0.57	<0.57	<0.57	<0.57	<0.56	<0.57	<0.58
	6/27/2011	<0.36	<0.18	<0.37	<0.37	<0.37	**6.8**	**4.8**	**22.3**	<0.18
	9/28/2011	**3.0**	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0
	11/21/2011	**3.5**	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	**1.8**

Notes:

1) Soil gas screening levels (SGSLs) calculated using an attenuation factor of 0.1 as specified in a comment letter from USEPA dated August 24, 2010.
2) SGSLs calculated using an attenuation factor of 0.01, as recommended in the Draft USEPA 2002 OSWER Vapor Intrusion Guidance.
3) Site Specific SGSLs calculated used an attenuation factor (0.003). This attenuation factor was determined using the USEPA Johnson and Ettinger Model calculation spreadsheet, Version 3.1. The site specific model used the spreadsheet default parameters conservatively assuming a sand substrate, a depth to foundation of 200 cm (basement), and a sample depth of 200 cm.
4) Elevated concentrations of 2-propanol (tracer) detected; DUP-01 results from 5/20/10 reflect true soil gas concentrations. Tracer concentration from SG-01 and analytical data from DUP-01 suggests that sample was diluted with approximately 30-percent ambient air.
5) Water in sample point prevented sample collection.
6) Analyte was evaluated for detection to the method detection limit.
7) Elevated concentrations of 2-propanol (tracer) detected. Analytical data for other analytes are presumed to be invalid (--).
8) Quality control results are outside the established control limits, the result is approximate.

Bold font denotes concentrations detected above laboratory reporting limits.

Denotes concentrations above one or more soil gas screening level

ppbv - parts per billion by volume
NC - No Criteria
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Tecumseh, Michigan

Analyte		1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl Chloride
Residential SGSLs where α = 0.1 (1)		38	2.4	525	93	158	6.2	9,360	23	11
Residential SGSLs where α = 0.01 (2)		380	24	5,250	930	1,580	62	93,600	230	110
Site Specific Residential SGSLs where α = 0.003 (3)		1,300	78	17,000	3,000	5,200	210	310,000	770	360
Site Specific Non-Residential SGSLs where α = 0.003 (3)		4,300	260	24,000	4,300	7,300	690	440,000	2,600	1,200
Units		ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
SG-04 (5-5.5')	4/5/2010	<2.6	<1.3 (6)	<2.6	<2.6	<4.9	<2.6	<2.6	<2.6	<2.5
	9/23/2010	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
	12/9/2010	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78	<0.78
	3/31/2011	<1.6	<1.6	<1.6	<1.6	<1.6	**2.0**	<1.6	<1.6	<1.6
	6/7/2011	<1.0	<0.53	<1.1	<1.1	<1.1	<0.52	<1.0	<0.53	<0.54
	9/28/2011	<1.0	<1.0	<1.0	<1.0	<2.0	**1.7**	<1.0	<1.0	<1.0
	11/21/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	**2.4**
SG-05 (7.5-8')	4/5/2010	<2.6	<2.6	<2.6	<2.6	<4.9	<2.6	**28.7**	**26.6**	<2.5
	10/21/2010	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	**708**	**1,320**	<16.8
	12/9/2010	<15.7	<15.7	<15.7	<15.7	<15.7	<15.7	**357**	**538**	<15.7
	3/31/2011 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/27/2011	<0.34	<0.17	<0.35	<0.35	<0.35	<0.17	**2.2**	**0.20**	<0.17
	9/28/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	**2.1**	**1.1**	<1.0
	11/21/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
SG-05 (DUP-01)	10/21/2010	<16.8	<16.8	<16.8	<16.8	<16.8	<16.8	**581**	**1,020**	<16.8
	12/9/2010	<211	<211	<211	<211	<211	<211	**772**	**849**	<211
SG-06 (8-8.5')	4/5/2010	<2.6	<2.6	<2.6	<2.6	<4.9	<2.6	<2.6	**7.2**	<2.5
	5/20/2010	<4.6	<4.6	<4.6	<4.6	<4.6	**9.5**	**6.0**	**104**	<4.6
	9/21/2010	<29.2	<29.2	<29.2	<29.2	<29.2	**62.2**	<29.2	**263**	<29.2
	12/9/2010	<3.9	<3.9	<3.9	**6.1**	<3.9	**4.3**	**7.4**	**64.9**	<3.9
	3/31/2011	**0.73**	<0.17	<0.35	<0.35	**1.3**	<0.17	**1.7**	**14.1**	<0.17
	6/7/2011	**0.88**	<0.18	<0.37	**5.6**	**2.5**	**7.5**	**2.5**	**50.2**	<0.18
	9/28/2011	**3.6**	<2.0	<2.0	**35**	**6.4**	**16**	**7.7**	**150**	<2.0
	11/21/2011	**2.2**	<1.0	<1.0	**9.2**	**2.6**	<1.0	**5.1**	**29**	**1.1**

Notes:

1) Soil gas screening levels (SGSLs) calculated using an attenuation factor of 0.1 as specified in a comment letter from USEPA dated August 24, 2010.
2) SGSLs calculated using an attenuation factor of 0.01, as recommended in the Draft USEPA 2002 OSWER Vapor Intrusion Guidance.
3) Site Specific SGSLs calculated used an attenuation factor (0.003). This attenuation factor was determined using the USEPA Johnson and Ettinger Model calculation spreadsheet, Version 3.1. The site specific model used the spreadsheet default parameters conservatively assuming a sand substrate, a depth to foundation of 200 cm (basement), and a sample depth of 200 cm.
4) Elevated concentrations of 2-propanol (tracer) detected; DUP-01 results from 5/20/10 reflect true soil gas concentrations. Tracer concentration from SG-01 and analytical data from DUP-01 suggests that sample was diluted with approximately 30-percent ambient air.
5) Water in sample point prevented sample collection.
6) Analyte was evaluated for detection to the method detection limit.
7) Elevated concentrations of 2-propanol (tracer) detected. Analytical data for other analytes are presumed to be invalid (--).
8) Quality control results are outside the established control limits, the result is approximate.

Bold font denotes concentrations detected above laboratory reporting limits.

Denotes concentrations above one or more soil gas screening level

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Tecumseh Products Company
Tecumseh, Michigan

Analyte		1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl Chloride
Residential SGSLs where α = 0.1 (1)		38	2.4	525	93	158	6.2	9,360	23	11
Residential SGSLs where α = 0.01 (2)		380	24	5,250	930	1,580	62	93,600	230	110
Site Specific Residential SGSLs where α = 0.003 (3)		1,300	78	17,000	3,000	5,200	210	310,000	770	360
Site Specific Non-Residential SGSLs where α = 0.003 (3)		4,300	260	24,000	4,300	7,300	690	440,000	2,600	1,200
Units		ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
SG-07 (8-8.5')	4/5/2010	<75.2	<75.2	<75.2	<75.2	<75.2	<75.2	<75.2	<75.2	<75.2
	5/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0	**13.8**	**6.8**	**145**	<5.0
	9/21/2010	<69.6	<69.6	<69.6	<69.6	<69.6	**140**	<69.6	**403**	<69.6
	12/9/2010	<22.2	<22.2	<22.2	<22.2	<22.2	**24.4**	<22.2	**139**	<22.2
	3/31/2011	<0.34	<0.17	<0.35	<0.35	<0.35	**5.9**	**4.3**	**47.2** (8)	<0.17
	6/7/2011	<0.36	<0.18	<0.37	<0.37	<0.37	**23.6**	**4.4** (8)	**171** (8)	<0.18
	9/28/2011	<1.0	<1.0	<1.0	<1.0	<2.0	**76**	**16**	**260**	<1.0
	11/21/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	**2.7**	**3.1**	**1.5**
SG-07 (DUP-01)	3/31/2011	<0.56	<0.56	<0.57	<0.57	<0.57	**7.9**	**5.0**	**90.6** (8)	<0.58
	6/7/2011	<0.36	<0.18	<0.37	<0.37	<0.37	**28.4** (8)	**9.5** (8)	**97.2** (8)	<0.18
SG-08 (6.5-7')	4/5/2010	<2.6	<1.3 (6)	<2.6	<2.6	<5.1	<2.6	<2.6	<2.6	<2.6
	9/23/2010	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**4.5**	**3.5**	<2.0
	12/9/2010 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/31/2011	<0.34	<0.17	<0.35	<0.35	<0.35	**0.29**	**3.4**	<0.17	<0.17
	6/27/2011	<0.34	<0.17	<0.35	<0.35	<0.35	<0.17	**0.97**	<0.18	<0.17
	9/28/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	**1.9**	<1.0	<1.0
	11/21/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	**6.9**	**1.3**	**1.0**
SG-09 (5.5-6')	4/5/2010 (7)	--	--	--	--	--	--	--	--	--
	5/20/2010	**10.6**	<4.4	<4.4	<4.4	<4.4	<4.4	**123**	**176**	<4.4
	9/23/2010	<23.4	<23.4	<23.4	<23.4	<23.4	<23.4	**142**	**436**	<23.4
	12/9/2010	<13.2	<13.2	<13.2	<13.2	<13.2	<13.2	**61.8**	**51.7**	<13.2
	3/31/2011	**4.3**	<0.17	<0.35	**1.3**	<0.35	<0.17	**52.5**	**13.9**	<0.17
	6/27/2011	**5.4**	<0.17	<0.35	**1.4**	<0.35	<0.17	**52.8**	**45.8**	<0.17
	9/28/2011	**1.7**	<1.0	<1.0	<1.0	<2.0	<1.0	**13**	**7.9**	<1.0
	11/21/2011	**3.8**	<1.0	<1.0	<1.0	<2.0	<1.0	**32**	**9.1**	<1.0

Notes:
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4) Elevated concentrations of 2-propanol (tracer) detected; DUP-01 results from 5/20/10 reflect true soil gas concentrations. Tracer concentration from SG-01 and analytical data from DUP-01 suggests that sample was diluted with approximately 30-percent ambient air.
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Units		ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
SG-10 (5-5.5')	4/5/2010	<40.3 (6)	<40.3 (6)	<80.6	<80.6	<80.6	<40.3 (6)	<80.6	<40.3 (6)	<40.3 (6)
	9/21/2010	<4.4	<2.2 (6)	<4.4	<4.4	<4.4	<4.4	<4.4	**11.5**	<4.4
	12/9/2010	<8.7	<4.4 (6)	<8.7	<8.7	<8.7	<4.4 (6)	<8.7	<8.7	<8.7
	3/31/2011	<0.61	<0.61	<0.62	<0.62	<0.62	<0.61	<0.59	<0.60	<0.62
	6/27/2011 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/28/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	**1.4**	**19**	<1.0
	11/21/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	**19**	**56**	<1.0
SG-11 (7.5-6')	4/5/2010	<2.8	<1.4 (6)	<2.8	<2.8	<5.4	<2.8	<2.8	<2.8	<2.8
	9/23/2010	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
	12/9/2010	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84	<0.84
	3/31/2011	<0.56	<0.56	<0.57	<0.57	<0.57	<0.57	<0.56	<0.57	<0.58
	6/7/2011	<0.39	<0.19	<0.40	<0.40	<0.40	**0.89**	**0.54**	**1.2**	<0.19
	9/28/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
	11/21/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	**6.8**	**18**	<1.0
SG-12 (5-5.5')	4/5/2010 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/20/2020 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/21/2010 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/9/2010	<2.5	<1.3 (6)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
	3/31/2011 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/27/2011 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/28/2011 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/21/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0

Notes:
1) Soil gas screening levels (SGSLs) calculated using an attenuation factor of 0.1 as specified in a comment letter from USEPA dated August 24, 2010.
2) SGSLs calculated using an attenuation factor of 0.01, as recommended in the Draft USEPA 2002 OSWER Vapor Intrusion Guidance.
3) Site Specific SGSLs calculated used an attenuation factor (0.003). This attenuation factor was determined using the USEPA Johnson and Ettinger Model calculation spreadsheet, Version 3.1. The site specific model used the spreadsheet default parameters conservatively assuming a sand substrate, a depth to foundation of 200 cm (basement), and a sample depth of 200 cm.
4) Elevated concentrations of 2-propanol (tracer) detected; DUP-01 results from 5/20/10 reflect true soil gas concentrations. Tracer concentration from SG-01 and analytical data from DUP-01 suggests that sample was diluted with approximately 30-percent ambient air.
5) Water in sample point prevented sample collection.
6) Analyte was evaluated for detection to the method detection limit.
7) Elevated concentrations of 2-propanol (tracer) detected. Analytical data for other analytes are presumed to be invalid (--).
8) Quality control results are outside the established control limits, the result is approximate.

Bold font denotes concentrations detected above laboratory reporting limits.

Denotes concentrations above one or more soil gas screening level

ppbv - parts per billion by volume
NC - No Criteria
NS - No Sample
NA - Not Applicable

Table 1
Summary of Chlorinated Volatile Organic Compounds in Off-Site Soil Gas
Tecumseh Products Company
Tecumseh, Michigan

Analyte		1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl Chloride
Residential SGSLs where α = 0.1 (1)		38	2.4	525	93	158	6.2	9,360	23	11
Residential SGSLs where α = 0.01 (2)		380	24	5,250	930	1,580	62	93,600	230	110
Site Specific Residential SGSLs where α = 0.003 (3)		1,300	78	17,000	3,000	5,200	210	310,000	770	360
Site Specific Non-Residential SGSLs where α = 0.003 (3)		4,300	260	24,000	4,300	7,300	690	440,000	2,600	1,200
Units		ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
SG-13 (5.5-6')	4/5/2010	<2.5	<1.3 (6)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
	5/20/2010	<4.5	<2.2 (6)	<4.5	<4.5	<4.5	<4.5	<4.5	**6.1**	<4.5
	9/23/2010	<1.5	<1.5	<1.5	**2.5**	**5.6**	<1.5	<1.5	<1.5	<1.5
	12/9/2010	<1.6	<1.6	<1.6	<1.6	**2.9**	<1.6	<1.6	<1.6	<1.6
	3/31/2011	<0.56	<0.56	<0.57	<0.57	<0.57	<0.57	<0.56	<0.57	<0.58
	6/7/2011	**1.5**	<0.19	<0.40	**4.8**	**10.8**	**0.77**	**0.81**	**1.6**	<0.19
	9/28/2011	**1.1**	<1.0	<1.0	**6.2**	**10**	<1.0	<1.0	<1.0	<1.0
	11/21/2011	**1.9**	<1.0	<1.0	**2.0**	**4.0**	<1.0	<1.0	<1.0	<1.0
SG-14 (6.5-7') (5)	4/5/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/20/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/21/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/9/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/31/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/27/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/28/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/21/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS
SG-15 (11-11.5')	9/23/2010 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/15/2010 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/31/2011 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/27/2011 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/28/2011 (5)	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/21/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	**10**	**30**	<1.0
SG-16 (7.5-8')	9/23/2010	<2.5	<2.5	<2.5	<2.5	<2.5	**2.6**	<2.5	<2.5	<2.5
	12/9/2010	<15.7	<7.8 (6)	<15.7	<15.7	<15.7	<7.8 (6)	<15.7	<15.7	<7.8 (6)
	3/31/2011	<0.61	<0.61	<0.60	<0.60	<0.60	<0.61	<0.59	<0.60	<0.62
	6/7/2011	<1.1	<0.53	<1.1	<1.1	<1.1	<0.54	<1.1	**0.62**	<0.54
	9/28/2011	<1.0	<1.0	<1.0	**3.3**	<2.0	**7.4**	<1.0	**28**	<1.0
	11/21/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	**1.1**

Notes:

1) Soil gas screening levels (SGSLs) calculated using an attenuation factor of 0.1 as specified in a comment letter from USEPA dated August 24, 2010.
2) SGSLs calculated using an attenuation factor of 0.01, as recommended in the Draft USEPA 2002 OSWER Vapor Intrusion Guidance.
3) Site Specific SGSLs calculated used an attenuation factor (0.003). This attenuation factor was determined using the USEPA Johnson and Ettinger Model calculation spreadsheet, Version 3.1. The site specific model used the spreadsheet default parameters conservatively assuming a sand substrate, a depth to foundation of 200 cm (basement), and a sample depth of 200 cm.
4) Elevated concentrations of 2-propanol (tracer) detected; DUP-01 results from 5/20/10 reflect true soil gas concentrations. Tracer concentration from SG-01 and analytical data from DUP-01 suggests that sample was diluted with approximately 30-percent ambient air.
5) Water in sample point prevented sample collection.
6) Analyte was evaluated for detection to the method detection limit.
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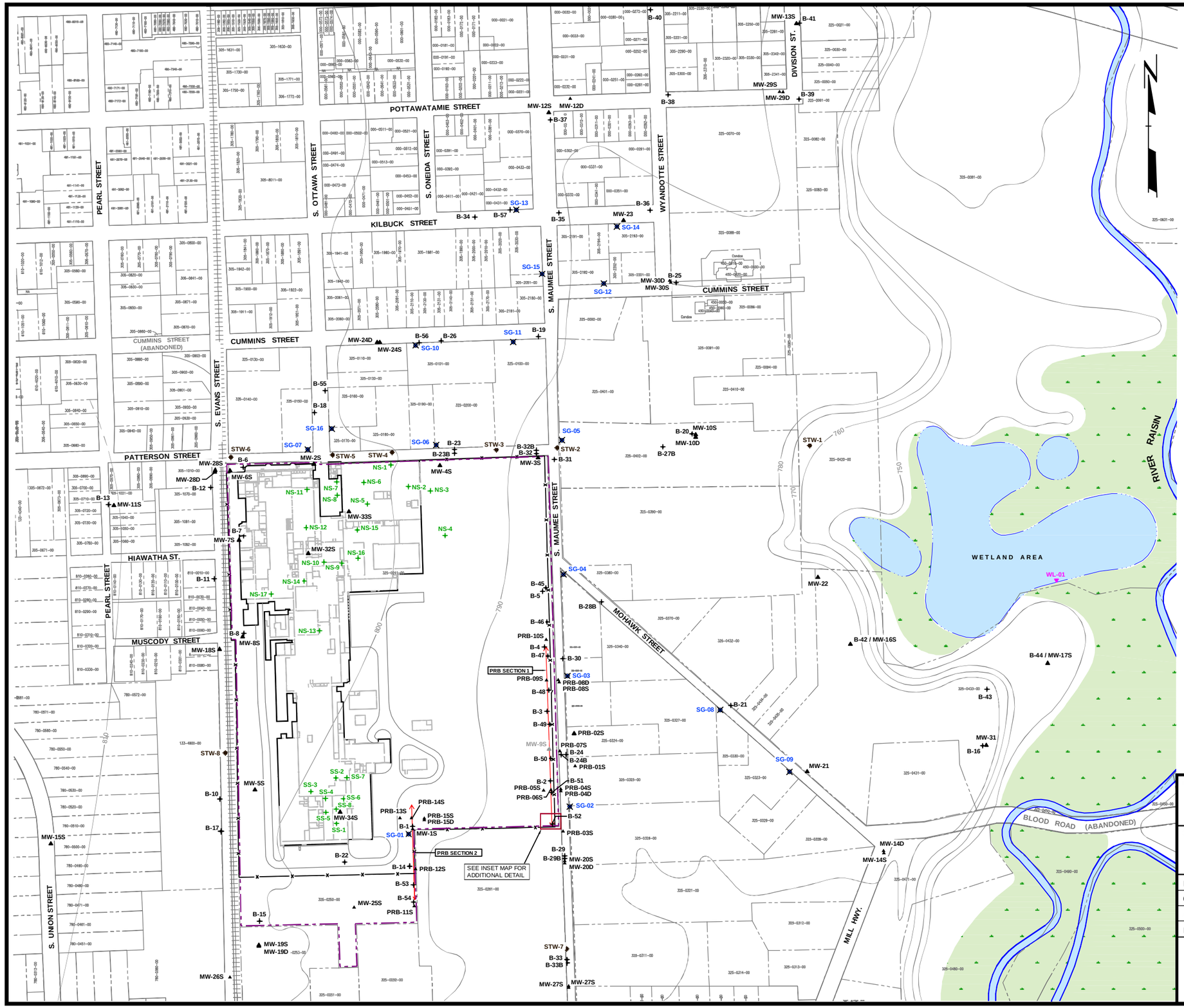
8) Quality control results are outside the established control limits, the result is approximate.

Bold font denotes concentrations detected above laboratory reporting limits.

Denotes concentrations above one or more soil gas screening level

ppbv - parts per billion by volume
NC - No Criteria
NS - No Sample
NA - Not Applicable

Figure

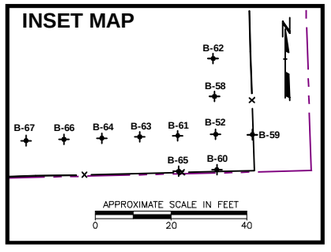


LEGEND

- FORMER TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- 750 — APPROXIMATE GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP
- B-2 — PERIMETER / OFF-SITE INVESTIGATION SOIL BORING LOCATION AND NUMBER
- MW-4S — MONITORING WELL LOCATION AND NUMBER
- MW-9S — DECOMMISSIONED MONITORING WELL LOCATION AND NUMBER
- SS-2 — SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- SG-02 — SOIL GAS SAMPLE LOCATION AND NUMBER
- STW-2 — STORM WATER SEWER SAMPLE LOCATION AND NUMBE
- WL-01 — WETLAND SURFACE WATER SAMPLE LOCATION
- FLOODPLAIN / WOODED WETLAND AREA
- PRB LOCATION
- X — FENCE LINE

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
2. GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S TOPOGRAPHIC QUADRANGLE MAP AND GROUND SURVEY DATA.



APPROXIMATE HORIZONTAL SCALE

0 400' 800'

PROJECT:

FORMER TECUMSEH PRODUCTS SITE
TECUMSEH, MICHIGAN

SHEET TITLE:

SURFACE TOPOGRAPHY AND SAMPLE LOCATIONS

DRAWN BY: SJL/DGS	SCALE:	PROJ. NO.	004304.02
CHECKED BY: SEM	AS INDICATED	FILE NO.	004304.02.01.dwg
APPROVED BY: GC	DATE PRINTED:	FIGURE 1	
DATE: DECEMBER 2011			

TRC
1540 Eisenhower Place
Ann Arbor, MI 48108
Phone: 734.971.7080
Fax: 734.971.9022

PLOT DATA
Drawing Name: J:_TRC\Tecumseh Products\TECUMSEH\004304\02\2011 4Q RPT\004304.02.01.dwg
Operator Name: STEHLE, DIANAH
Drawing Plot Scale: 0.386863
Dwg Size: 2.58 Mb
Plot Date: January 6, 2012
Plot Time: 3:22 PM
Attached Xref's: bm033109
Attached Images:
Layout: FIG01 Surf Topo & Sample Locs

Attachment 1
2011 Analytical Data

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

April 16, 2011

Ms. Stacy Metz
RMT, INC
3754 Ranchero Dr.
Ann Arbor, MI 48108

RE: Project: 02751-13 TPC Soil Gas
Pace Project No.: 10153334

Dear Ms. Metz:
Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 02751-13 TPC Soil Gas
Pace Project No.: 10153334

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 02751-13 TPC Soil Gas
Pace Project No.: 10153334

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10153334001	**SG-01**	Air	03/31/11 09:39	04/01/11 10:05
10153334002	**SG-03**	Air	03/31/11 10:34	04/01/11 10:05
10153334003	**SG-04**	Air	03/31/11 11:09	04/01/11 10:05
10153334004	**SG-08**	Air	03/31/11 11:43	04/01/11 10:05
10153334005	**SG-09**	Air	03/31/11 12:17	04/01/11 10:05
10153334006	**SG-06**	Air	03/31/11 12:44	04/01/11 10:05
10153334007	**SG-07**	Air	03/31/11 13:21	04/01/11 10:05
10153334008	**SG-16**	Air	03/31/11 14:07	04/01/11 10:05
10153334009	**SG-10**	Air	03/31/11 15:18	04/01/11 10:05
10153334010	**SG-11**	Air	03/31/11 15:46	04/01/11 10:05
10153334011	**SG-13**	Air	03/31/11 16:42	04/01/11 10:05
10153334012	**DUP-01**	Air	03/31/11 00:00	04/01/11 10:05

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SAMPLE ANALYTE COUNT

Project: 02751-13 TPC Soil Gas
Pace Project No.: 10153334

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10153334002	**SG-03**	TO-15	MH3	9
10153334003	**SG-04**	TO-15	MH3	9
10153334004	**SG-08**	TO-15	CJR	9
10153334005	**SG-09**	TO-15	CJR	9
10153334006	**SG-06**	TO-15	CJR	9
10153334007	**SG-07**	TO-15	CJR	9
10153334008	**SG-16**	TO-15	MH3	9
10153334009	**SG-10**	TO-15	MH3	9
10153334010	**SG-11**	TO-15	MH3	9
10153334011	**SG-13**	TO-15	MH3	9
10153334012	**DUP-01**	TO-15	MH3	9

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PROJECT NARRATIVE

Project: 02751-13 TPC Soil Gas
Pace Project No.: 10153334

Method: **TO-15**
Description: TO15 MSV AIR
Client: RMT, INC
Date: April 16, 2011

General Information:
11 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

QC Batch: AIR/12084

IQ: The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

- SG-04 (Lab ID: 10153334003)

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

C0: Results confirmed by second analysis.

- SG-04 (Lab ID: 10153334003)

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 02751-13 TPC Soil Gas
Pace Project No.: 10153334

Sample: SG-03 **Lab ID: 10153334002** Collected: 03/31/11 10:34 Received: 04/01/11 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	2.3	2.82		04/12/11 18:44	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.3	2.82		04/12/11 18:44	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.3	2.82		04/12/11 18:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.3	2.82		04/12/11 18:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.3	2.82		04/12/11 18:44	156-60-5	
Tetrachloroethene	ND	ug/m3	3.9	2.82		04/12/11 18:44	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	3.1	2.82		04/12/11 18:44	71-55-6	
Trichloroethene	ND	ug/m3	3.1	2.82		04/12/11 18:44	79-01-6	
Vinyl chloride	ND	ug/m3	1.5	2.82		04/12/11 18:44	75-01-4	

Sample: SG-04 **Lab ID: 10153334003** Collected: 03/31/11 11:09 Received: 04/01/11 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	6.5	7.97		04/12/11 19:16	75-34-3	
1,2-Dichloroethane	ND	ug/m3	6.5	7.97		04/12/11 19:16	107-06-2	
1,1-Dichloroethene	ND	ug/m3	6.5	7.97		04/12/11 19:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	6.5	7.97		04/12/11 19:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	6.5	7.97		04/12/11 19:16	156-60-5	
Tetrachloroethene	**13.7**	ug/m3	11.2	7.97		04/12/11 19:16	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	8.8	7.97		04/12/11 19:16	71-55-6	
Trichloroethene	ND	ug/m3	8.8	7.97		04/12/11 19:16	79-01-6	
Vinyl chloride	ND	ug/m3	4.1	7.97		04/12/11 19:16	75-01-4	

Sample: SG-08 **Lab ID: 10153334004** Collected: 03/31/11 11:43 Received: 04/01/11 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		04/11/11 21:15	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.69	1.68		04/11/11 21:15	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		04/11/11 21:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		04/11/11 21:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		04/11/11 21:15	156-60-5	
Tetrachloroethene	**2.0**	ug/m3	1.2	1.68		04/11/11 21:15	127-18-4	
1,1,1-Trichloroethane	**19.1**	ug/m3	1.8	1.68		04/11/11 21:15	71-55-6	
Trichloroethene	ND	ug/m3	0.92	1.68		04/11/11 21:15	79-01-6	
Vinyl chloride	ND	ug/m3	0.44	1.68		04/11/11 21:15	75-01-4	

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ANALYTICAL RESULTS

Project: 02751-13 TPC Soil Gas
Pace Project No.: 10153334

Sample: SG-09 **Lab ID: 10153334005** Collected: 03/31/11 12:17 Received: 04/01/11 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	**17.8**	ug/m3	1.4	1.74		04/11/11 21:44	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.71	1.74		04/11/11 21:44	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		04/11/11 21:44	75-35-4	
cis-1,2-Dichloroethene	**5.4**	ug/m3	1.4	1.74		04/11/11 21:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		04/11/11 21:44	156-60-5	
Tetrachloroethene	ND	ug/m3	1.2	1.74		04/11/11 21:44	127-18-4	
1,1,1-Trichloroethane	**291**	ug/m3	1.9	1.74		04/11/11 21:44	71-55-6	
Trichloroethene	**75.9**	ug/m3	16.1	29.23		04/13/11 05:10	79-01-6	
Vinyl chloride	ND	ug/m3	0.45	1.74		04/11/11 21:44	75-01-4	

Sample: SG-06 **Lab ID: 10153334006** Collected: 03/31/11 12:44 Received: 04/01/11 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	**3.0**	ug/m3	1.4	1.68		04/11/11 22:13	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.69	1.68		04/11/11 22:13	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		04/11/11 22:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		04/11/11 22:13	156-59-2	
trans-1,2-Dichloroethene	**5.2**	ug/m3	1.4	1.68		04/11/11 22:13	156-60-5	
Tetrachloroethene	ND	ug/m3	1.2	1.68		04/11/11 22:13	127-18-4	
1,1,1-Trichloroethane	**9.2**	ug/m3	1.8	1.68		04/11/11 22:13	71-55-6	
Trichloroethene	**77.0**	ug/m3	0.92	1.68		04/11/11 22:13	79-01-6	
Vinyl chloride	ND	ug/m3	0.44	1.68		04/11/11 22:13	75-01-4	

Sample: SG-07 **Lab ID: 10153334007** Collected: 03/31/11 13:21 Received: 04/01/11 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		04/11/11 22:42	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.69	1.68		04/11/11 22:42	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		04/11/11 22:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		04/11/11 22:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		04/11/11 22:42	156-60-5	
Tetrachloroethene	**40.6**	ug/m3	1.2	1.68		04/11/11 22:42	127-18-4	
1,1,1-Trichloroethane	**23.8**	ug/m3	1.8	1.68		04/11/11 22:42	71-55-6	
Trichloroethene	**258**	ug/m3	15.5	28.22		04/13/11 05:39	79-01-6	
Vinyl chloride	ND	ug/m3	0.44	1.68		04/11/11 22:42	75-01-4	

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ANALYTICAL RESULTS

Project: 02751-13 TPC Soil Gas
Pace Project No.: 10153334

Sample: SG-16 **Lab ID: 10153334008** Collected: 03/31/11 14:07 Received: 04/01/11 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	2.5	3.02		04/12/11 19:47	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.5	3.02		04/12/11 19:47	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.4	3.02		04/12/11 19:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.4	3.02		04/12/11 19:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.4	3.02		04/12/11 19:47	156-60-5	
Tetrachloroethene	ND	ug/m3	4.2	3.02		04/12/11 19:47	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	3.3	3.02		04/12/11 19:47	71-55-6	
Trichloroethene	ND	ug/m3	3.3	3.02		04/12/11 19:47	79-01-6	
Vinyl chloride	ND	ug/m3	1.6	3.02		04/12/11 19:47	75-01-4	

Sample: SG-10 **Lab ID: 10153334009** Collected: 03/31/11 15:18 Received: 04/01/11 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	2.5	3.03		04/12/11 20:19	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.5	3.03		04/12/11 20:19	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.5	3.03		04/12/11 20:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.5	3.03		04/12/11 20:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.5	3.03		04/12/11 20:19	156-60-5	
Tetrachloroethene	ND	ug/m3	4.2	3.03		04/12/11 20:19	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	3.3	3.03		04/12/11 20:19	71-55-6	
Trichloroethene	ND	ug/m3	3.3	3.03		04/12/11 20:19	79-01-6	
Vinyl chloride	ND	ug/m3	1.6	3.03		04/12/11 20:19	75-01-4	

Sample: SG-11 **Lab ID: 10153334010** Collected: 03/31/11 15:46 Received: 04/01/11 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	2.3	2.82		04/12/11 20:51	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.3	2.82		04/12/11 20:51	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.3	2.82		04/12/11 20:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.3	2.82		04/12/11 20:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.3	2.82		04/12/11 20:51	156-60-5	
Tetrachloroethene	ND	ug/m3	3.9	2.82		04/12/11 20:51	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	3.1	2.82		04/12/11 20:51	71-55-6	
Trichloroethene	ND	ug/m3	3.1	2.82		04/12/11 20:51	79-01-6	
Vinyl chloride	ND	ug/m3	1.5	2.82		04/12/11 20:51	75-01-4	

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ANALYTICAL RESULTS

Project: 02751-13 TPC Soil Gas
Pace Project No.: 10153334

Sample: SG-13 **Lab ID: 10153334011** Collected: 03/31/11 16:42 Received: 04/01/11 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	2.3	2.82		04/12/11 21:22	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.3	2.82		04/12/11 21:22	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.3	2.82		04/12/11 21:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.3	2.82		04/12/11 21:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.3	2.82		04/12/11 21:22	156-60-5	
Tetrachloroethene	ND	ug/m3	3.9	2.82		04/12/11 21:22	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	3.1	2.82		04/12/11 21:22	71-55-6	
Trichloroethene	ND	ug/m3	3.1	2.82		04/12/11 21:22	79-01-6	
Vinyl chloride	ND	ug/m3	1.5	2.82		04/12/11 21:22	75-01-4	

Sample: DUP-01 **Lab ID: 10153334012** Collected: 03/31/11 00:00 Received: 04/01/11 10:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	2.3	2.82		04/12/11 21:54	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.3	2.82		04/12/11 21:54	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.3	2.82		04/12/11 21:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.3	2.82		04/12/11 21:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.3	2.82		04/12/11 21:54	156-60-5	
Tetrachloroethene	**54.1**	ug/m3	3.9	2.82		04/12/11 21:54	127-18-4	
1,1,1-Trichloroethane	**27.8**	ug/m3	3.1	2.82		04/12/11 21:54	71-55-6	
Trichloroethene	**495**	ug/m3	31.0	28.22		04/13/11 17:24	79-01-6	
Vinyl chloride	ND	ug/m3	1.5	2.82		04/12/11 21:54	75-01-4	

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QUALITY CONTROL DATA

Project: 02751-13 TPC Soil Gas
Pace Project No.: 10153334

QC Batch: AIR/12062 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10153334004, 10153334005, 10153334006, 10153334007

METHOD BLANK: 955711 Matrix: Air
Associated Lab Samples: 10153334004, 10153334005, 10153334006, 10153334007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	04/11/11 13:26	
1,1-Dichloroethane	ug/m3	ND	0.82	04/11/11 13:26	
1,1-Dichloroethene	ug/m3	ND	0.81	04/11/11 13:26	
1,2-Dichloroethane	ug/m3	ND	0.41	04/11/11 13:26	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	04/11/11 13:26	
Tetrachloroethene	ug/m3	ND	0.69	04/11/11 13:26	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	04/11/11 13:26	
Trichloroethene	ug/m3	ND	0.55	04/11/11 13:26	
Vinyl chloride	ug/m3	ND	0.26	04/11/11 13:26	

LABORATORY CONTROL SAMPLE: 955712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	58.8	106	66-133	
1,1-Dichloroethane	ug/m3	41.2	42.7	104	65-131	
1,1-Dichloroethene	ug/m3	40.3	42.8	106	65-132	
1,2-Dichloroethane	ug/m3	41.2	43.7	106	66-132	
cis-1,2-Dichloroethene	ug/m3	40.3	42.1	105	69-130	
Tetrachloroethene	ug/m3	69	62.2	90	64-142	
trans-1,2-Dichloroethene	ug/m3	40.3	42.3	105	64-132	
Trichloroethene	ug/m3	54.6	57.6	105	68-132	
Vinyl chloride	ug/m3	26	27.6	106	64-129	

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QUALITY CONTROL DATA

Project: 02751-13 TPC Soil Gas
Pace Project No.: 10153334

QC Batch: AIR/12084 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10153334002, 10153334003, 10153334008, 10153334009, 10153334010, 10153334011, 10153334012

METHOD BLANK: 957486 Matrix: Air
Associated Lab Samples: 10153334002, 10153334003, 10153334008, 10153334009, 10153334010, 10153334011, 10153334012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	04/12/11 18:12	
1,1-Dichloroethane	ug/m3	ND	0.82	04/12/11 18:12	
1,1-Dichloroethene	ug/m3	ND	0.81	04/12/11 18:12	
1,2-Dichloroethane	ug/m3	ND	0.82	04/12/11 18:12	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	04/12/11 18:12	
Tetrachloroethene	ug/m3	ND	1.4	04/12/11 18:12	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	04/12/11 18:12	
Trichloroethene	ug/m3	ND	1.1	04/12/11 18:12	
Vinyl chloride	ug/m3	ND	0.52	04/12/11 18:12	

LABORATORY CONTROL SAMPLE: 957487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.6	98	66-133	
1,1-Dichloroethane	ug/m3	41.2	41.2	100	65-131	
1,1-Dichloroethene	ug/m3	40.3	41.7	103	65-132	
1,2-Dichloroethane	ug/m3	41.2	40.9	99	66-132	
cis-1,2-Dichloroethene	ug/m3	40.3	46.3	115	69-130	
Tetrachloroethene	ug/m3	69	62.6	91	64-142	
trans-1,2-Dichloroethene	ug/m3	40.3	42.8	106	64-132	
Trichloroethene	ug/m3	54.6	59.7	109	68-132	
Vinyl chloride	ug/m3	26	25.9	100	64-129	

SAMPLE DUPLICATE: 958158

Parameter	Units	10153549005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		30	
1,1-Dichloroethane	ug/m3	ND	ND		30	
1,1-Dichloroethene	ug/m3	ND	ND		30	
1,2-Dichloroethane	ug/m3	ND	ND		30	
cis-1,2-Dichloroethene	ug/m3	ND	ND		30	
Tetrachloroethene	ug/m3	2.2	ND		30	
trans-1,2-Dichloroethene	ug/m3	ND	ND		30	
Trichloroethene	ug/m3	ND	ND		30	
Vinyl chloride	ug/m3	ND	ND		30	

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QUALIFIERS

Project: 02751-13 TPC Soil Gas
Pace Project No.: 10153334

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

SAMPLE QUALIFIERS

Sample: 10153334003

[1] The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

[2] Results confirmed by second analysis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 02751-13 TPC Soil Gas
Pace Project No.: 10153334

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10153334002	**SG-03**	TO-15	AIR/12084		
10153334003	**SG-04**	TO-15	AIR/12084		
10153334004	**SG-08**	TO-15	AIR/12062		
10153334005	**SG-09**	TO-15	AIR/12062		
10153334006	**SG-06**	TO-15	AIR/12062		
10153334007	**SG-07**	TO-15	AIR/12062		
10153334008	**SG-16**	TO-15	AIR/12084		
10153334009	**SG-10**	TO-15	AIR/12084		
10153334010	**SG-11**	TO-15	AIR/12084		
10153334011	**SG-13**	TO-15	AIR/12084		
10153334012	**DUP-01**	TO-15	AIR/12084		

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10153334
Project Name: 02751-13 TPC Soil Gas

Lab Sample No: 10153334002
Client Sample ID: SG-03

ProjSampleNum: 10153334002
Matrix: Air

Date Collected: 03/31/11 10:34
Date Received: 04/01/11 10:05

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	ND	ppbv	0.56	2.82	04/12/11 18:44	MH3	71-55-6	
1,1-Dichloroethane	ND	ppbv	0.56	2.82	04/12/11 18:44	MH3	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.57	2.82	04/12/11 18:44	MH3	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.56	2.82	04/12/11 18:44	MH3	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.57	2.82	04/12/11 18:44	MH3	156-59-2	
Tetrachloroethene	ND	ppbv	0.57	2.82	04/12/11 18:44	MH3	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.57	2.82	04/12/11 18:44	MH3	156-60-5	
Trichloroethene	ND	ppbv	0.57	2.82	04/12/11 18:44	MH3	79-01-6	
Vinyl chloride	ND	ppbv	0.58	2.82	04/12/11 18:44	MH3	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10153334
Project Name: 02751-13 TPC Soil Gas

Lab Sample No: 10153334003
Client Sample ID: SG-04

ProjSampleNum: 10153334003
Matrix: Air

Date Collected: 03/31/11 11:09
Date Received: 04/01/11 10:05

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	ND	ppbv	1.6	7.97	04/12/11 19:16	MH3	71-55-6	
1,1-Dichloroethane	ND	ppbv	1.6	7.97	04/12/11 19:16	MH3	75-34-3	
1,1-Dichloroethene	ND	ppbv	1.6	7.97	04/12/11 19:16	MH3	75-35-4	
1,2-Dichloroethane	ND	ppbv	1.6	7.97	04/12/11 19:16	MH3	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	1.6	7.97	04/12/11 19:16	MH3	156-59-2	
Tetrachloroethene	1.99	ppbv	1.6	7.97	04/12/11 19:16	MH3	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	1.6	7.97	04/12/11 19:16	MH3	156-60-5	
Trichloroethene	ND	ppbv	1.6	7.97	04/12/11 19:16	MH3	79-01-6	
Vinyl chloride	ND	ppbv	1.6	7.97	04/12/11 19:16	MH3	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10153334
Project Name: 02751-13 TPC Soil Gas

Lab Sample No: 10153334004
Client Sample ID: SG-08

ProjSampleNum: 10153334004
Matrix: Air

Date Collected: 03/31/11 11:43
Date Received: 04/01/11 10:05

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
1,1,1-Trichloroethane	3.44	ppbv	0.32	1.68	04/11/11 21:15 CJR	71-55-6	
1,1-Dichloroethane	ND	ppbv	0.34	1.68	04/11/11 21:15 CJR	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.35	1.68	04/11/11 21:15 CJR	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.17	1.68	04/11/11 21:15 CJR	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.35	1.68	04/11/11 21:15 CJR	156-59-2	
Tetrachloroethene	0.29	ppbv	0.17	1.68	04/11/11 21:15 CJR	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.35	1.68	04/11/11 21:15 CJR	156-60-5	
Trichloroethene	ND	ppbv	0.17	1.68	04/11/11 21:15 CJR	79-01-6	
Vinyl chloride	ND	ppbv	0.17	1.68	04/11/11 21:15 CJR	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10153334
Project Name: 02751-13 TPC Soil Gas

Lab Sample No: 10153334005
Client Sample ID: SG-09

ProjSampleNum: 10153334005
Matrix: Air

Date Collected: 03/31/11 12:17
Date Received: 04/01/11 10:05

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	52.5	ppbv	0.34	1.74	04/11/11 21:44	CJR	71-55-6	
1,1-Dichloroethane	4.33	ppbv	0.34	1.74	04/11/11 21:44	CJR	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.35	1.74	04/11/11 21:44	CJR	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.17	1.74	04/11/11 21:44	CJR	107-06-2	
cis-1,2-Dichloroethene	1.34	ppbv	0.35	1.74	04/11/11 21:44	CJR	156-59-2	
Tetrachloroethene	ND	ppbv	0.17	1.74	04/11/11 21:44	CJR	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.35	1.74	04/11/11 21:44	CJR	156-60-5	
Trichloroethene	13.9	ppbv	2.9	29.23	04/13/11 5:10	CJR	79-01-6	
Vinyl chloride	ND	ppbv	0.17	1.74	04/11/11 21:44	CJR	75-01-4	

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10153334
Project Name: 02751-13 TPC Soil Gas

Lab Sample No: 10153334006
Client Sample ID: SG-06

ProjSampleNum: 10153334006
Matrix: Air

Date Collected: 03/31/11 12:44
Date Received: 04/01/11 10:05

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
1,1,1-Trichloroethane	1.66	ppbv	0.32	1.68	04/11/11 22:13 CJR	71-55-6	
1,1-Dichloroethane	0.729	ppbv	0.34	1.68	04/11/11 22:13 CJR	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.35	1.68	04/11/11 22:13 CJR	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.17	1.68	04/11/11 22:13 CJR	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.35	1.68	04/11/11 22:13 CJR	156-59-2	
Tetrachloroethene	ND	ppbv	0.17	1.68	04/11/11 22:13 CJR	127-18-4	
trans-1,2-Dichloroethene	1.29	ppbv	0.35	1.68	04/11/11 22:13 CJR	156-60-5	
Trichloroethene	14.1	ppbv	0.17	1.68	04/11/11 22:13 CJR	79-01-6	
Vinyl chloride	ND	ppbv	0.17	1.68	04/11/11 22:13 CJR	75-01-4	

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10153334
Project Name: 02751-13 TPC Soil Gas

Lab Sample No: 10153334007
Client Sample ID: SG-07

ProjSampleNum: 10153334007
Matrix: Air

Date Collected: 03/31/11 13:21
Date Received: 04/01/11 10:05

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	4.29	ppbv	0.32	1.68	04/11/11 22:42	CJR	71-55-6	
1,1-Dichloroethane	ND	ppbv	0.34	1.68	04/11/11 22:42	CJR	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.35	1.68	04/11/11 22:42	CJR	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.17	1.68	04/11/11 22:42	CJR	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.35	1.68	04/11/11 22:42	CJR	156-59-2	
Tetrachloroethene	5.89	ppbv	0.17	1.68	04/11/11 22:42	CJR	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.35	1.68	04/11/11 22:42	CJR	156-60-5	
Trichloroethene	47.2	ppbv	2.8	28.22	04/13/11 5:39	CJR	79-01-6	
Vinyl chloride	ND	ppbv	0.17	1.68	04/11/11 22:42	CJR	75-01-4	

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10153334
Project Name: 02751-13 TPC Soil Gas

Lab Sample No: 10153334008
Client Sample ID: SG-16

ProjSampleNum: 10153334008
Matrix: Air

Date Collected: 03/31/11 14:07
Date Received: 04/01/11 10:05

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	ND	ppbv	0.59	3.02	04/12/11 19:47	MH3	71-55-6	
1,1-Dichloroethane	ND	ppbv	0.61	3.02	04/12/11 19:47	MH3	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.6	3.02	04/12/11 19:47	MH3	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.61	3.02	04/12/11 19:47	MH3	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.6	3.02	04/12/11 19:47	MH3	156-59-2	
Tetrachloroethene	ND	ppbv	0.61	3.02	04/12/11 19:47	MH3	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.6	3.02	04/12/11 19:47	MH3	156-60-5	
Trichloroethene	ND	ppbv	0.6	3.02	04/12/11 19:47	MH3	79-01-6	
Vinyl chloride	ND	ppbv	0.62	3.02	04/12/11 19:47	MH3	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10153334
Project Name: 02751-13 TPC Soil Gas

Lab Sample No: 10153334009
Client Sample ID: SG-10

ProjSampleNum: 10153334009
Matrix: Air

Date Collected: 03/31/11 15:18
Date Received: 04/01/11 10:05

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	ND	ppbv	0.59	3.03	04/12/11 20:19	MH3	71-55-6	
1,1-Dichloroethane	ND	ppbv	0.61	3.03	04/12/11 20:19	MH3	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.62	3.03	04/12/11 20:19	MH3	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.61	3.03	04/12/11 20:19	MH3	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.62	3.03	04/12/11 20:19	MH3	156-59-2	
Tetrachloroethene	ND	ppbv	0.61	3.03	04/12/11 20:19	MH3	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.62	3.03	04/12/11 20:19	MH3	156-60-5	
Trichloroethene	ND	ppbv	0.6	3.03	04/12/11 20:19	MH3	79-01-6	
Vinyl chloride	ND	ppbv	0.62	3.03	04/12/11 20:19	MH3	75-01-4	

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10153334
Project Name: 02751-13 TPC Soil Gas

Lab Sample No: 10153334010
Client Sample ID: SG-11

ProjSampleNum: 10153334010
Matrix: Air

Date Collected: 03/31/11 15:46
Date Received: 04/01/11 10:05

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	ND	ppbv	0.56	2.82	04/12/11 20:51	MH3	71-55-6	
1,1-Dichloroethane	ND	ppbv	0.56	2.82	04/12/11 20:51	MH3	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.57	2.82	04/12/11 20:51	MH3	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.56	2.82	04/12/11 20:51	MH3	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.57	2.82	04/12/11 20:51	MH3	156-59-2	
Tetrachloroethene	ND	ppbv	0.57	2.82	04/12/11 20:51	MH3	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.57	2.82	04/12/11 20:51	MH3	156-60-5	
Trichloroethene	ND	ppbv	0.57	2.82	04/12/11 20:51	MH3	79-01-6	
Vinyl chloride	ND	ppbv	0.58	2.82	04/12/11 20:51	MH3	75-01-4	

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10153334
Project Name: 02751-13 TPC Soil Gas

Lab Sample No: 10153334011
Client Sample ID: SG-13

ProjSampleNum: 10153334011
Matrix: Air

Date Collected: 03/31/11 16:42
Date Received: 04/01/11 10:05

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	ND	ppbv	0.56	2.82	04/12/11 21:22	MH3	71-55-6	
1,1-Dichloroethane	ND	ppbv	0.56	2.82	04/12/11 21:22	MH3	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.57	2.82	04/12/11 21:22	MH3	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.56	2.82	04/12/11 21:22	MH3	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.57	2.82	04/12/11 21:22	MH3	156-59-2	
Tetrachloroethene	ND	ppbv	0.57	2.82	04/12/11 21:22	MH3	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.57	2.82	04/12/11 21:22	MH3	156-60-5	
Trichloroethene	ND	ppbv	0.57	2.82	04/12/11 21:22	MH3	79-01-6	
Vinyl chloride	ND	ppbv	0.58	2.82	04/12/11 21:22	MH3	75-01-4	

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Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10153334
Project Name: 02751-13 TPC Soil Gas

Lab Sample No: 10153334012
Client Sample ID: DUP-01

ProjSampleNum: 10153334012
Matrix: Air

Date Collected: 03/31/11 0:00
Date Received: 04/01/11 10:05

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	5.01	ppbv	0.56	2.82	04/12/11 21:54	MH3	71-55-6	
1,1-Dichloroethane	ND	ppbv	0.56	2.82	04/12/11 21:54	MH3	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.57	2.82	04/12/11 21:54	MH3	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.56	2.82	04/12/11 21:54	MH3	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.57	2.82	04/12/11 21:54	MH3	156-59-2	
Tetrachloroethene	7.85	ppbv	0.57	2.82	04/12/11 21:54	MH3	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.57	2.82	04/12/11 21:54	MH3	156-60-5	
Trichloroethene	90.6	ppbv	5.7	28.22	04/13/11 17:24	MH3	79-01-6	
Vinyl chloride	ND	ppbv	0.58	2.82	04/12/11 21:54	MH3	75-01-4	

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ANALYTICAL RESULTS

Client:	RMT, INC	Lab Project Number:	10153334
Phone:	734-971-7080	Project Name:	02751-13 TPC Soil Gas

PARAMETER FOOTNOTES

10153334

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www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

04376 Page: 1 of 1

Section A Required Client Information:
Company: RMT
Address: 3754 Ranchero Drive, Ann Arbor MI 48108
Email To: stacy.metz@rmtinc.com
Phone: 734 971 7080 Fax: 734-971-9022
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Stacy Metz
Copy To:
Purchase Order No.:
Project Name: TPC Soil Gas
Project Number: 02751.13

Section C Invoice Information:
Attention: Accts Payable
Company Name: RMT
Address: 744 Hartland Trail Madison WI
Pace Quote Reference:
Pace Project Manager/Sales Rep. Carolynne Trout
Pace Profile #:

Program: UST / Superfund / Emissions / Clean Air Act / Voluntary Clean Up / Dry Clean / RCRA / Other
Location of Sampling by State: MI
Reporting Units: ug/m³ / mg/m³ / PPBV / PPMV / Other
Report Level: II. III. IV. Other

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start End/Grab DATE	TIME	Composite - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C-Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	SG-01	1LC	435	3/31/11	928	3/31	939	28	0	1011	080								X		10153334001
2	SG-03		148		1021		1034	26	0	1079	FC167										002
3	SG-04				1045		1109	26	0	0996	FC171										003
4	SG-08				1123		1143	26	1	1000	FC174										004
5	SG-09				1157		1217	28	2	0874	FC194										005
6	SG-06				1231		1244	25	0	1158	FC423										006
7	SG-07				1306		1321	28	0	1321	FC166										007
8	SG-16				1352		1407	30	1	0899	FC173										008
9	SG-10				1501		1518	28	2	1335	FC175										009
10	SG-11				1531		1546	26	0	1141	FC245										010
11	SG-05 SG-13				1622		1642	26		1316	FC393										011
12	DUP-01				—		—	26	0	0908	—										012

Comments:
Analyte list: 1,2DCA, 1,1DCA, 11 DCE, CIS 12DCE, trans 1,2 DCE, TCE, PCE, 111 TCA
Vinyl chloride per previous events

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Stacy Metz / RMT	3/31	1757	Fed Ex	3/31	1757
			[illegible] Pace	4-1-11	10:05

SAMPLE CONDITIONS: Temp in °C; Received on Ice Y/N; Custody Sealed Cooler Y/N; Samples Intact Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Stacy Metz
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 03/31/11

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

AIR Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT Project # 10153334

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Tracking #:_____

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 4-1-11 ZF

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media: AIR(CAN)		11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.

Samples Received: 12 CANS, 11 FC'S

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
SG-01	1011		FC0199	SG-13	1316		FC0193
SG-03	1029		FC0167	DUP-01	0908		
SG-04	0996		FC0171				
SG-08	1000		FC0174				
SG-09	0874		FC0194				
SG-06	1158		FC0423				
SG-07	1321		FC0166				
SG-16	0899		FC0173				
SG-10	1335		FC0175				
SG-11	1141		FC0245				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Stacy Metz Date/Time: 4/4

Comments/ Resolution:

SG-01 - recd back leaking - She will see if need to resample. analyze for list on front pg of COC, same list as previous event

Project Manager Review: [signature] **Date:** 4/4/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

April 27, 2011

Ms. Stacy Metz
RMT, INC
3754 Ranchero Dr.
Ann Arbor, MI 48108

RE: Project: 02751.13 TPC Soil Gas
Pace Project No.: 10154481

Dear Ms. Metz:
Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 02751.13 TPC Soil Gas
Pace Project No.: 10154481

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 02751.13 TPC Soil Gas
Pace Project No.: 10154481

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10154481001	**SG-01**	Air	04/13/11 17:24	04/14/11 09:38
10154481002	**1311**	Air		04/14/11 09:38

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SAMPLE ANALYTE COUNT

Project: 02751.13 TPC Soil Gas
Pace Project No.: 10154481

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10154481001	**SG-01**	TO-15	CJR, DR1	9

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PROJECT NARRATIVE

Project: 02751.13 TPC Soil Gas
Pace Project No.: 10154481

Method: **TO-15**
Description: TO15 MSV AIR
Client: RMT, INC
Date: April 27, 2011

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 02751.13 TPC Soil Gas
Pace Project No.: 10154481

Sample: SG-01 **Lab ID: 10154481001** Collected: 04/13/11 17:24 Received: 04/14/11 09:38 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	**135**	ug/m3	27.6	33.6		04/26/11 01:17	75-34-3	
1,2-Dichloroethane	**682**	ug/m3	27.6	33.6		04/26/11 01:17	107-06-2	
1,1-Dichloroethene	**84.6**	ug/m3	27.2	33.6		04/26/11 01:17	75-35-4	
cis-1,2-Dichloroethene	**442**	ug/m3	27.2	33.6		04/26/11 01:17	156-59-2	
trans-1,2-Dichloroethene	**31.4**	ug/m3	27.2	33.6		04/26/11 01:17	156-60-5	
Tetrachloroethene	**583**	ug/m3	47.0	33.6		04/26/11 01:17	127-18-4	
1,1,1-Trichloroethane	**14600**	ug/m3	591	537.6		04/27/11 03:46	71-55-6	
Trichloroethene	**57300**	ug/m3	296	537.6		04/27/11 03:46	79-01-6	
Vinyl chloride	ND	ug/m3	17.5	33.6		04/26/11 01:17	75-01-4	

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QUALITY CONTROL DATA

Project: 02751.13 TPC Soil Gas
Pace Project No.: 10154481

QC Batch: AIR/12157
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10154481001

METHOD BLANK: 964393
Matrix: Air
Associated Lab Samples: 10154481001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	04/25/11 09:38	
1,1-Dichloroethane	ug/m3	ND	0.82	04/25/11 09:38	
1,1-Dichloroethene	ug/m3	ND	0.81	04/25/11 09:38	
1,2-Dichloroethane	ug/m3	ND	0.82	04/25/11 09:38	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	04/25/11 09:38	
Tetrachloroethene	ug/m3	ND	1.4	04/25/11 09:38	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	04/25/11 09:38	
Trichloroethene	ug/m3	ND	0.55	04/25/11 09:38	
Vinyl chloride	ug/m3	ND	0.52	04/25/11 09:38	

LABORATORY CONTROL SAMPLE: 964394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	51.0	92	66-133	
1,1-Dichloroethane	ug/m3	41.2	38.8	94	65-131	
1,1-Dichloroethene	ug/m3	40.3	38.2	95	65-132	
1,2-Dichloroethane	ug/m3	41.2	40.0	97	66-132	
cis-1,2-Dichloroethene	ug/m3	40.3	36.5	90	69-130	
Tetrachloroethene	ug/m3	69	63.5	92	64-142	
trans-1,2-Dichloroethene	ug/m3	40.3	35.7	89	64-132	
Trichloroethene	ug/m3	54.6	48.8	89	68-132	
Vinyl chloride	ug/m3	26	24.1	93	64-129	

SAMPLE DUPLICATE: 965615

Parameter	Units	10155075004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		30	
1,1-Dichloroethane	ug/m3	ND	ND		30	
1,1-Dichloroethene	ug/m3	ND	ND		30	
1,2-Dichloroethane	ug/m3	ND	ND		30	
cis-1,2-Dichloroethene	ug/m3	ND	ND		30	
Tetrachloroethene	ug/m3	ND	ND		30	
trans-1,2-Dichloroethene	ug/m3	ND	ND		30	
Trichloroethene	ug/m3	ND	ND		30	
Vinyl chloride	ug/m3	ND	ND		30	

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QUALIFIERS

Project: 02751.13 TPC Soil Gas
Pace Project No.: 10154481

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 02751.13 TPC Soil Gas
Pace Project No.: 10154481

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10154481001	**SG-01**	TO-15	AIR/12157		

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Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10154481
Project Name: 02751.13 TPC Soil Gas

Lab Sample No: 10154481001
Client Sample ID: SG-01

ProjSampleNum: 10154481001
Matrix: Air

Date Collected: 04/13/11 17:24
Date Received: 04/14/11 9:38

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	2630	ppbv	110	537.6	04/27/11 3:46	CJR	71-55-6	
1,1-Dichloroethane	32.8	ppbv	6.7	33.6	04/26/11 1:17	DR1	75-34-3	
1,1-Dichloroethene	21	ppbv	6.7	33.6	04/26/11 1:17	DR1	75-35-4	
1,2-Dichloroethane	166	ppbv	6.7	33.6	04/26/11 1:17	DR1	107-06-2	
cis-1,2-Dichloroethene	110	ppbv	6.7	33.6	04/26/11 1:17	DR1	156-59-2	
Tetrachloroethene	84.6	ppbv	6.8	33.6	04/26/11 1:17	DR1	127-18-4	
trans-1,2-Dichloroethene	7.79	ppbv	6.7	33.6	04/26/11 1:17	DR1	156-60-5	
Trichloroethene	10500	ppbv	54	537.6	04/27/11 3:46	CJR	79-01-6	
Vinyl chloride	ND	ppbv	6.7	33.6	04/26/11 1:17	DR1	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client:	RMT, INC	Lab Project Number:	10154481
Phone:	734-971-7080	Project Name:	02751.13 TPC Soil Gas

PARAMETER FOOTNOTES

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www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10154481

04379

Page: 1 of 1

Section A Required Client Information:

Company: RMT
Address: 3754 Ranchero Dr
Ann Arbor MI 48108
Email To: stacy.metz@rmtinc.com
Phone: 734 904 3325 Fax: 734 971 9022
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Stacy Metz
Copy To:
Purchase Order No.:
Project Name: TPC Soil Gas
Project Number: 02751.13

Section C Invoice Information:

Attention: Accounts Payable
Company Name: RMT
Address: 744 Heartland Trail Madison WI
Pace Quote Reference:
Pace Project Manager/Sales Rep. Carolynne Trout
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☒ RCRA ☐ Other

Location of Sampling by State: MI

Reporting Units: ug/m³ ___ mg/m³ ___ PPBV ☒ PPMV ___ Other ___

Report Level II.___ III.___ IV.☒ Other ___

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED: COMPOSITE START END/GRAB DATE	TIME	COMPOSITE - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C-Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List+	Pace Lab ID
1	SG-01	1LC	–	4/14/11	1704	4/14/11	1724	28	2	1320	FC196									X	10154481001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments:

Project Short List:
1,1-DCA
1,1,1-TCA
1,2-DCA
1,1-DCE
cis-1,2-DCE
trans-1,2 DCE
PCE
TCE
vinyl chloride
ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Stacy Metz	4/14/11	1856	Fed Ex	4/14/11	1856
			[illegible]	4/14/11	09:38

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Stacy Metz
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 04/13/11

SAMPLE CONDITIONS	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
AMB	Y/N	Y/N	Y/N	Y/N
AMB	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

AIR Sample Condition Upon Receipt

Pace Analytical™

Client Name: RMT Project # 10154481

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other_____

Optional
Proj. Due Date:
Proj. Name:

Tracking #: 8627 4046 0135

Date and Initials of person examining contents: 4-14-11 JF

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Media: AIR (CAN)				11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.

Samples Received: 2CANS, 2FC'S

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
SG-01	1320		FC0196				
	1311		FC0073				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 4/15/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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(612)607-1700

June 22, 2011

Ms. Stacy Metz
RMT, INC
3754 Ranchero Dr.
Ann Arbor, MI 48108

RE: Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10159593

Dear Ms. Metz:
Enclosed are the analytical results for sample(s) received by the laboratory on June 08, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10159593

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10159593

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10159593001	**SG-01**	Air	06/07/11 11:04	06/08/11 09:55
10159593002	**SG-04**	Air	06/07/11 12:20	06/08/11 09:55
10159593003	**SG-13**	Air	06/07/11 13:40	06/08/11 09:55
10159593004	**SG-11**	Air	06/07/11 15:11	06/08/11 09:55
10159593005	**SG-06**	Air	06/07/11 15:46	06/08/11 09:55
10159593006	**SG-07**	Air	06/07/11 16:54	06/08/11 09:55
10159593007	**DUP-01**	Air	06/07/11 00:00	06/08/11 09:55
10159593008	**SG-16**	Air	06/07/11 16:56	06/08/11 09:55

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SAMPLE ANALYTE COUNT

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10159593

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10159593001	**SG-01**	TO-15	DR1	9
10159593002	**SG-04**	TO-15	DR1	9
10159593003	**SG-13**	TO-15	CJR	9
10159593004	**SG-11**	TO-15	CJR	9
10159593005	**SG-06**	TO-15	CJR	9
10159593006	**SG-07**	TO-15	CJR, DR1	9
10159593007	**DUP-01**	TO-15	CJR, DR1	9
10159593008	**SG-16**	TO-15	DR1	9

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PROJECT NARRATIVE

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10159593

Method: **TO-15**
Description: TO15 MSV AIR
Client: RMT, INC
Date: June 22, 2011

General Information:
8 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

QC Batch: AIR/12496

IS: The internal standard recovery associated with this result exceeds the lower control limit. The reported result should be considered an estimated value.

- DUP-01 (Lab ID: 10159593007)
  - Tetrachloroethene
  - Trichloroethene

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: AIR/12496

C0: Result confirmed by second analysis.

- DUP-01 (Lab ID: 10159593007)
  - Tetrachloroethene

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PROJECT NARRATIVE

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10159593

Method: **TO-15**
Description: TO15 MSV AIR
Client: RMT, INC
Date: June 22, 2011

Analyte Comments:

QC Batch: AIR/12496

C0: Result confirmed by second analysis.

- DUP-01 (Lab ID: 10159593007)
  - Trichloroethene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10159593

Sample: SG-01 **Lab ID: 10159593001** Collected: 06/07/11 11:04 Received: 06/08/11 09:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	742	904.32		06/20/11 18:10	75-34-3	
1,2-Dichloroethane	ND	ug/m3	371	904.32		06/20/11 18:10	107-06-2	
1,1-Dichloroethene	ND	ug/m3	732	904.32		06/20/11 18:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	732	904.32		06/20/11 18:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	732	904.32		06/20/11 18:10	156-60-5	
Tetrachloroethene	**676**	ug/m3	623	904.32		06/20/11 18:10	127-18-4	
1,1,1-Trichloroethane	**7880**	ug/m3	995	904.32		06/20/11 18:10	71-55-6	
Trichloroethene	**40100**	ug/m3	497	904.32		06/20/11 18:10	79-01-6	
Vinyl chloride	ND	ug/m3	235	904.32		06/20/11 18:10	75-01-4	

Sample: SG-04 **Lab ID: 10159593002** Collected: 06/07/11 12:20 Received: 06/08/11 09:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	4.3	5.25		06/17/11 14:42	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.2	5.25		06/17/11 14:42	107-06-2	
1,1-Dichloroethene	ND	ug/m3	4.3	5.25		06/17/11 14:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	4.3	5.25		06/17/11 14:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	4.3	5.25		06/17/11 14:42	156-60-5	
Tetrachloroethene	ND	ug/m3	3.6	5.25		06/17/11 14:42	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	5.8	5.25		06/17/11 14:42	71-55-6	
Trichloroethene	ND	ug/m3	2.9	5.25		06/17/11 14:42	79-01-6	
Vinyl chloride	ND	ug/m3	1.4	5.25		06/17/11 14:42	75-01-4	

Sample: SG-13 **Lab ID: 10159593003** Collected: 06/07/11 13:40 Received: 06/08/11 09:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	**6.0**	ug/m3	1.6	1.93		06/14/11 17:45	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.79	1.93		06/14/11 17:45	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.6	1.93		06/14/11 17:45	75-35-4	
cis-1,2-Dichloroethene	**19.5**	ug/m3	1.6	1.93		06/14/11 17:45	156-59-2	
trans-1,2-Dichloroethene	**43.6**	ug/m3	1.6	1.93		06/14/11 17:45	156-60-5	
Tetrachloroethene	**5.3**	ug/m3	1.3	1.93		06/14/11 17:45	127-18-4	
1,1,1-Trichloroethane	**4.5**	ug/m3	2.1	1.93		06/14/11 17:45	71-55-6	
Trichloroethene	**8.8**	ug/m3	1.1	1.93		06/14/11 17:45	79-01-6	
Vinyl chloride	ND	ug/m3	0.50	1.93		06/14/11 17:45	75-01-4	

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ANALYTICAL RESULTS

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10159593

Sample: SG-11 **Lab ID: 10159593004** Collected: 06/07/11 15:11 Received: 06/08/11 09:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	1.6	1.93		06/14/11 18:13	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.79	1.93		06/14/11 18:13	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.6	1.93		06/14/11 18:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.6	1.93		06/14/11 18:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.6	1.93		06/14/11 18:13	156-60-5	
Tetrachloroethene	**6.1**	ug/m3	1.3	1.93		06/14/11 18:13	127-18-4	
1,1,1-Trichloroethane	**3.0**	ug/m3	2.1	1.93		06/14/11 18:13	71-55-6	
Trichloroethene	**6.3**	ug/m3	1.1	1.93		06/14/11 18:13	79-01-6	
Vinyl chloride	ND	ug/m3	0.50	1.93		06/14/11 18:13	75-01-4	

Sample: SG-06 **Lab ID: 10159593005** Collected: 06/07/11 15:46 Received: 06/08/11 09:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	**3.6**	ug/m3	1.5	1.86		06/14/11 18:45	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.76	1.86		06/14/11 18:45	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.5	1.86		06/14/11 18:45	75-35-4	
cis-1,2-Dichloroethene	**22.6**	ug/m3	1.5	1.86		06/14/11 18:45	156-59-2	
trans-1,2-Dichloroethene	**10.1**	ug/m3	1.5	1.86		06/14/11 18:45	156-60-5	
Tetrachloroethene	**51.6**	ug/m3	1.3	1.86		06/14/11 18:45	127-18-4	
1,1,1-Trichloroethane	**13.6**	ug/m3	2.0	1.86		06/14/11 18:45	71-55-6	
Trichloroethene	**274**	ug/m3	1.0	1.86		06/14/11 18:45	79-01-6	
Vinyl chloride	ND	ug/m3	0.48	1.86		06/14/11 18:45	75-01-4	

Sample: SG-07 **Lab ID: 10159593006** Collected: 06/07/11 16:54 Received: 06/08/11 09:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	1.5	1.86		06/14/11 19:13	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.76	1.86		06/14/11 19:13	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.5	1.86		06/14/11 19:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.86		06/14/11 19:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.5	1.86		06/14/11 19:13	156-60-5	
Tetrachloroethene	**163**	ug/m3	1.3	1.86		06/14/11 19:13	127-18-4	
1,1,1-Trichloroethane	**24.2**	ug/m3	2.0	1.86		06/14/11 19:13	71-55-6	
Trichloroethene	**933**	ug/m3	34.4	62.5		06/15/11 14:15	79-01-6	
Vinyl chloride	ND	ug/m3	0.48	1.86		06/14/11 19:13	75-01-4	

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ANALYTICAL RESULTS

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10159593

Sample: DUP-01 **Lab ID: 10159593007** Collected: 06/07/11 00:00 Received: 06/08/11 09:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	1.5	1.8		06/14/11 19:45	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.74	1.8		06/14/11 19:45	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.5	1.8		06/14/11 19:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.8		06/14/11 19:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.5	1.8		06/14/11 19:45	156-60-5	
Tetrachloroethene	**196**	ug/m3	41.7	60.48		06/17/11 23:15	127-18-4	C0,IS
1,1,1-Trichloroethane	**52.5**	ug/m3	2.0	1.8		06/14/11 19:45	71-55-6	
Trichloroethene	**531**	ug/m3	33.3	60.48		06/17/11 23:15	79-01-6	C0,IS
Vinyl chloride	ND	ug/m3	0.47	1.8		06/14/11 19:45	75-01-4	

Sample: SG-16 **Lab ID: 10159593008** Collected: 06/07/11 16:56 Received: 06/08/11 09:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	4.5	5.44		06/17/11 15:10	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.2	5.44		06/17/11 15:10	107-06-2	
1,1-Dichloroethene	ND	ug/m3	4.4	5.44		06/17/11 15:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	4.4	5.44		06/17/11 15:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	4.4	5.44		06/17/11 15:10	156-60-5	
Tetrachloroethene	ND	ug/m3	3.7	5.44		06/17/11 15:10	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	6.0	5.44		06/17/11 15:10	71-55-6	
Trichloroethene	**3.4**	ug/m3	3.0	5.44		06/17/11 15:10	79-01-6	
Vinyl chloride	ND	ug/m3	1.4	5.44		06/17/11 15:10	75-01-4	

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QUALITY CONTROL DATA

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10159593

QC Batch: AIR/12496 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10159593003, 10159593004, 10159593005, 10159593006, 10159593007

METHOD BLANK: 994507 Matrix: Air
Associated Lab Samples: 10159593003, 10159593004, 10159593005, 10159593006, 10159593007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/14/11 09:53	
1,1-Dichloroethane	ug/m3	ND	0.82	06/14/11 09:53	
1,1-Dichloroethene	ug/m3	ND	0.81	06/14/11 09:53	
1,2-Dichloroethane	ug/m3	ND	0.41	06/14/11 09:53	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/14/11 09:53	
Tetrachloroethene	ug/m3	ND	0.69	06/14/11 09:53	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/14/11 09:53	
Trichloroethene	ug/m3	ND	0.55	06/14/11 09:53	
Vinyl chloride	ug/m3	ND	0.26	06/14/11 09:53	

LABORATORY CONTROL SAMPLE: 994508

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	52.4	94	66-133	
1,1-Dichloroethane	ug/m3	41.2	40.6	99	65-131	
1,1-Dichloroethene	ug/m3	40.3	40.2	100	65-132	
1,2-Dichloroethane	ug/m3	41.2	43.6	106	66-132	
cis-1,2-Dichloroethene	ug/m3	40.3	35.6	88	69-130	
Tetrachloroethene	ug/m3	69	65.2	95	64-142	
trans-1,2-Dichloroethene	ug/m3	40.3	35.2	87	64-132	
Trichloroethene	ug/m3	54.6	48.0	88	68-132	
Vinyl chloride	ug/m3	26	23.2	89	64-129	

SAMPLE DUPLICATE: 995318

Parameter	Units	10159242001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	2.3	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	2.1		25	
Tetrachloroethene	ug/m3	70.8	74.0	4	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	6.4	6.5	2	25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10159593

QC Batch: AIR/12502 | Analysis Method: TO-15
QC Batch Method: TO-15 | Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10159593002, 10159593008

METHOD BLANK: 995511 | Matrix: Air
Associated Lab Samples: 10159593002, 10159593008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/17/11 08:51	
1,1-Dichloroethane	ug/m3	ND	0.82	06/17/11 08:51	
1,1-Dichloroethene	ug/m3	ND	0.81	06/17/11 08:51	
1,2-Dichloroethane	ug/m3	ND	0.41	06/17/11 08:51	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/17/11 08:51	
Tetrachloroethene	ug/m3	ND	0.69	06/17/11 08:51	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/17/11 08:51	
Trichloroethene	ug/m3	ND	0.55	06/17/11 08:51	
Vinyl chloride	ug/m3	ND	0.26	06/17/11 08:51	

LABORATORY CONTROL SAMPLE: 995512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	49.0	88	66-133	
1,1-Dichloroethane	ug/m3	41.2	33.7	82	65-131	
1,1-Dichloroethene	ug/m3	40.3	35.6	88	65-132	
1,2-Dichloroethane	ug/m3	41.2	32.4	79	66-132	
cis-1,2-Dichloroethene	ug/m3	40.3	35.9	89	69-130	
Tetrachloroethene	ug/m3	69	64.8	94	64-142	
trans-1,2-Dichloroethene	ug/m3	40.3	44.3	110	64-132	
Trichloroethene	ug/m3	54.6	53.5	98	68-132	
Vinyl chloride	ug/m3	26	26.5	102	64-129	

SAMPLE DUPLICATE: 998520

Parameter	Units	10159636004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	.93J		25	
Tetrachloroethene	ug/m3	4.9	4.6	5	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	2.0	2.1	5	25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10159593

QC Batch: AIR/12536
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10159593001

METHOD BLANK: 998662
Matrix: Air
Associated Lab Samples: 10159593001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/20/11 15:46	
1,1-Dichloroethane	ug/m3	ND	0.82	06/20/11 15:46	
1,1-Dichloroethene	ug/m3	ND	0.81	06/20/11 15:46	
1,2-Dichloroethane	ug/m3	ND	0.41	06/20/11 15:46	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/20/11 15:46	
Tetrachloroethene	ug/m3	ND	0.69	06/20/11 15:46	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/20/11 15:46	
Trichloroethene	ug/m3	ND	0.55	06/20/11 15:46	
Vinyl chloride	ug/m3	ND	0.26	06/20/11 15:46	

LABORATORY CONTROL SAMPLE: 998663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	61.4	111	66-133	
1,1-Dichloroethane	ug/m3	41.2	47.6	116	65-131	
1,1-Dichloroethene	ug/m3	40.3	47.6	118	65-132	
1,2-Dichloroethane	ug/m3	41.2	48.2	117	66-132	
cis-1,2-Dichloroethene	ug/m3	40.3	47.2	117	69-130	
Tetrachloroethene	ug/m3	69	68.4	99	64-142	
trans-1,2-Dichloroethene	ug/m3	40.3	46.8	116	64-132	
Trichloroethene	ug/m3	54.6	63.5	116	68-132	
Vinyl chloride	ug/m3	26	28.9	111	64-129	

SAMPLE DUPLICATE: 999190

Parameter	Units	10159593001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	7880	7720	2	25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	676	650	4	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	40100	39300	2	25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALIFIERS

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10159593

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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ANALYTE QUALIFIERS

C0	Result confirmed by second analysis.
IS	The internal standard recovery associated with this result exceeds the lower control limit. The reported result should be considered an estimated value.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10159593

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10159593001	**SG-01**	TO-15	AIR/12536		
10159593002	**SG-04**	TO-15	AIR/12502		
10159593003	**SG-13**	TO-15	AIR/12496		
10159593004	**SG-11**	TO-15	AIR/12496		
10159593005	**SG-06**	TO-15	AIR/12496		
10159593006	**SG-07**	TO-15	AIR/12496		
10159593007	**DUP-01**	TO-15	AIR/12496		
10159593008	**SG-16**	TO-15	AIR/12502		

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10159593
Project Name: 02751.13 TPC-Soil Gas

Lab Sample No: 10159593001
Client Sample ID: SG-01

ProjSampleNum: 10159593001
Matrix: Air

Date Collected: 06/07/11 11:04
Date Received: 06/08/11 9:55

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
1,1,1-Trichloroethane	1420	ppbv	180	904.32	06/20/11 18:10 DR1	71-55-6	
1,1-Dichloroethane	ND	ppbv	180	904.32	06/20/11 18:10 DR1	75-34-3	
1,1-Dichloroethene	ND	ppbv	180	904.32	06/20/11 18:10 DR1	75-35-4	
1,2-Dichloroethane	ND	ppbv	90	904.32	06/20/11 18:10 DR1	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	180	904.32	06/20/11 18:10 DR1	156-59-2	
Tetrachloroethene	98.1	ppbv	90	904.32	06/20/11 18:10 DR1	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	180	904.32	06/20/11 18:10 DR1	156-60-5	
Trichloroethene	7340	ppbv	91	904.32	06/20/11 18:10 DR1	79-01-6	
Vinyl chloride	ND	ppbv	90	904.32	06/20/11 18:10 DR1	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10159593
Project Name: 02751.13 TPC-Soil Gas

Lab Sample No: 10159593002
Client Sample ID: SG-04

ProjSampleNum: 10159593002
Matrix: Air

Date Collected: 06/07/11 12:20
Date Received: 06/08/11 9:55

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	ND	ppbv	1	5.25	06/17/11 14:42	DR1	71-55-6	
1,1-Dichloroethane	ND	ppbv	1	5.25	06/17/11 14:42	DR1	75-34-3	
1,1-Dichloroethene	ND	ppbv	1.1	5.25	06/17/11 14:42	DR1	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.53	5.25	06/17/11 14:42	DR1	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	1.1	5.25	06/17/11 14:42	DR1	156-59-2	
Tetrachloroethene	ND	ppbv	0.52	5.25	06/17/11 14:42	DR1	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	1.1	5.25	06/17/11 14:42	DR1	156-60-5	
Trichloroethene	ND	ppbv	0.53	5.25	06/17/11 14:42	DR1	79-01-6	
Vinyl chloride	ND	ppbv	0.54	5.25	06/17/11 14:42	DR1	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10159593
Project Name: 02751.13 TPC-Soil Gas

Lab Sample No: 10159593003
Client Sample ID: SG-13

ProjSampleNum: 10159593003
Matrix: Air

Date Collected: 06/07/11 13:40
Date Received: 06/08/11 9:55

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
1,1,1-Trichloroethane	0.811	ppbv	0.38	1.93	06/14/11 17:45 CJR	71-55-6	
1,1-Dichloroethane	1.46	ppbv	0.39	1.93	06/14/11 17:45 CJR	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.4	1.93	06/14/11 17:45 CJR	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.19	1.93	06/14/11 17:45 CJR	107-06-2	
cis-1,2-Dichloroethene	4.84	ppbv	0.4	1.93	06/14/11 17:45 CJR	156-59-2	
Tetrachloroethene	0.769	ppbv	0.19	1.93	06/14/11 17:45 CJR	127-18-4	
trans-1,2-Dichloroethene	10.8	ppbv	0.4	1.93	06/14/11 17:45 CJR	156-60-5	
Trichloroethene	1.61	ppbv	0.2	1.93	06/14/11 17:45 CJR	79-01-6	
Vinyl chloride	ND	ppbv	0.19	1.93	06/14/11 17:45 CJR	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10159593
Project Name: 02751.13 TPC-Soil Gas

Lab Sample No: 10159593004
Client Sample ID: SG-11

ProjSampleNum: 10159593004
Matrix: Air

Date Collected: 06/07/11 15:11
Date Received: 06/08/11 9:55

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
1,1,1-Trichloroethane	0.541	ppbv	0.38	1.93	06/14/11 18:13 CJR	71-55-6	
1,1-Dichloroethane	ND	ppbv	0.39	1.93	06/14/11 18:13 CJR	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.4	1.93	06/14/11 18:13 CJR	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.19	1.93	06/14/11 18:13 CJR	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.4	1.93	06/14/11 18:13 CJR	156-59-2	
Tetrachloroethene	0.885	ppbv	0.19	1.93	06/14/11 18:13 CJR	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.4	1.93	06/14/11 18:13 CJR	156-60-5	
Trichloroethene	1.15	ppbv	0.2	1.93	06/14/11 18:13 CJR	79-01-6	
Vinyl chloride	ND	ppbv	0.19	1.93	06/14/11 18:13 CJR	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10159593
Project Name: 02751.13 TPC-Soil Gas

Lab Sample No: 10159593005
Client Sample ID: SG-06

ProjSampleNum: 10159593005
Matrix: Air

Date Collected: 06/07/11 15:46
Date Received: 06/08/11 9:55

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
1,1,1-Trichloroethane	2.45	ppbv	0.36	1.86	06/14/11 18:45 CJR	71-55-6	
1,1-Dichloroethane	0.875	ppbv	0.36	1.86	06/14/11 18:45 CJR	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.37	1.86	06/14/11 18:45 CJR	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.18	1.86	06/14/11 18:45 CJR	107-06-2	
cis-1,2-Dichloroethene	5.61	ppbv	0.37	1.86	06/14/11 18:45 CJR	156-59-2	
Tetrachloroethene	7.48	ppbv	0.19	1.86	06/14/11 18:45 CJR	127-18-4	
trans-1,2-Dichloroethene	2.51	ppbv	0.37	1.86	06/14/11 18:45 CJR	156-60-5	
Trichloroethene	50.2	ppbv	0.18	1.86	06/14/11 18:45 CJR	79-01-6	
Vinyl chloride	ND	ppbv	0.18	1.86	06/14/11 18:45 CJR	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10159593
Project Name: 02751.13 TPC-Soil Gas

Lab Sample No: 10159593006
Client Sample ID: SG-07

ProjSampleNum: 10159593006
Matrix: Air

Date Collected: 06/07/11 16:54
Date Received: 06/08/11 9:55

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	4.36	ppbv	0.36	1.86	06/14/11 19:13	CJR	71-55-6	
1,1-Dichloroethane	ND	ppbv	0.36	1.86	06/14/11 19:13	CJR	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.37	1.86	06/14/11 19:13	CJR	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.18	1.86	06/14/11 19:13	CJR	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.37	1.86	06/14/11 19:13	CJR	156-59-2	
Tetrachloroethene	23.6	ppbv	0.19	1.86	06/14/11 19:13	CJR	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.37	1.86	06/14/11 19:13	CJR	156-60-5	
Trichloroethene	171	ppbv	6.3	62.5	06/15/11 14:15	DR1	79-01-6	
Vinyl chloride	ND	ppbv	0.18	1.86	06/14/11 19:13	CJR	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10159593
Project Name: 02751.13 TPC-Soil Gas

Lab Sample No: 10159593007
Client Sample ID: DUP-01

ProjSampleNum: 10159593007
Matrix: Air

Date Collected: 06/07/11 0:00
Date Received: 06/08/11 9:55

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	9.47	ppbv	0.36	1.8	06/14/11 19:45	CJR	71-55-6	
1,1-Dichloroethane	ND	ppbv	0.36	1.8	06/14/11 19:45	CJR	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.37	1.8	06/14/11 19:45	CJR	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.18	1.8	06/14/11 19:45	CJR	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.37	1.8	06/14/11 19:45	CJR	156-59-2	
Tetrachloroethene	28.4	ppbv	6	60.48	06/17/11 23:15	DR1	127-18-4	C0, IS
trans-1,2-Dichloroethene	ND	ppbv	0.37	1.8	06/14/11 19:45	CJR	156-60-5	
Trichloroethene	97.2	ppbv	6.1	60.48	06/17/11 23:15	DR1	79-01-6	C0, IS
Vinyl chloride	ND	ppbv	0.18	1.8	06/14/11 19:45	CJR	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10159593
Project Name: 02751.13 TPC-Soil Gas

Lab Sample No: 10159593008
Client Sample ID: SG-16

ProjSampleNum: 10159593008
Matrix: Air

Date Collected: 06/07/11 16:56
Date Received: 06/08/11 9:55

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
1,1,1-Trichloroethane	ND	ppbv	1.1	5.44	06/17/11 15:10 DR1	71-55-6	
1,1-Dichloroethane	ND	ppbv	1.1	5.44	06/17/11 15:10 DR1	75-34-3	
1,1-Dichloroethene	ND	ppbv	1.1	5.44	06/17/11 15:10 DR1	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.53	5.44	06/17/11 15:10 DR1	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	1.1	5.44	06/17/11 15:10 DR1	156-59-2	
Tetrachloroethene	ND	ppbv	0.54	5.44	06/17/11 15:10 DR1	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	1.1	5.44	06/17/11 15:10 DR1	156-60-5	
Trichloroethene	0.622	ppbv	0.55	5.44	06/17/11 15:10 DR1	79-01-6	
Vinyl chloride	ND	ppbv	0.54	5.44	06/17/11 15:10 DR1	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client:	RMT, INC	Lab Project Number:	10159593
Phone:	734-971-7080	Project Name:	02751.13 TPC-Soil Gas

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

[IS] The internal standard recovery associated with this result exceeds the lower control limit. The reported result should be considered an estimated value.

[C0] Result confirmed by second analysis.

10159593

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

03339

Page: 1 of 1

Section A Required Client Information:

Company: 1
Address: 3754 Ranchero Drive Ann Arbor MI 48108
Email To: stacy.metz@rmtinc.com
Phone: 734 9043335 Fax: 734 971 9022
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Stacy Metz
Copy To:
Purchase Order No.: —
Project Name: TPC - Soil Gas
Project Number: 02751.13

Section C Invoice Information:

Attention: Accounts Payable
Company Name: RMT Inc
Address: 744 Heartland Trl Madison WI
Pace Quote Reference: —
Pace Project Manager/Sales Rep. Carrolyne Trout
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☒ RCRA ☐ Other____

Location of Sampling by State: MI

Reporting Units: ug/m³ ___ mg/m³ ___ PPBV ☒ PPMV ___ Other ___

Report Level II.___ III.___ IV.☒ Other____

Section D Required Client Information

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start End/Grab DATE	TIME	Composite - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	SG-01	1LC	47	6/7/11	1045	6/7/11	1104	~~+25~~ 25	~~+2~~ +2	1105	FC168								X		10159593001
2	SG-04		38		1200		1220	28	+1	995	FC194										002
3	SG-13		68		1316		1340	27	-2	874	FC175										003
4	SG-11		113		1457		1511	28	0	891	FC183										004
5	SG-06		115		1526		1546	26	1	1134	FC282										005
6	SG-07		67		1607		1654	28	1	1147	FC087										006
7	DUP-01		—		—		—	—	—	881	FC191										007
8	SG-16		84		1636		1656	25	0	1137	FC246										008
9																					
10																					
11																					
12																					

Comments:

* Short list:
PCE, TCE, 1,1-DCE, 12-cis DCE, 1,2-trans DCE
Vinyl chloride; 1,1-DCA
1,2-DCA, 1,1,1-TCA.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Stacy Metz	6/7/11	1835	Fed Ex	6/7/11	1835
			[illegible] Pace	6/8/11	09:55

SAMPLE CONDITIONS

Amb	Y/N	Y/N	Y/N
Amb	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Stacy Metz
SIGNATURE of SAMPLER:
DATE Signed (MM / DD / YY): 06/07/11

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

AIR Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT Project # 1059593

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other_____

Tracking #: 8736 0847 4898

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 6-8-11 JK

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Media: AIR(CAN)				11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.

Samples Received: 8CANS, 8FC'S

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
SG-01	1105		FC0168				
SG-04	0995		FC0183				
SG-13	0874		FC0175				
SG-11	0891		FC0194				
SG-06	1134		FC0282				
SG-07	1147		FC0191				
Dup-01	0861		FC0246				
SG-16	1137		FC0087				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 06/09/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

July 11, 2011

Ms. Stacy Metz
RMT, INC
3754 Ranchero Dr.
Ann Arbor, MI 48108

RE: Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10161808

Dear Ms. Metz:
Enclosed are the analytical results for sample(s) received by the laboratory on June 28, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10161808

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10161808

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10161808001	**SG-05**	Air	06/27/11 10:27	06/28/11 10:10
10161808002	**SG-08**	Air	06/27/11 12:43	06/28/11 10:10
10161808003	**SG-09**	Air	06/27/11 13:12	06/28/11 10:10
10161808004	**SG-02**	Air	06/27/11 13:52	06/28/11 10:10
10161808005	**SG-03**	Air	06/27/11 14:38	06/28/11 10:10
10161808006	**1011**	Air		06/28/11 10:10

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SAMPLE ANALYTE COUNT

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10161808

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10161808001	**SG-05**	TO-15	DR1	9
10161808002	**SG-08**	TO-15	DR1	9
10161808003	**SG-09**	TO-15	DR1	9
10161808004	**SG-02**	TO-15	DR1	9
10161808005	**SG-03**	TO-15	DR1	9

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PROJECT NARRATIVE

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10161808

Method: **TO-15**
Description: TO15 MSV AIR
Client: RMT, INC
Date: July 11, 2011

General Information:
5 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: AIR/12644

A3: The sample was analyzed by serial dilution.

- SG-02 (Lab ID: 10161808004)
  - Tetrachloroethene
  - Trichloroethene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10161808

Sample: SG-05 **Lab ID: 10161808001** Collected: 06/27/11 10:27 Received: 06/28/11 10:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		07/08/11 16:11	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.71	1.74		07/08/11 16:11	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		07/08/11 16:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		07/08/11 16:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		07/08/11 16:11	156-60-5	
Tetrachloroethene	ND	ug/m3	1.2	1.74		07/08/11 16:11	127-18-4	
1,1,1-Trichloroethane	**12.3**	ug/m3	1.9	1.74		07/08/11 16:11	71-55-6	
Trichloroethene	**1.1**	ug/m3	0.96	1.74		07/08/11 16:11	79-01-6	
Vinyl chloride	ND	ug/m3	0.45	1.74		07/08/11 16:11	75-01-4	

Sample: SG-08 **Lab ID: 10161808002** Collected: 06/27/11 12:43 Received: 06/28/11 10:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		07/07/11 21:41	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.71	1.74		07/07/11 21:41	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		07/07/11 21:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		07/07/11 21:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		07/07/11 21:41	156-60-5	
Tetrachloroethene	ND	ug/m3	1.2	1.74		07/07/11 21:41	127-18-4	
1,1,1-Trichloroethane	**5.4**	ug/m3	1.9	1.74		07/07/11 21:41	71-55-6	
Trichloroethene	ND	ug/m3	0.96	1.74		07/07/11 21:41	79-01-6	
Vinyl chloride	ND	ug/m3	0.45	1.74		07/07/11 21:41	75-01-4	

Sample: SG-09 **Lab ID: 10161808003** Collected: 06/27/11 13:12 Received: 06/28/11 10:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	**22.3**	ug/m3	1.4	1.74		07/07/11 22:09	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.71	1.74		07/07/11 22:09	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		07/07/11 22:09	75-35-4	
cis-1,2-Dichloroethene	**5.5**	ug/m3	1.4	1.74		07/07/11 22:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		07/07/11 22:09	156-60-5	
Tetrachloroethene	ND	ug/m3	1.2	1.74		07/07/11 22:09	127-18-4	
1,1,1-Trichloroethane	**293**	ug/m3	1.9	1.74		07/07/11 22:09	71-55-6	
Trichloroethene	**250**	ug/m3	0.96	1.74		07/07/11 22:09	79-01-6	
Vinyl chloride	ND	ug/m3	0.45	1.74		07/07/11 22:09	75-01-4	

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ANALYTICAL RESULTS

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10161808

Sample: SG-02 **Lab ID: 10161808004** Collected: 06/27/11 13:52 Received: 06/28/11 10:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	**34.9**	ug/m3	28.5	34.8		07/07/11 22:38	75-34-3	
1,2-Dichloroethane	ND	ug/m3	14.3	34.8		07/07/11 22:38	107-06-2	
1,1-Dichloroethene	ND	ug/m3	28.2	34.8		07/07/11 22:38	75-35-4	
cis-1,2-Dichloroethene	**113**	ug/m3	28.2	34.8		07/07/11 22:38	156-59-2	
trans-1,2-Dichloroethene	**34.8**	ug/m3	28.2	34.8		07/07/11 22:38	156-60-5	
Tetrachloroethene	**8530**	ug/m3	384	556.8		07/08/11 15:24	127-18-4	A3
1,1,1-Trichloroethane	**5230**	ug/m3	38.3	34.8		07/07/11 22:38	71-55-6	
Trichloroethene	**21700**	ug/m3	306	556.8		07/08/11 15:24	79-01-6	A3
Vinyl chloride	ND	ug/m3	9.0	34.8		07/07/11 22:38	75-01-4	

Sample: SG-03 **Lab ID: 10161808005** Collected: 06/27/11 14:38 Received: 06/28/11 10:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1-Dichloroethane	ND	ug/m3	1.5	1.8		07/08/11 15:42	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.74	1.8		07/08/11 15:42	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.5	1.8		07/08/11 15:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.8		07/08/11 15:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.5	1.8		07/08/11 15:42	156-60-5	
Tetrachloroethene	**46.7**	ug/m3	1.2	1.8		07/08/11 15:42	127-18-4	
1,1,1-Trichloroethane	**26.4**	ug/m3	2.0	1.8		07/08/11 15:42	71-55-6	
Trichloroethene	**122**	ug/m3	0.99	1.8		07/08/11 15:42	79-01-6	
Vinyl chloride	ND	ug/m3	0.47	1.8		07/08/11 15:42	75-01-4	

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QUALITY CONTROL DATA

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10161808

QC Batch: AIR/12644 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10161808002, 10161808003, 10161808004

METHOD BLANK: 1008441 Matrix: Air
Associated Lab Samples: 10161808002, 10161808003, 10161808004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	07/07/11 08:54	
1,1-Dichloroethane	ug/m3	ND	0.82	07/07/11 08:54	
1,1-Dichloroethene	ug/m3	ND	0.81	07/07/11 08:54	
1,2-Dichloroethane	ug/m3	ND	0.41	07/07/11 08:54	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/07/11 08:54	
Tetrachloroethene	ug/m3	ND	0.69	07/07/11 08:54	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	07/07/11 08:54	
Trichloroethene	ug/m3	ND	0.55	07/07/11 08:54	
Vinyl chloride	ug/m3	ND	0.26	07/07/11 08:54	

LABORATORY CONTROL SAMPLE: 1008442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	51.2	92	66-133	
1,1-Dichloroethane	ug/m3	41.2	39.5	96	65-131	
1,1-Dichloroethene	ug/m3	40.3	38.5	95	65-132	
1,2-Dichloroethane	ug/m3	41.2	34.6	84	66-132	
cis-1,2-Dichloroethene	ug/m3	40.3	40.0	99	69-130	
Tetrachloroethene	ug/m3	69	63.4	92	64-142	
trans-1,2-Dichloroethene	ug/m3	40.3	38.9	96	64-132	
Trichloroethene	ug/m3	54.6	52.1	95	68-132	
Vinyl chloride	ug/m3	26	26.0	100	64-129	

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QUALITY CONTROL DATA

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10161808

QC Batch: AIR/12658 | Analysis Method: TO-15
QC Batch Method: TO-15 | Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10161808001, 10161808005

METHOD BLANK: 1009458 | Matrix: Air
Associated Lab Samples: 10161808001, 10161808005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	07/08/11 10:25	
1,1-Dichloroethane	ug/m3	ND	0.82	07/08/11 10:25	
1,1-Dichloroethene	ug/m3	ND	0.81	07/08/11 10:25	
1,2-Dichloroethane	ug/m3	ND	0.41	07/08/11 10:25	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/08/11 10:25	
Tetrachloroethene	ug/m3	ND	0.69	07/08/11 10:25	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	07/08/11 10:25	
Trichloroethene	ug/m3	ND	0.55	07/08/11 10:25	
Vinyl chloride	ug/m3	ND	0.26	07/08/11 10:25	

LABORATORY CONTROL SAMPLE: 1009459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	60.7	109	66-133	
1,1-Dichloroethane	ug/m3	41.2	44.2	107	65-131	
1,1-Dichloroethene	ug/m3	40.3	44.5	110	65-132	
1,2-Dichloroethane	ug/m3	41.2	40.5	98	66-132	
cis-1,2-Dichloroethene	ug/m3	40.3	41.4	103	69-130	
Tetrachloroethene	ug/m3	69	65.5	95	64-142	
trans-1,2-Dichloroethene	ug/m3	40.3	42.9	106	64-132	
Trichloroethene	ug/m3	54.6	55.8	102	68-132	
Vinyl chloride	ug/m3	26	28.4	109	64-129	

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QUALIFIERS

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10161808

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 02751.13 TPC-Soil Gas
Pace Project No.: 10161808

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10161808001	**SG-05**	TO-15	AIR/12658		
10161808002	**SG-08**	TO-15	AIR/12644		
10161808003	**SG-09**	TO-15	AIR/12644		
10161808004	**SG-02**	TO-15	AIR/12644		
10161808005	**SG-03**	TO-15	AIR/12658		

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10161808
Project Name: 02751.13 TPC-Soil Gas

Lab Sample No: 10161808001
Client Sample ID: SG-05

ProjSampleNum: 10161808001
Matrix: Air

Date Collected: 06/27/11 10:27
Date Received: 06/28/11 10:10

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	2.22	ppbv	0.34	1.74	07/08/11 16:11	DR1	71-55-6	
1,1-Dichloroethane	ND	ppbv	0.34	1.74	07/08/11 16:11	DR1	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.35	1.74	07/08/11 16:11	DR1	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.17	1.74	07/08/11 16:11	DR1	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.35	1.74	07/08/11 16:11	DR1	156-59-2	
Tetrachloroethene	ND	ppbv	0.17	1.74	07/08/11 16:11	DR1	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.35	1.74	07/08/11 16:11	DR1	156-60-5	
Trichloroethene	0.201	ppbv	0.18	1.74	07/08/11 16:11	DR1	79-01-6	
Vinyl chloride	ND	ppbv	0.17	1.74	07/08/11 16:11	DR1	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10161808
Project Name: 02751.13 TPC-Soil Gas

Lab Sample No: 10161808002
Client Sample ID: SG-08

ProjSampleNum: 10161808002
Matrix: Air

Date Collected: 06/27/11 12:43
Date Received: 06/28/11 10:10

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	0.974	ppbv	0.34	1.74	07/07/11 21:41	DR1	71-55-6	
1,1-Dichloroethane	ND	ppbv	0.34	1.74	07/07/11 21:41	DR1	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.35	1.74	07/07/11 21:41	DR1	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.17	1.74	07/07/11 21:41	DR1	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.35	1.74	07/07/11 21:41	DR1	156-59-2	
Tetrachloroethene	ND	ppbv	0.17	1.74	07/07/11 21:41	DR1	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.35	1.74	07/07/11 21:41	DR1	156-60-5	
Trichloroethene	ND	ppbv	0.18	1.74	07/07/11 21:41	DR1	79-01-6	
Vinyl chloride	ND	ppbv	0.17	1.74	07/07/11 21:41	DR1	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10161808
Project Name: 02751.13 TPC-Soil Gas

Lab Sample No: 10161808003
Client Sample ID: SG-09

ProjSampleNum: 10161808003
Matrix: Air

Date Collected: 06/27/11 13:12
Date Received: 06/28/11 10:10

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	52.8	ppbv	0.34	1.74	07/07/11 22:09	DR1	71-55-6	
1,1-Dichloroethane	5.42	ppbv	0.34	1.74	07/07/11 22:09	DR1	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.35	1.74	07/07/11 22:09	DR1	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.17	1.74	07/07/11 22:09	DR1	107-06-2	
cis-1,2-Dichloroethene	1.36	ppbv	0.35	1.74	07/07/11 22:09	DR1	156-59-2	
Tetrachloroethene	ND	ppbv	0.17	1.74	07/07/11 22:09	DR1	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.35	1.74	07/07/11 22:09	DR1	156-60-5	
Trichloroethene	45.8	ppbv	0.18	1.74	07/07/11 22:09	DR1	79-01-6	
Vinyl chloride	ND	ppbv	0.17	1.74	07/07/11 22:09	DR1	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10161808
Project Name: 02751.13 TPC-Soil Gas

Lab Sample No: 10161808004
Client Sample ID: SG-02

ProjSampleNum: 10161808004
Matrix: Air

Date Collected: 06/27/11 13:52
Date Received: 06/28/11 10:10

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	943	ppbv	6.9	34.8	07/07/11 22:38	DR1	71-55-6	
1,1-Dichloroethane	8.48	ppbv	6.9	34.8	07/07/11 22:38	DR1	75-34-3	
1,1-Dichloroethene	ND	ppbv	7	34.8	07/07/11 22:38	DR1	75-35-4	
1,2-Dichloroethane	ND	ppbv	3.5	34.8	07/07/11 22:38	DR1	107-06-2	
cis-1,2-Dichloroethene	28	ppbv	7	34.8	07/07/11 22:38	DR1	156-59-2	
Tetrachloroethene	1240	ppbv	56	556.8	07/08/11 15:24	DR1	127-18-4	A3
trans-1,2-Dichloroethene	8.63	ppbv	7	34.8	07/07/11 22:38	DR1	156-60-5	
Trichloroethene	3970	ppbv	56	556.8	07/08/11 15:24	DR1	79-01-6	A3
Vinyl chloride	ND	ppbv	3.5	34.8	07/07/11 22:38	DR1	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: RMT, INC
Phone: 734-971-7080

Lab Project Number: 10161808
Project Name: 02751.13 TPC-Soil Gas

Lab Sample No: 10161808005
Client Sample ID: SG-03

ProjSampleNum: 10161808005
Matrix: Air

Date Collected: 06/27/11 14:38
Date Received: 06/28/11 10:10

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
TO-15								
1,1,1-Trichloroethane	4.76	ppbv	0.36	1.8	07/08/11 15:42	DR1	71-55-6	
1,1-Dichloroethane	ND	ppbv	0.36	1.8	07/08/11 15:42	DR1	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.37	1.8	07/08/11 15:42	DR1	75-35-4	
1,2-Dichloroethane	ND	ppbv	0.18	1.8	07/08/11 15:42	DR1	107-06-2	
cis-1,2-Dichloroethene	ND	ppbv	0.37	1.8	07/08/11 15:42	DR1	156-59-2	
Tetrachloroethene	6.77	ppbv	0.17	1.8	07/08/11 15:42	DR1	127-18-4	
trans-1,2-Dichloroethene	ND	ppbv	0.37	1.8	07/08/11 15:42	DR1	156-60-5	
Trichloroethene	22.3	ppbv	0.18	1.8	07/08/11 15:42	DR1	79-01-6	
Vinyl chloride	ND	ppbv	0.18	1.8	07/08/11 15:42	DR1	75-01-4	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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Fax: 612.607.6444

ANALYTICAL RESULTS

Client:	RMT, INC	Lab Project Number:	10161808
Phone:	734-971-7080	Project Name:	02751.13 TPC-Soil Gas

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

[A3] The sample was analyzed by serial dilution.

10161808

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

03277

Page: 1 of 1

Section A Required Client Information:

Company: TRC
Address: 3754 Ranchero Dr Ann Arbor MI 48108
Email To: stacy.metz@rmtinc.com
Phone: 734 904 3325 Fax: 734 971 9022
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Stacy Metz
Copy To:
Purchase Order No.: —
Project Name: TPC - Soil Gas
Project Number: 02751.13

Section C Invoice Information:

Attention: Invoice Processing
Company Name: RMT
Address: 744 Heartland Trail Madison WI
Pace Quote Reference: —
Pace Project Manager/Sales Rep. Carolynne Trout
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☒ RCRA ☐ Other

Location of Sampling by State: MI

Reporting Units: ug/m³ mg/m³ PPBV ☒ PPMV Other

Report Level II. III. IV. ☒ Other

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

Section D Required Client Information — **AIR SAMPLE ID**
Sample IDs MUST BE UNIQUE

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED: COMPOSITE START END/GRAB DATE	TIME	COMPOSITE - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	SG-05	1LC	44	6/27/11	955	6/27	1027	27	0	1018	243									X	10161808001
2	SG-08		NM		1233		1243	27	0	1315	193									X	002
3	SG-09		NM		1255		1312	30	0	1333	104									X	003
4	SG-02		57		1325		1352	25	0	883	392									X	004
5	SG-03		NM		1408		1438	26	1	906	201									X	005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments:
Project Short List:
1,1-DCA; 1,1-DCE; cis-DCE
trans-DCE; 1,2-DCA; 1,1,1-TCA,
TCE, PCE, Vinyl Chloride

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Stacy Metz / TRC	6/27/11	1620	FedEx	6/27/11	1620
			[illegible]	6/28/11	10:10

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Stacy Metz
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM / DD / YY): 06/27/11

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

AIR Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT Project # 10161808

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other_____

Tracking #: 8746 3878 6053

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 6-28-11 [illegible]

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media: AIR (CAN)		11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.

Samples Received: 6 CANS, 6 FC'S

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
SG-05	1018		FC0243				
SG-08	1315		FC0193				
SG-09	1333		FC0104				
SG-02	0883		FC0392				
SG-03	0906		FC0201				
	1011		FC0425				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [illegible] **Date:** 6/29/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

H&P Mobile Geochemistry Inc.

13 October 2011

Ms. Stacy Metz
TRC Environmental - MI
3754 Ranchero Drive
Ann Arbor, MI 48108

H&P Project: TRC093011-11
Client Project: 004308.0000.0000 / Tecumseh, MI

Dear Ms. Stacy Metz:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 30-Sep-11 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

J Villarreal

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. operates under CA Environmental Lab Accreditation Program Numbers 2579, 2740, 2741, 2742, 2743, 2745 and 2754. National Environmental Laboratory Accreditation Conference (NELAC) Standards Lab #11845

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TRC Environmental - MI 3754 Ranchero Drive Ann Arbor, MI 48108	Project: TRC093011-11 Project Number: 004308.0000.0000 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 13-Oct-11 13:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG-13	E110004-01	Vapor	28-Sep-11	30-Sep-11
SG-01	E110004-02	Vapor	28-Sep-11	30-Sep-11
SG-10	E110004-03	Vapor	28-Sep-11	30-Sep-11
SG-11	E110004-04	Vapor	28-Sep-11	30-Sep-11
SG-05	E110004-05	Vapor	28-Sep-11	30-Sep-11
SG-02	E110004-06	Vapor	28-Sep-11	30-Sep-11
SG-03	E110004-07	Vapor	28-Sep-11	30-Sep-11
SG-04	E110004-08	Vapor	28-Sep-11	30-Sep-11
SG-08	E110004-09	Vapor	28-Sep-11	30-Sep-11
DUP-01	E110004-10	Vapor	28-Sep-11	30-Sep-11
SG-09	E110004-11	Vapor	28-Sep-11	30-Sep-11
SG-06	E110004-12	Vapor	28-Sep-11	30-Sep-11
SG-07	E110004-13	Vapor	28-Sep-11	30-Sep-11
SG-16	E110004-14	Vapor	28-Sep-11	30-Sep-11

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TRC Environmental - MI 3754 Ranchero Drive Ann Arbor, MI 48108	Project: TRC093011-11 Project Number: 004308.0000.0000 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 13-Oct-11 13:31

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-13 (E110004-01) Vapor Sampled: 28-Sep-11 Received: 30-Sep-11									
Vinyl chloride	ND	2.6	ug/m3	1	EJ11002	07-Oct-11	07-Oct-11	EPA TO-15	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**41**	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	**4.7**	4.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**25**	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92.5 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.9 %*	*77-127*		"	"	"	"	
SG-01 (E110004-02) Vapor Sampled: 28-Sep-11 Received: 30-Sep-11									
Vinyl chloride	ND	260	ug/m3	100	EJ11002	07-Oct-11	07-Oct-11	EPA TO-15	
1,1-Dichloroethene	ND	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	800	"	"	"	"	"	"	
1,1-Dichloroethane	ND	410	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**880**	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	**24000**	550	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	410	"	"	"	"	"	"	
Trichloroethene	**100000**	550	"	"	"	"	"	"	
Tetrachloroethene	**1000**	690	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*93.5 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.5 %*	*77-127*		"	"	"	"	

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TRC Environmental - MI 3754 Ranchero Drive Ann Arbor, MI 48108	Project: TRC093011-11 Project Number: 004308.0000.0000 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 13-Oct-11 13:31

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-10 (E110004-03) Vapor Sampled: 28-Sep-11 Received: 30-Sep-11									
Vinyl chloride	ND	2.6	ug/m3	1	EJ11002	07-Oct-11	07-Oct-11	EPA TO-15	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**7.9**	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Trichloroethene	**100**	5.5	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94.7 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.6 %*		*77-127*	"	"	"	"	
SG-11 (E110004-04) Vapor Sampled: 28-Sep-11 Received: 30-Sep-11									
Vinyl chloride	ND	2.6	ug/m3	1	EJ11002	07-Oct-11	07-Oct-11	EPA TO-15	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*93.2 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.8 %*		*77-127*	"	"	"	"	

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TRC Environmental - MI 3754 Ranchero Drive Ann Arbor, MI 48108	Project: TRC093011-11 Project Number: 004308.0000.0000 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 13-Oct-11 13:31

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-05 (E110004-05) Vapor Sampled: 28-Sep-11 Received: 30-Sep-11									
Vinyl chloride	ND	2.6	ug/m3	1	EJ11002	07-Oct-11	07-Oct-11	EPA TO-15	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**11**	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Trichloroethene	**5.9**	5.5	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*91.5 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*		*77-127*	"	"	"	"	
SG-02 (E110004-06) Vapor Sampled: 28-Sep-11 Received: 30-Sep-11									
Vinyl chloride	ND	13	ug/m3	5	EJ11005	10-Oct-11	10-Oct-11	EPA TO-15	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	21	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**24**	20	"	"	"	"	"	"	
1,1,1-Trichloroethane	**1300**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Trichloroethene	**3000**	27	"	"	"	"	"	"	
Tetrachloroethene	**7700**	34	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.1 %*		*77-127*	"	"	"	"	

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TRC Environmental - MI 3754 Ranchero Drive Ann Arbor, MI 48108	Project: TRC093011-11 Project Number: 004308.0000.0000 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 13-Oct-11 13:31

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-03 (E110004-07) Vapor Sampled: 28-Sep-11 Received: 30-Sep-11									
Vinyl chloride	ND	5.1	ug/m3	2	EJ11002	07-Oct-11	07-Oct-11	EPA TO-15	
1,1-Dichloroethene	ND	8.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	16	"	"	"	"	"	"	
1,1-Dichloroethane	**12**	8.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	11	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	8.2	"	"	"	"	"	"	
Trichloroethene	ND	11	"	"	"	"	"	"	
Tetrachloroethene	ND	14	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94.1 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.9 %*	*77-127*		"	"	"	"	
SG-04 (E110004-08) Vapor Sampled: 28-Sep-11 Received: 30-Sep-11									
Vinyl chloride	ND	2.6	ug/m3	1	EJ11002	07-Oct-11	08-Oct-11	EPA TO-15	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Tetrachloroethene	**12**	6.9	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94.6 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*99.6 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.6 %*	*77-127*		"	"	"	"	

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TRC Environmental - MI 3754 Ranchero Drive Ann Arbor, MI 48108	Project: TRC093011-11 Project Number: 004308.0000.0000 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 13-Oct-11 13:31

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-08 (E110004-09) Vapor Sampled: 28-Sep-11 Received: 30-Sep-11									
Vinyl chloride	ND	2.6	ug/m3	1	EJ11002	07-Oct-11	08-Oct-11	EPA TO-15	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**11**	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.8 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*98.4 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*	*77-127*		"	"	"	"	
DUP-01 (E110004-10) Vapor Sampled: 28-Sep-11 Received: 30-Sep-11									
Vinyl chloride	ND	260	ug/m3	100	EJ11002	07-Oct-11	08-Oct-11	EPA TO-15	
1,1-Dichloroethene	ND	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	800	"	"	"	"	"	"	
1,1-Dichloroethane	ND	410	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1100**	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	**32000**	550	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	410	"	"	"	"	"	"	
Trichloroethene	**150000**	1100	"	200	"	"	10-Oct-11	"	
Tetrachloroethene	**1400**	690	"	100	"	"	08-Oct-11	"	
Surrogate: 1,2-Dichloroethane-d4		*94.0 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*99.5 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.1 %*	*77-127*		"	"	"	"	

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TRC Environmental - MI 3754 Ranchero Drive Ann Arbor, MI 48108	Project: TRC093011-11 Project Number: 004308.0000.0000 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 13-Oct-11 13:31

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-09 (E110004-11) Vapor Sampled: 28-Sep-11 Received: 30-Sep-11									
Vinyl chloride	ND	2.6	ug/m3	1	EJ11002	07-Oct-11	08-Oct-11	EPA TO-15	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	**6.8**	4.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**73**	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Trichloroethene	**43**	5.5	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*77-127*		"	"	"	"	
SG-06 (E110004-12) Vapor Sampled: 28-Sep-11 Received: 30-Sep-11									
Vinyl chloride	ND	5.1	ug/m3	2	EJ11002	07-Oct-11	08-Oct-11	EPA TO-15	
1,1-Dichloroethene	ND	8.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**26**	16	"	"	"	"	"	"	
1,1-Dichloroethane	**15**	8.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**140**	8.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**43**	11	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	8.2	"	"	"	"	"	"	
Trichloroethene	**820**	11	"	"	"	"	"	"	
Tetrachloroethene	**110**	14	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*93.4 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.7 %*	*77-127*		"	"	"	"	

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TRC Environmental - MI 3754 Ranchero Drive Ann Arbor, MI 48108	Project: TRC093011-11 Project Number: 004308.0000.0000 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 13-Oct-11 13:31

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-07 (E110004-13) Vapor Sampled: 28-Sep-11 Received: 30-Sep-11									
Vinyl chloride	ND	2.6	ug/m3	1	EJ11002	07-Oct-11	08-Oct-11	EPA TO-15	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**89**	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Trichloroethene	**1400**	27	"	5	"	"	10-Oct-11	"	
Tetrachloroethene	**530**	6.9	"	1	"	"	08-Oct-11	"	
Surrogate: 1,2-Dichloroethane-d4		*95.5 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*99.1 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.7 %*		*77-127*	"	"	"	"	
SG-16 (E110004-14) Vapor Sampled: 28-Sep-11 Received: 30-Sep-11									
Vinyl chloride	ND	2.6	ug/m3	1	EJ11002	07-Oct-11	08-Oct-11	EPA TO-15	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**13**	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Trichloroethene	**150**	5.5	"	"	"	"	"	"	
Tetrachloroethene	**51**	6.9	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.1 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.5 %*		*77-127*	"	"	"	"	

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TRC Environmental - MI 3754 Ranchero Drive Ann Arbor, MI 48108	Project: TRC093011-11 Project Number: 004308.0000.0000 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 13-Oct-11 13:31

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ11002 - TO-15										
Blank (EJ11002-BLK1)				Prepared & Analyzed: 07-Oct-11						
Vinyl chloride	ND	2.6	ug/m3							
1,1-Dichloroethene	ND	4.0	"							
trans-1,2-Dichloroethene	ND	8.0	"							
1,1-Dichloroethane	ND	4.1	"							
cis-1,2-Dichloroethene	ND	4.0	"							
1,1,1-Trichloroethane	ND	5.5	"							
1,2-Dichloroethane (EDC)	ND	4.1	"							
Trichloroethene	ND	5.5	"							
Tetrachloroethene	ND	6.9	"							
Surrogate: 1,2-Dichloroethane-d4	*213*		*"*	*214*		*99.5*	*76-134*			
Surrogate: Toluene-d8	*200*		*"*	*207*		*96.6*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*340*		*"*	*365*		*93.4*	*77-127*			
LCS (EJ11002-BS1)				Prepared & Analyzed: 07-Oct-11						
Vinyl chloride	40	2.6	ug/m3	52.0		76.1	65-135			
1,1-Dichloroethene	71	4.0	"	80.8		87.9	65-135			
trans-1,2-Dichloroethene	62	8.0	"	80.8		77.3	65-135			
1,1-Dichloroethane	66	4.1	"	82.4		80.1	65-135			
cis-1,2-Dichloroethene	64	4.0	"	80.0		79.8	65-135			
1,1,1-Trichloroethane	94	5.5	"	111		84.8	65-135			
1,2-Dichloroethane (EDC)	63	4.1	"	82.4		76.5	65-135			
Trichloroethene	100	5.5	"	110		91.0	65-135			
Tetrachloroethene	130	6.9	"	138		94.9	65-135			
Surrogate: 1,2-Dichloroethane-d4	*192*		*"*	*214*		*89.7*	*76-134*			
Surrogate: Toluene-d8	*202*		*"*	*207*		*97.6*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*374*		*"*	*365*		*102*	*77-127*			
LCS Dup (EJ11002-BSD1)				Prepared & Analyzed: 07-Oct-11						
Vinyl chloride	45	2.6	ug/m3	52.0		86.8	65-135	13.2	35	
1,1-Dichloroethene	78	4.0	"	80.8		96.2	65-135	9.09	35	
trans-1,2-Dichloroethene	67	8.0	"	80.8		83.3	65-135	7.43	35	

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TRC Environmental - MI 3754 Ranchero Drive Ann Arbor, MI 48108	Project: TRC093011-11 Project Number: 004308.0000.0000 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 13-Oct-11 13:31

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ11002 - TO-15										
LCS Dup (EJ11002-BSD1)				Prepared & Analyzed: 07-Oct-11						
1,1-Dichloroethane	68	4.1	ug/m3	82.4		83.0	65-135	3.61	35	
cis-1,2-Dichloroethene	67	4.0	"	80.0		84.3	65-135	5.51	35	
1,1,1-Trichloroethane	86	5.5	"	111		77.3	65-135	9.24	35	
1,2-Dichloroethane (EDC)	66	4.1	"	82.4		79.8	65-135	4.21	35	
Trichloroethene	110	5.5	"	110		97.0	65-135	6.40	35	
Tetrachloroethene	130	6.9	"	138		95.1	65-135	0.262	35	
Surrogate: 1,2-Dichloroethane-d4	*213*		*"*	*214*		*99.2*	*76-134*			
Surrogate: Toluene-d8	*203*		*"*	*207*		*97.8*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*361*		*"*	*365*		*99.0*	*77-127*			
Batch EJ11005 - TO-15										
Blank (EJ11005-BLK1)				Prepared & Analyzed: 10-Oct-11						
Vinyl chloride	ND	2.6	ug/m3							
1,1-Dichloroethene	ND	4.0	"							
trans-1,2-Dichloroethene	ND	8.0	"							
1,1-Dichloroethane	ND	4.1	"							
cis-1,2-Dichloroethene	ND	4.0	"							
1,1,1-Trichloroethane	ND	5.5	"							
1,2-Dichloroethane (EDC)	ND	4.1	"							
Trichloroethene	ND	5.5	"							
Tetrachloroethene	ND	6.9	"							
Surrogate: 1,2-Dichloroethane-d4	*215*		*"*	*214*		*100*	*76-134*			
Surrogate: Toluene-d8	*203*		*"*	*207*		*98.0*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*372*		*"*	*365*		*102*	*77-127*			
LCS (EJ11005-BS1)				Prepared & Analyzed: 10-Oct-11						
Vinyl chloride	43	2.6	ug/m3	52.0		83.5	65-135			
1,1-Dichloroethene	75	4.0	"	80.8		92.4	65-135			
trans-1,2-Dichloroethene	72	8.0	"	80.8		89.4	65-135			
1,1-Dichloroethane	69	4.1	"	82.4		84.0	65-135			
cis-1,2-Dichloroethene	68	4.0	"	80.0		84.8	65-135			

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TRC Environmental - MI 3754 Ranchero Drive Ann Arbor, MI 48108	Project: TRC093011-11 Project Number: 004308.0000.0000 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 13-Oct-11 13:31

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ11005 - TO-15										
LCS (EJ11005-BS1)				Prepared & Analyzed: 10-Oct-11						
1,1,1-Trichloroethane	89	5.5	ug/m3	111		79.9	65-135			
1,2-Dichloroethane (EDC)	67	4.1	"	82.4		81.5	65-135			
Trichloroethene	97	5.5	"	110		88.4	65-135			
Tetrachloroethene	110	6.9	"	138		81.4	65-135			
Surrogate: 1,2-Dichloroethane-d4	*213*		*"*	*214*		*99.2*	*76-134*			
Surrogate: Toluene-d8	*201*		*"*	*207*		*96.9*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*373*		*"*	*365*		*102*	*77-127*			
LCS Dup (EJ11005-BSD1)				Prepared & Analyzed: 10-Oct-11						
Vinyl chloride	40	2.6	ug/m3	52.0		76.8	65-135	8.33	35	
1,1-Dichloroethene	72	4.0	"	80.8		89.2	65-135	3.45	35	
trans-1,2-Dichloroethene	73	8.0	"	80.8		90.9	65-135	1.71	35	
1,1-Dichloroethane	73	4.1	"	82.4		88.7	65-135	5.43	35	
cis-1,2-Dichloroethene	69	4.0	"	80.0		86.7	65-135	2.23	35	
1,1,1-Trichloroethane	92	5.5	"	111		82.3	65-135	3.00	35	
1,2-Dichloroethane (EDC)	74	4.1	"	82.4		89.7	65-135	9.60	35	
Trichloroethene	96	5.5	"	110		87.5	65-135	0.961	35	
Tetrachloroethene	120	6.9	"	138		85.1	65-135	4.42	35	
Surrogate: 1,2-Dichloroethane-d4	*210*		*"*	*214*		*98.2*	*76-134*			
Surrogate: Toluene-d8	*200*		*"*	*207*		*96.6*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*378*		*"*	*365*		*104*	*77-127*			

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Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the Environmental Laboratory Accreditation Program (CA) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste for the following methods:

Certificate# 2741, 2743, 2579, 2754 & 2740 approved for EPA 8260 and LUFT GC/MS
Certificate# 2742, 2745, & 2741 approved for LUFT
Certificate# 2745 & 2742 approved for EPA 418.1

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the National Environmental Accreditation Conference Standards for the category Environmental Analysis Air and Emissions for the following analytes and methods:

1,2,4-Trichlorobenzene by EPA TO-15 & TO-14A
Hexachlorobutadiene by EPA TO-15 & TO-14A
1,2,4-Trimethylbenzene by EPA TO -14A
1,2-Dichlorobenzene by EPA TO-15 & TO-14A
1,3,5-Trimethylbenzene by EPA TO -14A
1,4-Dichlorobenzene by EPA TO-15 & TO-14A
Benzene by EPA TO-15 & TO-14A
Chlorobenzene by EPA TO-15 & TO-14A
Ethyl benzene by EPA TO-15 & TO-14A
Styrene by EPA TO-15 & TO-14A
Toluene by EPA TO-15 & TO-14A
Total Xylenes by EPA TO-15 & TO-14A
1,1,1-Trichloroethane by EPA TO-15 & TO-14A
1,1,2,2-Tetrachloroethane by EPA TO-15 & TO-14A
1,1,2-Trichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethene by EPA TO-15 & TO-14A
1,2-Dichloroethane by EPA TO-15 & TO-14A
1,2-Dichloropropane by EPA TO-15 & TO-14A
Bromoform by EPA TO-15
Bromomethane by EPA TO-15 & TO-14A
Carbon tetrachloride by EPA TO-15 & TO-14A
Chloroethane by EPA TO-15
Chloroform by EPA TO-15 & TO-14A
Chloromethane by EPA TO-15 & TO-14A
cis-1,2-Dichloroethene by EPA TO-15
cis-1,2-Dichloropropene by EPA TO-15 & TO-14A
Methylene chloride by EPA TO -15 & TO-14A
Tetrachloroethane by EPA TO-15 & TO-14A
trans-1,2-Dichloroethene by EPA TO-15
trans-1,2-Dichloropropene by EPA TO-15 & TO-14A
Trichloroethene by EPA TO-15 & TO-14A
Vinyl chloride by EPA TO -15 & TO-14A
2-Butanone by EPA TO-15
4-Methyl-2-Pentanone by EPA TO-15
Hexane by EPA TO-15
Methyl tert-butyl ether by EPA TO-15
Vinyl acetate by EPA TO-15

This certification applies to samples analyzed in summa canisters.

Chain of Custody Record

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Date:
H&P Project # TRC093011-11
Outside Lab:

Client: TRC Environmental
Address: 3754 Ranchero Drive
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Email: smetz@trcsolutions.com

Collector: J. Bacon
Client Project # Tecumseh Prod Co. 004358.0000.0000
Location: Tecumseh, Michigan
Phone: 734 971 7080 Fax: 734 971 9022

Page: 1 of
Project Contact: Stacy Metz
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☐ No ☐

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☑ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☑ N/A
Temperature: RT

Special Instructions: Level 4 Reporting required.
* see VOCs list

UPS TRACK# 1Z 93T T61 84 4176 7515 - Box 1
Lab Work Order # 1Z 93T T61 84 4246 1129 - Box 2

E110004

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List CAM	8260B VAC ☐ BTEX/OXY ☐ TPH gas	8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: ~~Full List~~ ☒ 8260B ☒ TO-15	VOC's: Short List/DTSC ☐ 8260B ☐ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ____ ☐ 8260B ☐ TO-15	Leak Check Compound ☐ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2	PCE, TCE, cis 1,2 DCE, trans 1,2 DCE	Vinyl Chloride, 111 TCA, 11 DCA, 12 DCA
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS												
SG-13	SG-13	—	1047	9/28/11	Soil Gas	Silteck	1	351	-1.7			X											✓	✓
SG-01	SG-01	—	1137	↓	↓	↓	1	400	-1.3			X											✓	✓
SG-10	SG-10	—	1234				1	198	-1.2			X											✓	✓
SG-11	SG-11	—	1257				1	405	-.7			X											✓	✓
SG-05	SG-05	—	1330				1	385	-1.0			X											✓	✓
SG-02	SG-02	—	1358				1	194	-1.5			X											✓	✓
SG-03	SG-03	—	1430				1	187	-22.9			X											✓	✓
SG-04	SG-04	—	1451				1	181	-.9			X											✓	✓
SG-08	SG-08	—	1520				1	191	-1.3			X											✓	✓
DUP-01	DUP-01	—	—	↓	↓	↓	1	371	-.8			X											✓	✓

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
[signature]	TRC ENV. CORP.	[signature]	H&P	9-30-11	1010

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

H&P Mobile Geochemistry Inc.

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☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date:
H&P Project # TRC093011-11
Outside Lab:

Client: TRC Env. Corp
Address: 3754 Ranchero Dr. Ann Arbor MI 48108
Email: smetz@trcsolutions.com

Collector: J. BACON
Client Project # 004308.0000.0000 TRC Tecumseh
Location: Tecumseh Michigan
Phone: 734 971 7080 Fax: 734 971 9022

Page: 2 of

Project Contact: Stacy Metz
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☐ No ☐

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☑ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☑ N/A
Temperature: RT

Special Instructions: Level 4 reporting required

Lab Work Order # E110004

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	~~8260B Full List~~ CAN #	~~8260B~~ VAC #	8015M TPH	418.1 TRPH	VOC's: ~~Full List~~ 8260B ☒ TO-15	VOC's: Short List/DTSC ☐ 8260B ☐ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ☐ 8260B ☐ TO-15	Leak Check Compound ☐ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2	PCE, TCE, c,t 12 DCE, trans 12 DCE, Vinyl Chloride, 111TCA, 11DCA, 12DCA
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS											
SG-09	SG-09	—	1547	9/28/11	SoilGas	Siltek	1	361	-10.4			X											✓
SG-06	SG-06	—	1610	↓	↓	↓	1	185	-1.2			X											✓
SG-07	SG-07	—	1619				1	393	-.6			X											✓
SG-16	SG-16	—	1633				1	401	-.5			X											✓

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
	TRC ENV CORP.		H&P	9/30/11	1010
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

H&P Mobile Geochemistry Inc.

14 December 2011

Ms. Stacy Metz
TRC Environmental - MI
1540 Eisenhower Place
Ann Arbor, MI 48108

H&P Project: TRC112311-11
Client Project: 004308 / Tecumseh, MI

Dear Ms. Stacy Metz:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 23-Nov-11 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

J Villarreal

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. operates under CA Environmental Lab Accreditation Program Numbers 2579, 2740, 2741, 2742, 2743, 2745 and 2754. National Environmental Laboratory Accreditation Conference (NELAC) Standards Lab #11845

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG-12	E111089-01	Vapor	21-Nov-11	23-Nov-11
SG-13	E111089-02	Vapor	21-Nov-11	23-Nov-11
SG-16	E111089-03	Vapor	21-Nov-11	23-Nov-11
SG-10	E111089-04	Vapor	21-Nov-11	23-Nov-11
SG-11	E111089-05	Vapor	21-Nov-11	23-Nov-11
SG-15	E111089-06	Vapor	21-Nov-11	23-Nov-11
SG-06	E111089-07	Vapor	21-Nov-11	23-Nov-11
SG-07	E111089-08	Vapor	21-Nov-11	23-Nov-11
SG-02	E111089-09	Vapor	21-Nov-11	23-Nov-11
SG-03	E111089-10	Vapor	21-Nov-11	23-Nov-11
SG-04	E111089-11	Vapor	21-Nov-11	23-Nov-11
SG-08	E111089-12	Vapor	21-Nov-11	23-Nov-11
SG-09	E111089-13	Vapor	21-Nov-11	23-Nov-11
SG-05	E111089-14	Vapor	21-Nov-11	23-Nov-11
SG-01	E111089-15	Vapor	21-Nov-11	23-Nov-11
DUP-01	E111089-16	Vapor	21-Nov-11	23-Nov-11

The recovery for the internal standard, Bromochloromethane, fell slightly below the acceptance range for the Initial Calibration average in sample Dup-01 (x5 dilution). It did, however, meet the acceptance range for Bromochloromethane when compared with the daily calibration.

The 1,1-Difluoroethane concentrations have been reported from EPA Method 8260 for the following samples:
SG-12
SG-03
SG-04
SG-05
SG-01

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-12 (E111089-01) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
Vinyl chloride	ND	1.0	ppbv	1	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*77-127*		"	"	"	"	
SG-13 (E111089-02) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	
Vinyl chloride	ND	1.0	ppbv	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**4.0**	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	**1.9**	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2.0**	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*77-127*		"	"	"	"	

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-16 (E111089-03) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	A
Vinyl chloride	**1.1**	1.0	ppbv	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*106 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.3 %*	*77-127*		"	"	"	"	
SG-10 (E111089-04) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	A
Vinyl chloride	ND	1.0	ppbv	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**19**	1.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**56**	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*77-127*		"	"	"	"	

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-11 (E111089-05) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	A
Vinyl chloride	ND	1.0	ppbv	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**6.8**	1.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**18**	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*77-127*		"	"	"	"	
SG-15 (E111089-06) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	A
Vinyl chloride	ND	1.0	ppbv	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**10**	1.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**30**	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.8 %*	*77-127*		"	"	"	"	

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-06 (E111089-07) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	A
Vinyl chloride	**1.1**	1.0	ppbv	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**2.6**	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	**2.2**	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**9.2**	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**5.1**	1.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**29**	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.6 %*	*77-127*		"	"	"	"	
SG-07 (E111089-08) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	
Vinyl chloride	**1.5**	1.0	ppbv	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**2.7**	1.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**3.1**	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.7 %*	*77-127*		"	"	"	"	

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-02 (E111089-09) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	
Vinyl chloride	**1.1**	1.0	ppbv	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**2.5**	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	**2.3**	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2.6**	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**120**	1.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**310**	1.0	"	"	"	"	"	"	
Tetrachloroethene	**400**	5.0	"	5	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.4 %*	*77-127*		"	"	"	"	
SG-03 (E111089-10) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
Vinyl chloride	**1.8**	1.0	ppbv	1	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	**3.5**	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*77-127*		"	"	"	"	

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-04 (E111089-11) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
Vinyl chloride	**2.4**	1.0	ppbv	1	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*77-127*		"	"	"	"	
SG-08 (E111089-12) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	
Vinyl chloride	**1.0**	1.0	ppbv	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**6.9**	1.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**1.3**	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.9 %*	*77-127*		"	"	"	"	

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-09 (E111089-13) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	
Vinyl chloride	ND	1.0	ppbv	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	**3.8**	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**32**	1.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**9.1**	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*77-127*		"	"	"	"	
SG-05 (E111089-14) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
Vinyl chloride	ND	1.0	ppbv	1	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*79.6 %*	*76-134*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*78-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*77-127*		"	"	"	"	

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-01 (E111089-15) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
Vinyl chloride	ND	5.0	ppbv	5	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	
1,1-Dichloroethene	**7.4**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**39**	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**1300**	5.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	5.0	"	"	"	"	"	"	
Trichloroethene	**7900**	100	"	100	"	"	"	"	
Tetrachloroethene	**24**	5.0	"	5	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.5 %*		*77-127*	"	"	"	"	
DUP-01 (E111089-16) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	**51**	10	ug/l	100	EK13004	29-Nov-11	29-Nov-11	EPA TO-15	
Vinyl chloride	ND	5.0	ppbv	5	"	"	"	"	
1,1-Dichloroethene	**9.9**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
1,1-Dichloroethane	**22**	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**48**	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**1700**	5.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	5.0	"	"	"	"	"	"	
Trichloroethene	**8500**	100	"	100	"	"	"	"	
Tetrachloroethene	**25**	5.0	"	5	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*120 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*78-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.9 %*		*77-127*	"	"	"	"	

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG-12 (E111089-01) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	**40**	10	ug/l	1	EL10106	30-Nov-11	30-Nov-11	EPA 8260B	
SG-03 (E111089-10) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	**12**	10	ug/l	1	EL10106	30-Nov-11	30-Nov-11	EPA 8260B	
SG-04 (E111089-11) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	**340**	10	ug/l	1	EL10106	30-Nov-11	30-Nov-11	EPA 8260B	
SG-05 (E111089-14) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	**18**	10	ug/l	1	EL10106	30-Nov-11	30-Nov-11	EPA 8260B	
SG-01 (E111089-15) Vapor Sampled: 21-Nov-11 Received: 23-Nov-11									
1,1-Difluoroethane (LCC)	**6000**	10	ug/l	1	EL10106	30-Nov-11	30-Nov-11	EPA 8260B	E

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK13004 - TO-15										
Blank (EK13004-BLK1)				Prepared & Analyzed: 29-Nov-11						
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Vinyl chloride	ND	1.0	ppbv							
1,1-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	2.0	"							
1,1-Dichloroethane	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
1,2-Dichloroethane (EDC)	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	*52.8*		*"*	*50.2*		*105*	*76-134*			
Surrogate: Toluene-d8	*50.8*		*"*	*49.8*		*102*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*50.2*		*"*	*50.2*		*99.9*	*77-127*			
LCS (EK13004-BS1)				Prepared & Analyzed: 29-Nov-11						
Vinyl chloride	8.1	1.0	ppbv	10.1		80.2	65-135			
1,1-Dichloroethene	8.1	1.0	"	10.0		81.1	65-135			
trans-1,2-Dichloroethene	8.4	2.0	"	10.1		83.1	65-135			
1,1-Dichloroethane	8.2	1.0	"	10.0		81.8	65-135			
cis-1,2-Dichloroethene	7.1	1.0	"	9.95		71.6	65-135			
1,1,1-Trichloroethane	9.4	1.0	"	10.1		93.5	65-135			
1,2-Dichloroethane (EDC)	9.0	1.0	"	10.0		89.4	65-135			
Trichloroethene	9.1	1.0	"	10.1		90.2	65-135			
Tetrachloroethene	8.7	1.0	"	10.1		86.1	65-135			
Surrogate: 1,2-Dichloroethane-d4	*52.7*		*"*	*50.2*		*105*	*76-134*			
Surrogate: Toluene-d8	*50.9*		*"*	*49.8*		*102*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*52.1*		*"*	*50.2*		*104*	*77-127*			

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK13004 - TO-15										
LCS Dup (EK13004-BSD1)				Prepared & Analyzed: 29-Nov-11						
Vinyl chloride	8.2	1.0	ppbv	10.1		80.7	65-135	0.688	35	
1,1-Dichloroethene	8.0	1.0	"	10.0		79.9	65-135	1.53	35	
trans-1,2-Dichloroethene	7.9	2.0	"	10.1		78.8	65-135	5.33	35	
1,1-Dichloroethane	7.8	1.0	"	10.0		77.4	65-135	5.42	35	
cis-1,2-Dichloroethene	7.0	1.0	"	9.95		70.7	65-135	1.24	35	
1,1,1-Trichloroethane	8.8	1.0	"	10.1		87.7	65-135	6.33	35	
1,2-Dichloroethane (EDC)	9.0	1.0	"	10.0		89.9	65-135	0.522	35	
Trichloroethene	9.1	1.0	"	10.1		90.4	65-135	0.187	35	
Tetrachloroethene	8.5	1.0	"	10.1		84.1	65-135	2.37	35	
Surrogate: 1,2-Dichloroethane-d4	*51.4*		*"*	*50.2*		*102*	*76-134*			
Surrogate: Toluene-d8	*50.3*		*"*	*49.8*		*101*	*78-125*			
Surrogate: 4-Bromofluorobenzene	*52.4*		*"*	*50.2*		*104*	*77-127*			

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

Volatile Organic Compounds by EPA Method 8260B Modified - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL10106 - EPA 5030										
Blank (EL10106-BLK1)				Prepared & Analyzed: 30-Nov-11						
1,1-Difluoroethane (LCC)	ND	10	ug/l							

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

Notes and Definitions

E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
A	Analytical result confirmed by EPA Method 8260.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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TRC Environmental - MI 1540 Eisenhower Place Ann Arbor, MI 48108	Project: TRC112311-11 Project Number: 004308 / Tecumseh, MI Project Manager: Ms. Stacy Metz	Reported: 14-Dec-11 12:44

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the Environmental Laboratory Accreditation Program (CA) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste for the following methods:

Certificate# 2741, 2743, 2579, 2754 & 2740 approved for EPA 8260 and LUFT GC/MS
Certificate# 2742, 2745, & 2741 approved for LUFT
Certificate# 2745 & 2742 approved for EPA 418.1

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the National Environmental Accreditation Conference Standards for the category Environmental Analysis Air and Emissions for the following analytes and methods:

1,2,4-Trichlorobenzene by EPA TO-15 & TO-14A
Hexachlorobutadiene by EPA TO-15 & TO-14A
1,2,4-Trimethylbenzene by EPA TO -14A
1,2-Dichlorobenzene by EPA TO-15 & TO-14A
1,3,5-Trimethylbenzene by EPA TO -14A
1,4-Dichlorobenzene by EPA TO-15 & TO-14A
Benzene by EPA TO-15 & TO-14A
Chlorobenzene by EPA TO-15 & TO-14A
Ethyl benzene by EPA TO-15 & TO-14A
Styrene by EPA TO-15 & TO-14A
Toluene by EPA TO-15 & TO-14A
Total Xylenes by EPA TO-15 & TO-14A
1,1,1-Trichloroethane by EPA TO-15 & TO-14A
1,1,2,2-Tetrachloroethane by EPA TO-15 & TO-14A
1,1,2-Trichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethene by EPA TO-15 & TO-14A
1,2-Dichloroethane by EPA TO-15 & TO-14A
1,2-Dichloropropane by EPA TO-15 & TO-14A
Bromoform by EPA TO-15
Bromomethane by EPA TO-15 & TO-14A
Carbon tetrachloride by EPA TO-15 & TO-14A
Chloroethane by EPA TO-15
Chloroform by EPA TO-15 & TO-14A
Chloromethane by EPA TO-15 & TO-14A
cis-1,2-Dichloroethene by EPA TO-15
cis-1,2-Dichloropropene by EPA TO-15 & TO-14A
Methylene chloride by EPA TO -15 & TO-14A
Tetrachloroethane by EPA TO-15 & TO-14A
trans-1,2-Dichloroethene by EPA TO-15
trans-1,2-Dichloropropene by EPA TO-15 & TO-14A
Trichloroethene by EPA TO-15 & TO-14A
Vinyl chloride by EPA TO -15 & TO-14A
2-Butanone by EPA TO-15
4-Methyl-2-Pentanone by EPA TO-15
Hexane by EPA TO-15
Methyl tert-butyl ether by EPA TO-15
Vinyl acetate by EPA TO-15

This certification applies to samples analyzed in summa canisters.

Chain of Custody Record

H&P Mobile Geochemistry Inc.

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☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 11/21/11
H&P Project # TRC112311-11
Outside Lab:

Client: TRC Enviro Corporation
Address: 1540 Eisenhower Place, Ann Arbor MI 48108
Email: smetz@resolutions.com
Collector: Stacy Metz
Client Project # 004308
Location: Tecumseh Michigan
Phone: 734 585 7825 Fax: 734 ~~90~~ 971 9022
Page: 1 of 2
Project Contact: Stacy Metz
Turn around time: Std

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☑ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☑ N/A
Temperature: M

Special Instructions: Report in ppbv ; Level IV
Short list VOCs - PCE, TCE, 1,1-DCE, cis-DCE, trans-DCE, vinyl chloride, 1,1,1-TCA, 1,1-DCA 1,2-DCA

Lab Work Order # PO # 36787 E111089
Fedex Track #8992 5890 5336 #8992 5890 5336

Sample Name (Can #)	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B ☐ BTEX/OXY ☐ TPH gas	8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☒ 8260B ☒ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ☐ 8260B ☐ TO-15	Leak Check Compound ☒ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2	CAN#	VAC#
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS												
SG-12 (373)	SG-12	~1.5L	942-955	11/21/11	Soil Gas	1L Summa	1						X							X			373	-.8
SG-13 (363)	SG-13	~400mL	1026-1036				1						X							X			363	-.3
SG-16 (400)	SG-16	~400mL	1051-1102				1						X							X			400	.3
SG-10 (405)	SG-10	~600mL	1113-1127				1						X							X			405	.3
SG-11 (198)	SG-11	~400mL	1135-1145				1						X							X			198	-.1
SG-15 (403)	SG-15	~1200mL	1208-1219				1						X							X			403	-.8
SG-06 (271)	SG-06	400mL	1230-1240				1						X							X			271	-.6
SG-07 (181)	SG-07	~400mL	1249-1259				1						X							X			181	-.7
SG-02 (398)	SG-02	400mL	1313-1323				1						X							X			398	-.8
SG-03 (359)	SG-03	400mL	1331-1348				1						X							X			359	-.1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
[signature]	TRC	—	Fed Ex	11/21/11	1810
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
		[signature]	H&P	11/23/11	1230
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

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☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 11/21/11
H&P Project # TRC112311-11
Outside Lab:

Client: TRC Environmental Corp.
Address: 1540 Eisenhower Place, Ann Arbor MI 48108
Email: smetz@trcsolutions.com
Collector: Stacy Metz
Client Project # 004308
Location: Tecumseh, MI
Phone: 734 585 7825 Fax: 734 971 9022
Page: 2 of 2
Project Contact: Stacy Metz
Turn around time: Standard

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☑ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☑ N/A
Temperature: NT

Special Instructions: Level 4 Report
Results in ppbv
Short list VOCs: PCE; TCE; 1,1-DCE; cis-DCE; trans-DCE; vinyl chloride; 1,1,1-TCA, 1,1-DCA, 1,2-DCA
Lab Work Order # E111089

Sample Name (Can #)	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B ☐ BTEX/OXY ☐ TPH gas	8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ☐ 8260B ☐ TO-15	Leak Check Compound ☒ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2	CAN #	VAC #
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS												
SG-04 (351)	SG04	~800mL	1443-1519	11/21/11	Soil Gas	1L Can							X							X			351	.5
SG-08 (408)	SG-08	~400mL	1515-1525	↓	↓	↓							↓							↓			408	.4
SG-09 (385 ~~373~~)	SG-09	~400mL	1541-1553																				385	.9
SG-05 (372)	SG-05	~400mL	1603-1623																				372	.8
SG-01 (311)	SG-01	~600mL	1634-1656																				311	1.0
DUP-01 (185)	Dup-01	—	—																				185	1.3

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date	Time
[signature]	TRC	—	Fed Ex	11/21/11	1810
[signature]		[signature]	H&P	11/23/11	1230

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Attachment 2
Data Validation Reports

Laboratory Data Validation

March 2011 Soil Gas Sample Event
Former Tecumseh Products Company Site
Tecumseh, Michigan

Twelve soil gas samples and one duplicate were collected on March 31, 2011. One sample, SG-01, was damaged in shipment and could not be analyzed. The remainder of the samples were analyzed by Pace Analytical Services, Inc., located in Minneapolis, Minnesota. The samples were analyzed for volatile organic analytes by USEPA Method TO-15 following the protocols specified in the Quality Assurance Project Plan (QAPP) for the Tecumseh Products Company Site in Tecumseh, Michigan. TRC validated the laboratory data. The following sections summarize the data validation procedure and the results of the validation.

Validation Procedure

The analytical data were validated using the USEPA National Functional Guidelines for Organic Data Review (USEPA, 2008). The USEPA National Functional Guidelines for Organic Data Review were written for solid and aqueous samples. Professional judgment was used in applying the guidance to the soil gas sample matrix. The data validation included a review of the duplicate and blank results from the laboratory, as well as verification that the sample holding times were met. TRC reviewed additional QC information to check for appropriate matrix performance using the analytical methods specified by the laboratory. The procedures TRC used to evaluate data in general included the following items:

- Checked technical holding times for analyses
- Reviewed data for blanks, laboratory duplicates, and laboratory control samples
- Determined field precision from blind field duplicate data
- Assessed the usability of the data

The data validation report addresses the following items:

- Usability of the data if QC results suggest potential problems with all or some of the data
- Potential sample contamination due to blank contributions
- Actions regarding specific QC criteria exceedences

TRC reviewed internal standard areas and retention times, method blanks, field and laboratory duplicate relative percent differences (RPDs), Laboratory Control Sample (LCS) recoveries, and holding times. In addition, the 24-hour calibration clock was checked for each sample.

Findings

The data quality objectives and laboratory completeness goals for the project were met, and the data are usable. The procedures specified in the methods were implemented, and the data packages were found to contain all of the deliverables necessary for validation of the analytical data. The discussion that follows describes the QA/QC results and evaluation.

- The laboratory met the technical holding time for all samples.
- Internal standard areas and retention times were reviewed and found to be within acceptable QC limits according to the USEPA National Functional Guidelines for Organic Data Review (USEPA, 2008).
- Contaminants were not detected in the method blanks. A method blank was performed for each analytical batch.
- The laboratory performed an LCS with each analytical batch. All results were within the laboratory control limits.
- A sample duplicate was run for one batch. Duplicate 958158 was run on a batch sample. Due to non-detections in at least one of the parent or the duplicate samples, no RPDs were calculated. One constituent was detected in the parent sample at a concentration comparable to reporting limits.
- One field duplicate sample was collected. DUP-01 corresponded with soil sample SG-07. Three constituents were detected in both the parent sample (SG-07) and the duplicate (DUP-01): tetrachloroethene, 1,1,1-trichloroethane, and trichloroethene. The calculated RPDs exceeded QC limits for trichloroethene. **Therefore, a"j" flag is assigned to trichloroethene in samples SG-07 and DUP-01 due to RPDs outside QC limits.**

Prepared by: Jennifer Meek
Reviewed by: Terry Hertz

Laboratory Data Validation

April 2011 Soil Gas Sample Event
Former Tecumseh Products Company Site
Tecumseh, Michigan

One soil gas sample was collected on April 13, 2011 and analyzed by Pace Analytical Services, Inc., located in Minneapolis, Minnesota. The sample was analyzed for volatile organic analytes by USEPA Method TO-15 following the protocols specified in the Quality Assurance Project Plan (QAPP) for the Tecumseh Products Company Site in Tecumseh, Michigan. TRC validated the laboratory data. The following sections summarize the data validation procedure and the results of the validation.

Validation Procedure

The analytical data were validated using the USEPA National Functional Guidelines for Organic Data Review (USEPA, 2008). The USEPA National Functional Guidelines for Organic Data Review were written for solid and aqueous samples. Professional judgment was used in applying the guidance to the soil gas sample matrix. The data validation included a review of the duplicate and blank results from the laboratory, as well as verification that the sample holding times were met. TRC reviewed additional QC information to check for appropriate matrix performance using the analytical methods specified by the laboratory. The procedures TRC used to evaluate data in general included the following items:

- Checked technical holding times for analyses
- Reviewed data for blanks, laboratory duplicates, and laboratory control samples
- Assessed the usability of the data

The data validation report addresses the following items:

- Usability of the data if QC results suggest potential problems with all or some of the data
- Potential sample contamination due to blank contributions
- Actions regarding specific QC criteria exceedences

TRC reviewed internal standard areas and retention times, method blanks, field and laboratory duplicate relative percent differences (RPDs), Laboratory Control Sample (LCS) recoveries, and holding times. In addition, the 24-hour calibration clock was checked for each sample.

Findings

The data quality objectives and laboratory completeness goals for the project were met, and the data are usable. The procedures specified in the methods were implemented, and the data packages were found to contain all of the deliverables necessary for validation of the analytical data. The discussion that follows describes the QA/QC results and evaluation.

- The laboratory met the technical holding time for the sample.
- Internal standard areas and retention times were reviewed and found to be within acceptable QC limits according to the USEPA National Functional Guidelines for Organic Data Review (USEPA, 2008).
- Contaminants were not detected in the method blank.
- The laboratory performed an LCS and all results were within the laboratory control limits.
- A sample duplicate was run. Duplicate 965615 was run on a batch sample. No RPDs were calculated because there were no detections in the parent or duplicate samples.

Prepared by: Jennifer Meek
Reviewed by: Terry Hertz

Laboratory Data Validation

June 7, 2011 Soil Gas Sample Event
Former Tecumseh Products Company Site
Tecumseh, Michigan

Seven soil gas samples and one duplicate were collected on June 7, 2011 and analyzed by Pace Analytical Services, Inc., located in Minneapolis, Minnesota. The samples were analyzed for volatile organic analytes by USEPA Method TO-15 following the protocols specified in the Quality Assurance Project Plan (QAPP) for the Tecumseh Products Company Site in Tecumseh, Michigan. TRC validated the laboratory data. The following sections summarize the data validation procedure and the results of the validation.

Validation Procedure

The analytical data were validated using the USEPA National Functional Guidelines for Organic Data Review (USEPA, 2008). The USEPA National Functional Guidelines for Organic Data Review were written for solid and aqueous samples. Professional judgment was used in applying the guidance to the soil gas sample matrix. The data validation included a review of the duplicate and blank results from the laboratory, as well as verification that the sample holding times were met. TRC reviewed additional QC information to check for appropriate matrix performance using the analytical methods specified by the laboratory. In general, the procedures TRC used to evaluate data included the following items:

- Checked technical holding times for analyses
- Reviewed data for blanks, laboratory duplicates, and laboratory control samples
- Determined field precision from blind field duplicate data
- Assessed the usability of the data

The data validation report addresses the following items:

- Usability of the data if QC results suggest potential problems with all or some of the data
- Potential sample contamination due to blank contributions
- Actions regarding specific QC criteria exceedences

TRC reviewed internal standard areas and retention times, method blanks, field and laboratory duplicate relative percent differences (RPDs), Laboratory Control Sample (LCS) recoveries, and holding times. In addition, the 24-hour calibration clock was checked for each sample.

Findings

The data quality objectives and laboratory completeness goals for the project were met, and the data are usable. The procedures specified in the methods were implemented, and the data packages were found to contain all of the deliverables necessary for validation of the analytical data. The discussion that follows describes the QA/QC results and evaluation.

- The laboratory met the technical holding time for all samples.
- Internal standard areas and retention times were reviewed and found to be within acceptable QC limits for all samples except for DUP-01. Area counts and retention times for sample DUP-01 were reported for internal standards on two separate days. On each of the days, different portions of the analyte list were run for that sample. On June 17, 2011, the area counts for the internal standard were below the lower laboratory QC limits. The sample was analyzed for trichloroethene and tetrachloroethene on June 17, 2011. **Assign a "j" flag to trichloroethene and tetrachloroethene detections in DUP-01 due to area counts exceeding QC limits.**
- Contaminants were not detected in the method blanks. A method blank was performed for each analytical batch.
- The laboratory performed an LCS with each analytical batch. All results were within the laboratory control limits.
- A sample duplicate was run for each batch. Duplicates 995318 and 998520 were run on batch samples; calculated RPDs were within QC limits. For constituents where an RPD could not be calculated because the constituent was detected in only one of the samples, detections were comparable to reporting limits. Sample duplicate 999190 was conducted on sample SG-01. RPDs were within QC limits.
- One field duplicate sample was collected. DUP-01 corresponded with soil sample SG-07. Three constituents were detected in both the parent sample (SG-07) and the duplicate (DUP-01): tetrachloroethene, 1,1,1-trichloroethane, and trichloroethene. The calculated RPDs exceeded QC limits for 1,1,1-trichloroethane and trichloroethene. **Therefore, "j" flags are assigned to 1,1,1-trichloroethane and trichloroethene in sample SG-07 and to 1,1,1-trichloroethane in DUP-01 due to RPDs calculated outside QC limits.** A "j" flag was already assigned to trichloroethene in DUP-01 because of low internal standard area counts.

Prepared by: Jennifer Meek
Reviewed by: Terry Hertz

Laboratory Data Validation

June 27, 2011 Soil Gas Sample Event
Former Tecumseh Products Company Site
Tecumseh, Michigan

Five soil gas samples were collected on June 27, 2011 and analyzed by Pace Analytical Services, Inc., located in Minneapolis, Minnesota. The samples were analyzed for volatile organic analytes by USEPA Method TO-15 following the protocols specified in the Quality Assurance Project Plan (QAPP) for the Tecumseh Products Company Site in Tecumseh, Michigan. TRC validated the laboratory data. The following sections summarize the data validation procedure and the results of the validation.

Validation Procedure

The analytical data were validated using the USEPA National Functional Guidelines for Organic Data Review (USEPA, 2008) and the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (USEPA, 1999). The USEPA National Functional Guidelines for Organic Data Review were written for solid and aqueous samples. Professional judgment was used in applying the guidance to the soil gas sample matrix. The data validation included a review of the blank results from the laboratory, as well as verification that the sample holding times were met. TRC reviewed additional QC information to check for appropriate matrix performance using the analytical methods specified by the laboratory. The procedures TRC used to evaluate data in general included the following items:

- Checked technical holding times for analyses
- Reviewed data for blanks and laboratory control samples
- Assessed the usability of the data

The data validation report addresses the following items:

- Usability of the data if QC results suggest potential problems with all or some of the data
- Potential sample contamination due to blank contributions
- Actions regarding specific QC criteria exceedences

TRC reviewed internal standard areas and retention times, method blanks, Laboratory Control Sample (LCS) recoveries, and holding times. In addition, the 24-hour calibration clock was checked for each sample.

Findings

The data quality objectives and laboratory completeness goals for the project were met, and the data are usable. The procedures specified in the methods were implemented, and the data packages were found to contain all of the deliverables necessary for validation of the analytical data. The discussion that follows describes the QA/QC results and evaluation.

- The laboratory met the technical holding time for all samples.
- Internal standard areas and retention times were reviewed and found to be within acceptable QC limits according to the USEPA National Functional Guidelines for Organic Data Review (USEPA, 2008).
- Contaminants were not detected in the method blanks. A method blank was performed for each analytical batch.
- The laboratory performed an LCS with each analytical batch. All results were within the laboratory control limits.
- A sample duplicate was not run.

Prepared by: Jennifer Meek
Reviewed by: Terry Hertz

Laboratory Data Validation

September 2011 Soil Gas Sample Event
Former Tecumseh Products Company Site
Tecumseh, Michigan

Thirteen soil gas samples and one duplicate were collected on September 28, 2011 and analyzed by H&P Mobile Geochemistry, Inc., located in Carlsbad, California. The samples were analyzed for volatile organic analytes by USEPA Method TO-15 following the protocols specified in the Quality Assurance Project Plan (QAPP) for the Tecumseh Products Company Site in Tecumseh, Michigan. TRC validated the laboratory data. The following sections summarize the data validation procedure and the results of the validation.

Validation Procedure

The analytical data were validated using the USEPA National Functional Guidelines for Organic Data Review (USEPA, 2008) and the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (USEPA, 1999). The USEPA National Functional Guidelines for Organic Data Review were written for solid and aqueous samples. Professional judgment was used in applying the guidance to the soil gas sample matrix. The data validation included a review of the duplicate and blank results from the laboratory, as well as verification that the sample holding times were met. TRC reviewed additional QC information to check for appropriate matrix performance using the analytical methods specified by the laboratory. The procedures TRC used to evaluate data in general included the following items:

- Checked technical holding times for analyses
- Reviewed data for blanks, laboratory duplicates, and laboratory control samples
- Determined field precision from blind field duplicate data
- Assessed the usability of the data

The data validation report addresses the following items:

- Usability of the data if QC results suggest potential problems with all or some of the data
- Potential sample contamination due to blank contributions
- Actions regarding specific QC criteria exceedences

TRC reviewed internal standard areas and retention times, method blanks, field duplicate relative percent differences (RPDs), Laboratory Control Sample (LCS) recoveries and RPDs, and holding times. In addition, the 24-hour calibration clock was checked for each sample.

Findings

The data quality objectives and laboratory completeness goals for the project were met, and the data are usable. The procedures specified in the methods were implemented, and the data packages were found to contain all of the deliverables necessary for validation of the analytical data. The discussion that follows describes the QA/QC results and evaluation.

- The laboratory met the technical holding time for the samples.
- Internal standard areas and retention times were reviewed and found to be within acceptable QC limits according to the USEPA National Functional Guidelines for Organic Data Review (USEPA, 2008). In addition, the 24-hour calibration clock was not exceeded for any sample.
- Contaminants were not detected in the method blanks.
- The laboratory performed LCS and LCSDs for each analytical batch and all recoveries and RPDs were within the laboratory control limits.
- One field duplicate sample was collected. DUP-01 corresponded with soil sample SG-01. Four constituents were detected in both the parent sample (SG-01) and the duplicate (DUP-01): cis-1,2-dichloroethene, 1,1,1-trichloroethane, tetrachloroethene, and trichloroethene. The calculated RPDs for the parent/duplicate samples were within acceptable ranges.

Prepared by: Jennifer Meek
Reviewed by: Terry Hertz

Laboratory Data Validation

November 2011 Soil Gas Sample Event
Former Tecumseh Products Company Site
Tecumseh, Michigan

Fifteen soil gas samples and one field duplicate were collected on November 21, 2011 and analyzed by H&P Mobile Geochemistry, Inc., located in Carlsbad, California. The samples were analyzed for volatile organic analytes by USEPA Method TO-15 following the protocols specified in the Quality Assurance Project Plan (QAPP) for the Tecumseh Products Company Site in Tecumseh, Michigan. TRC validated the laboratory data. The following sections summarize the data validation procedure and the results of the validation.

Validation Procedure

The analytical data were validated using the USEPA National Functional Guidelines for Organic Data Review (USEPA, 2008) and the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (USEPA, 1999). The USEPA National Functional Guidelines for Organic Data Review were written for solid and aqueous samples. Professional judgment was used in applying the guidance to the soil gas sample matrix. The data validation included a review of the duplicate and blank results from the laboratory, as well as verification that the sample holding times were met. TRC reviewed additional QC information to check for appropriate matrix performance using the analytical methods specified by the laboratory. The procedures TRC used to evaluate data in general included the following items:

- Checked technical holding times for analyses
- Reviewed data for blanks, laboratory duplicates, and laboratory control samples
- Determined field precision from blind field duplicate data
- Assessed the usability of the data

The data validation report addresses the following items:

- Usability of the data if QC results suggest potential problems with all or some of the data
- Potential sample contamination due to blank contributions
- Actions regarding specific QC criteria exceedences

TRC reviewed internal standard areas and retention times, method blanks, field duplicate relative percent differences (RPDs), Laboratory Control Sample (LCS) recoveries and RPDs, and holding times. In addition, the 24-hour calibration clock was checked for each sample.

Findings

The data quality objectives and laboratory completeness goals for the project were met, and the data are usable. The procedures specified in the methods were implemented, and the data packages were found to contain all of the deliverables necessary for validation of the analytical data. The discussion that follows describes the QA/QC results and evaluation.

- The laboratory met the technical holding time for the samples.
- Internal standard areas and retention times were reviewed and found to be within acceptable QC limits according to the USEPA National Functional Guidelines for Organic Data Review (USEPA, 2008). In addition, the 24-hour calibration clock was not exceeded for any sample.
- Surrogate recoveries met QC limits.
- Contaminants were not detected in the method blank.
- The laboratory performed an LCS and and LCSD. All recoveries and RPDs were within the laboratory control limits.
- Laboratory duplicates were not performed. One field duplicate sample was collected. DUP-01 corresponded with soil sample SG-01. Five constituents of concern were detected in both samples: 1,1-dichloroethene, cis-1,2-dichloroethene, 1,1,1-trichloroethane, trichloroethene, and tetrachloroethene. Calculated RPDs were within the acceptable range. 1,1-Dichloroethane was detected in DUP-01 at 22 ug/L, but it was not detected in SG-01. The reporting limit was 5 ug/L. Because the detection in DUP-01 was more than twice the detection limit, **assign a "j" flag to 1,1-dichloroethane in DUP-01.**

Prepared by: Jennifer Meek
Reviewed by: Terry Hertz

Appendix B

Technical Memorandum

To: Jason Smith, Tecumseh Products Company

From: Stacy Metz and Graham Crockford, TRC

Subject: Fourth Quarter 2011 Groundwater Monitoring Event
RCRA 3008(h) Consent Order (RCRA-05-2010-0012) - Tecumseh Products Company

Date: January 5, 2012

cc: Roger Jackson, Tecumseh Products Company
Douglas McClure, Conlin, McKenney and Philbrick, PC

Tecumseh Products Company (TPC) retained RMT, Inc. (RMT), now TRC Environmental Corporation (TRC),[1] to investigate soil and groundwater conditions at the former TPC site located in Tecumseh, Michigan. TRC has been assisting TPC with investigative activities in accordance with the RCRA Administrative Order on Consent (RCRA 05-2010-0012) for the site.

These investigation activities included the installation of 44 groundwater monitoring wells. Quarterly groundwater monitoring was initiated in December 2009. Quarterly sampling activities are conducted in accordance with the Quality Assurance Project Plan (QAPP) which was submitted to the United States Environmental Protection Agency (USEPA) for review in August 2010 and the Quarterly Sampling Plan described below. Quarterly monitoring was implemented to determine the nature and extent of volatile organic compounds (VOCs) in groundwater that exceed Michigan Part 201 cleanup criteria and USEPA approved groundwater screening levels for vapor intrusion, and to determine the stability of VOC concentrations in groundwater over time.

Summary of the Quarterly Sampling Plan

The sampling plan is summarized below:

- Quarterly Monitoring
  - Collect static groundwater measurements at each of the groundwater monitoring wells. Note that monitoring well MW-9s was excavated during the installation of the permeable reactive barrier (PRB) in May 2011, and is no longer part of the monitoring program. Since that time, static water levels at monitoring wells PRB-01s and PRB-02s, which are part of the PRB monitoring network, have been collected in conjunction with regular quarterly monitoring to help define groundwater elevations and flow direction along the eastern perimeter of the site.

[1] On June 6, 2011 TRC acquired the Environmental Business Unit of RMT; for purposes of this memo, references to TRC are inclusive of RMT prior to its acquisition by TRC.

- Collect static water levels at each of the two gauge point locations on the River Raisin.
- Use low-flow sampling techniques to collect groundwater samples at all groundwater monitoring well locations, except at monitoring wells MW-8s, MW-10d, and MW-16s. The following field parameters are measured during groundwater sample collection: pH, specific conductivity, redox potential, dissolved oxygen, turbidity and temperature. Groundwater samples are submitted to the analytical laboratory for VOCs analysis.
- Collect a surface water sample from the wetland area for VOCs analysis.

- Semi-Annual Monitoring (conducted during the second and fourth quarters)
  - Conduct all quarterly monitoring as described above.
  - At a subset of the groundwater monitoring wells (MW-1s, MW-3s, MW-4s, MW-6s, MW-10s, MW-14d, MW-17s, MW-18s, MW-19s, MW-19d, MW-21, MW-23, MW-24s, MW-24d, MW-27s, MW-27d, MW-32s, MW-33s, and MW-34s) collect samples for analysis of monitored natural attenuation (MNA) parameters: chloride, nitrate, sulfate and ferrous iron.
  - Previous semi-annual monitoring included the collection of drinking water samples from private wells identified in and around the area of VOC-affected groundwater for VOCs analysis. A groundwater use ordinance, restricting the use of private wells within the area of VOC-affected groundwater was passed by the City of Tecumseh during the second quarter of 2011. These wells were decommissioned in December 2011 and are no longer part of the monitoring program; properties not previously connected to municipal water were connected prior to well decommissioning in November 2011.

This sampling plan was developed to determine the stability of VOC concentrations in groundwater. As such, sampling activities are conducted in accordance with the QAPP which was submitted to the USEPA for review in August 2010, and VOC data are evaluated based on level 4 data quality objectives. Once the stability of chlorinated VOCs in groundwater has been assessed using appropriate statistical methods, the sampling plan (*e.g.* sample locations, frequency, and data quality objectives) may be modified to reflect changing project objectives.

Summary of Field Activities

TRC conducted the fourth quarter sampling activities between October 3, 2011 and October 10, 2011 in accordance with the sampling plan described above. Samples were analyzed by TriMatrix Laboratories, Inc. (TriMatrix). An initial review of VOC sample data found that the vinyl chloride concentration at monitoring well MW-23 was anomalously high compared to historical sample results. A re-sample event was conducted at monitoring well MW-23 on November 4, 2011. This sample was analyzed for VOCs. Sample locations are shown on Figure 1. Static water elevations are provided in Table 1. Field-collected data (pH, specific conductivity, redox potential, dissolved oxygen, turbidity and temperature) are provided in Table 2. Laboratory analytical data are provided in Attachment 1

(Fourth Quarter 2011 Analytical Data). A summary of detected VOCs is included as Table 3, and a summary of MNA parameters is included as Table 4.

Evaluation of Groundwater Chemical Data

Water chemistry data are summarized in Tables 2, 3 and 4. The constituents of concern at the site are chlorinated VOCs (CVOCs), specifically trichloroethene (TCE), 1,1,1-trichloroethane (TCA) and their breakdown products (cis-1,2-dichloroethene [cis-DCE] and vinyl chloride). The highest concentrations of TCE (>1,000 micrograms per liter [ug/L]) are found in the north at monitoring wells MW-4s and MW-32s and in the south at monitoring well MW-1s and along the eastern site perimeter near the location of abandoned monitoring well MW-9s. The highest concentrations of TCA (≥500 ug/L) are found at monitoring wells MW-1s and MW-34s in the south. The highest concentrations of degradation products are found downgradient of the northern source area at monitoring wells MW-3s and MW-4s.

CVOC concentrations were compared to Michigan Department of Environmental Quality (MDEQ) Part 201 criteria (Remediation and Redevelopment Division, Operational Memorandum No. 1, January 23, 2006, as amended March 25, 2011) and groundwater screening levels (GWSLs) for vapor intrusion. Figure 2 shows the horizontal extent of VOCs above relevant Part 201 criteria. No new exceedences of either Part 201 criteria or GWSLs were identified.

Concentrations of CVOCs at previously sampled locations are generally consistent with historic data (Table 3). Once a sufficient quantity of data (**typically at least eight sample events**) has been collected at each well, TRC will statistically assess the stability of the CVOCs in groundwater.

Groundwater Flow Rate and Direction

The groundwater elevation data collected in October 2011 were used to construct a groundwater contour map and to determine the direction of groundwater flow and hydraulic gradient within the unconsolidated sand underlying the site (Figure 3). Three years of quarterly water level data (March 2009 through December 2011) have been collected (Table 1), and the depth to groundwater and the direction of groundwater flow are generally consistent during this period. Groundwater flow at the former TPC site and surrounding study area is generally east toward the River Raisin, the nearest body of water, located 1,500 to 2,500 feet east of the site. The River Raisin is the regional discharge feature for groundwater beneath the former TPC site. A mean horizontal hydraulic gradient of 0.001 was measured across the former TPC property. Data from *in situ* hydraulic conductivity tests indicate that the hydraulic conductivity of the unconfined sand and gravel aquifer ranges from 0.014 to 0.077 centimeters per second (cm/s), consistent with a sand and gravel aquifer. Assuming a porosity of 0.3, the resultant estimated groundwater velocity ranges from 4.7×10^{-5} to 2.6×10^{-4} cm/s (48 to 265 feet per year).

The vertical hydraulic gradient in the upper sand/gravel aquifer was evaluated at nine of the ten nested well pairs (MW-10s/d, MW-12s/d, MW-19s/d, MW-20s/d, MW-24s/d, MW-27s/d, MW-28s/d, MW29s/d, and MW-30s/d). Because water at monitoring well MW-14s is perched with an unsaturated zone

between monitoring well MW-14s and monitoring well MW-14d, the vertical gradient at this nested well pair was not evaluated. At well pairs MW-19s/d, MW-24s/d, and MW-28s/d along the western (upgradient) portion of the site, the measured vertical hydraulic was essentially neutral (ranging from -0.0005 to 0.013). Northeast of the site the hydraulic gradient varied from downward at well pairs MW-29s/d (-0.060) and MW-12s/d (-0.014) to near neutral at well pair MW-30s/d (0.0062). At well pairs MW-10s/d, MW-20s/d, and MW-27s/d east/southeast (downgradient) of the site, a downward hydraulic gradient ranging from (-0.17 to -0.68) was measured, with the downward hydraulic gradient increasing to the south. This significant vertical downward gradient in the upper sand/gravel aquifer east/southeast of the site is the result of a higher conductivity sand and gravel deposit that underlies the sand deposit and a significant change in surface topography.

The surface topography drops steeply downgradient of the site from an approximate elevation of 780 feet above mean sea level (ft MSL) to an approximate elevation of 750 ft MSL in the wetland area adjacent to the River Raisin. East of the site, in proximity to the change in surface elevation, the horizontal hydraulic gradient increases (Figure 3). East/southeast of the site, the presence of discontinuous gravel and/or sand with gravel units that are more conductive than the bulk of the sand aquifer facilitates the decrease in static water elevation. Vertical groundwater movement is impeded by the continuous clay layer underlying the gravel deposit.

VOCs in Wetland Surface Water

Water chemistry data for the wetland sample (WL-01) collected in October 2011 can be found in Attachment 1. No VOCs were detected at sample location WL-01.

Data Quality Assurance

Field Data

Field data were reviewed in accordance with the QAPP. TRC field personnel collected water levels and water quality data (pH, specific conductivity, redox potential, dissolved oxygen, turbidity and temperature) consistent with the quarterly sampling plan described above. A review field data found the following abnormalities:

- The turbidity meter malfunctioned during sample collection for monitoring well MW-17s. No turbidity reading was collected at this location.
- The pH readings at three consecutive sample locations (MW-15s, MW-19s and MW-19d) were anomalously high on the afternoon of October 5, 2011. Field personnel noted the problem in the field and re-calibrated the meter, correcting the problem. The recorded pH readings at monitoring wells MW-15s, MW-19s and MW-19d are not valid and were disregarded. The pH readings at these locations are designated with “NM” for not measured one Table 2.

— The water quality meter used during the week of October 3, 2011 was a rental unit. This unit was set up to measure dissolved oxygen as percent saturation rather than milligrams per liter. As noted in Table 2, dissolved oxygen readings collected between October 4 and October 7, 2011 are recorded in percent saturation, and are not directly comparable to previously collected measurements.

The data quality objectives for the field data were met, and, with the exception of the three pH readings noted above, the data are usable.

Laboratory Data

Forty-four water samples, including 3 duplicates, were collected by TRC between October 4, 2011 and October 10, 2011. Samples were analyzed by Trimatrix Laboratories, located in Grand Rapids, Michigan for VOCs by USEPA Method 8260B following protocols specified in the QAPP. TRC performed data validation on the VOC laboratory data. Overall, the data quality objectives and laboratory completeness goals for the project were met, and the data are usable. The procedures specified in the methods were implemented, and the data package contained all of the deliverables necessary for validation of the analytical data. The complete laboratory data validation report is included in Attachment 2.

Data validation did not identify any problems with the October 2011 laboratory analytical VOC data. However, as noted above, the vinyl chloride result for monitoring well MW-23 was anomalously high when compared to historical data. A re-sample event was conducted on November 4, 2011. This sample was also analyzed by Trimatrix Laboratories for VOCs by USEPA Method 8260B following protocols specified in the QAPP. TRC performed validation of the VOC laboratory data. Overall, the data quality objectives and laboratory completeness goals for the project were met, and the data are usable. The procedures specified in the methods were implemented, and the data package contained all of the deliverables necessary for validation of the analytical data. The complete laboratory data validation report is included in Attachment 2.

The November 4, 2011 sample results were consistent with historical data for monitoring well MW-23 and did not confirm the October 2011 sample results. Therefore the October 2011 sample results for monitoring well MW-23 are not considered usable, and the November 2011 sample results are reported in Table 3.

Of the forty-four water samples collected, a subset of samples (21 total, including 2 duplicates) were analyzed by Trimatrix for chloride (Standard Method 4500-Cl E), nitrate (Standard Method 4500-NO3 F), sulfate (ASTM Method D516-90) and ferrous iron (Standard Method 3500-Fe B) following protocols specified in the QAPP. The data quality objectives (Level 3) and laboratory completeness goals for the MNA parameters were met, and the data are usable.

Tables

Table 1
Groundwater and Surface Water Elevations
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Well Location	Top of Well Casing (ft MSL)	Measurement Date	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-01s	796.53	3/16/2009	16.13	780.40
		4/20/2009	15.95	780.58
		6/4/2009	16.14	780.39
		12/7/2009	17.34	779.19
		3/23/2010	17.58	778.95
		5/10/2010	17.40	779.13
		9/2/2010	17.55	778.98
		12/10/2010	18.13	778.40
		2/14/2011	18.45	778.08
		4/25/2011	17.53	779.00
		7/19/2011	16.89	779.64
		10/3/2011	17.30	779.23
MW-02s	802.14	3/16/2009	21.94	780.20
		4/20/2009	21.60	780.54
		6/4/2009	21.53	780.61
		12/7/2009	22.87	779.27
		3/23/2010	23.27	778.87
		5/10/2010	23.10	779.04
		9/2/2010	23.00	779.14
		12/10/2010	23.64	778.50
		2/14/2011	24.04	778.10
		4/25/2011	23.23	778.91
		7/19/2011	22.48	779.66
		10/3/2011	22.78	779.36
MW-03s	787.00	3/16/2009	7.63	779.37
		4/20/2009	7.45	779.55
		6/4/2009	7.63	779.37
		12/7/2009	8.57	778.43
		3/23/2010	8.79	778.21
		5/10/2010	8.60	778.40
		9/2/2010	8.70	778.30
		12/10/2010	9.20	777.80
		2/14/2011	9.58	777.42
		4/25/2011	8.71	778.29
		7/19/2011	8.26	778.74
		10/3/2011	8.51	778.49
MW-04s	794.42	3/16/2009	14.64	779.78
		4/20/2009	14.40	780.02
		6/4/2009	14.48	779.94
		12/7/2009	15.65	778.77
		3/23/2010	12.91*	781.51
		5/10/2010	15.80	778.62
		9/2/2010	15.80	778.62
		12/10/2010	16.40	778.02
		2/14/2011	16.75	777.67
		4/25/2011	15.90	778.52
		7/19/2011	15.26	779.16
		10/3/2011	15.54	778.88

Notes:
Survey conducted to feet mean sea level by Midwestern Consultants, Inc. (2009 - 2010)
ft MSL - feet above mean sea level
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NM - Not measured
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Table 1
Groundwater and Surface Water Elevations
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Well Location	Top of Well Casing (ft MSL)	Measurement Date	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-05s	805.59	3/16/2009	24.73	780.86
		4/20/2009	24.40	781.19
		6/4/2009	24.41	781.18
		12/7/2009	25.77	779.82
		3/23/2010	26.16	779.43
		5/10/2010	26.00	779.59
		9/2/2010	26.00	779.59
		12/10/2010	26.62	778.97
		2/14/2011	26.95	778.64
		4/25/2011	26.20	779.39
		7/19/2011	25.29	780.30
		10/3/2011	25.74	779.85
MW-06s	803.73	3/16/2009	23.26	780.47
		4/20/2009	22.85	780.88
		6/4/2009	22.72	781.01
		12/7/2009	24.18	779.55
		3/23/2010	24.65	779.08
		5/10/2010	24.58	779.15
		9/2/2010	24.35	779.38
		12/10/2010	24.99	778.74
		2/14/2011	25.40	778.33
		4/25/2011	24.64	779.09
		7/19/2011	23.80	779.93
		10/3/2011	24.05	779.68
MW-07s	804.40	3/16/2009	23.85	780.55
		4/20/2009	23.40	781.00
		6/4/2009	23.24	781.16
		12/7/2009	24.75	779.65
		3/23/2010	25.19	779.21
		5/10/2010	25.08	779.32
		9/2/2010	25.00	779.40
		12/10/2010	25.59	778.81
		2/14/2011	25.53	778.87
		4/25/2011	25.18	779.22
		7/19/2011	24.32	780.08
		10/3/2011	24.64	779.76
MW-08s	804.39	3/16/2009	23.61	780.78
		4/20/2009	23.30	781.09
		6/4/2009	23.24	781.15
		12/7/2009	24.61	779.78
		3/23/2010	25.00	779.39
		5/10/2010	25.06	779.33
		9/2/2010	24.80	779.59
		12/10/2010	25.47	778.92
		2/14/2011	25.79	778.60
		4/25/2011	25.00	779.39
		7/19/2011	24.18	780.21
		10/3/2011	24.59	779.80

Notes:
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NM - Not measured
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Table 1
Groundwater and Surface Water Elevations
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Well Location	Top of Well Casing (ft MSL)	Measurement Date	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-09s	783.97	3/16/2009	4.46	779.51
		4/20/2009	4.30	779.67
		6/4/2009	4.63	779.34
		12/7/2009	5.65	778.32
		3/23/2010	5.78	778.19
		5/10/2010	5.60	778.37
		9/2/2010	5.85	778.12
		12/10/2010	6.98	776.99
		3/1/2011	6.04	777.93
		4/25/2011	5.48	778.49
		7/19/2011	Well Removed	
		10/3/2011	Well Removed	
MW-10s	788.65	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	10.46	778.19
		12/7/2009	11.57	777.08
		3/23/2010	11.55	777.10
		5/10/2010	11.20	777.45
		9/2/2010	11.85	776.80
		12/10/2010	12.15	776.50
		2/14/2011	12.46	776.19
		4/25/2011	11.09	777.56
		7/19/2011	11.34	777.31
		10/3/2011	11.54	777.11
MW-10d	788.40	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	12.10	776.30
		3/23/2010	11.98	776.42
		5/10/2010	11.60	776.80
		9/2/2010	12.41	775.99
		12/10/2010	12.68	775.72
		2/14/2011	12.99	775.41
		4/25/2011	11.48	776.92
		7/19/2011	12.05	776.35
		10/3/2011	12.30	776.10
MW-11s	809.64	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	28.09	781.55
		12/7/2009	29.69	779.95
		3/23/2010	30.29	779.35
		5/10/2010	30.20	779.44
		9/2/2010	29.90	779.74
		12/10/2010	30.49	779.15
		2/14/2011	30.95	778.69
		4/25/2011	30.21	779.43
		7/19/2011	29.43	780.21
		10/3/2011	29.50	780.14

Notes:
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Table 1
Groundwater and Surface Water Elevations
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Well Location	Top of Well Casing (ft MSL)	Measurement Date	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-12s	790.90	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	12.40	778.50
		12/7/2009	13.67	777.23
		3/23/2010	14.06	776.84
		5/10/2010	13.90	777.00
		9/2/2010	13.85	777.05
		12/10/2010	14.34	776.56
		2/14/2011	14.70	776.20
		4/25/2011	13.95	776.95
		7/19/2011	13.34	777.56
		10/3/2011	13.61	777.29
MW-12d	790.48	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		3/23/2010	13.93	776.55
		5/10/2010	13.81	776.67
		9/2/2010	12.70	777.78
		12/10/2010	14.23	776.25
		2/14/2011	14.61	775.87
		4/25/2011	13.90	776.58
		7/19/2011	13.24	777.24
		10/3/2011	13.49	776.99
MW-13s	787.35	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	14.88	772.47
		12/7/2009	15.81	771.54
		3/23/2010	15.82	771.53
		5/10/2010	15.50	771.85
		9/2/2010	15.70	771.65
		12/10/2010	16.15	771.20
		2/14/2011	16.89	770.46
		4/25/2011	15.50	771.85
		7/19/2011	15.21	772.14
		10/3/2011	15.69	771.66
MW-14s	780.67	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	5.12	775.55
		12/7/2009	6.20	774.47
		3/23/2010	3.62	777.05
		5/10/2010	3.60	777.07
		9/2/2010	7.05	773.62
		12/10/2010	6.80	773.87
		2/14/2011	6.36	774.31
		4/25/2011	2.43	778.24
		7/19/2011	5.88	774.79
		10/3/2011	6.29	774.38

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Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Well Location	Top of Well Casing (ft MSL)	Measurement Date	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-14d	780.51	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		3/23/2010	29.97	750.54
		5/10/2010	29.85	750.66
		9/2/2010	30.10	750.41
		12/10/2010	30.19	750.32
		2/14/2011	30.28	750.23
		4/25/2011	29.73	750.78
		7/19/2011	29.78	750.73
		10/3/2011	30.06	750.45
MW-15s	811.72	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	29.59	782.13
		12/7/2009	31.09	780.63
		3/23/2010	31.48	780.24
		5/10/2010	31.50	780.22
		9/2/2010	31.25	780.47
		12/10/2010	32.03	779.69
		2/14/2011	32.33	779.39
		4/25/2011	31.63	780.09
		7/19/2011	30.61	781.11
		10/3/2011	31.10	780.62
MW-16s	782.90	3/16/2009	NI	NI
		4/20/2009	NI	NI
		7/23/2009	Dry	NM
		12/7/2009	Dry	NM
		3/23/2010	Dry	NM
		5/10/2010	Dry	NM
		9/2/2010	Dry	NM
		12/10/2010	Dry	NM
		2/14/2011	Dry	NM
		4/25/2011	Dry	NM
		7/21/2011	Dry	NM
		10/3/2011	Dry	NM
MW-17s	754.49	3/16/2009	NI	NI
		4/20/2009	NI	NI
		7/23/2009	5.33	749.16
		12/7/2009	5.40	749.09
		3/23/2010	5.25	749.24
		5/10/2010	5.18	749.31
		9/2/2010	5.50	748.99
		12/10/2010	5.44	749.05
		2/14/2011	5.41	749.08
		4/25/2011	5.05	749.44
		7/21/2011	5.31	749.18
		10/3/2011	5.40	749.09

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Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Well Location	Top of Well Casing (ft MSL)	Measurement Date	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-18s	805.49	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	25.66	779.83
		3/23/2010	26.02	779.47
		5/10/2010	25.95	779.54
		9/2/2010	25.80	779.69
		12/10/2010	26.50	778.99
		2/14/2011	26.82	778.67
		4/25/2011	26.10	779.39
		7/19/2011	25.31	780.18
		10/3/2011	25.61	779.88
MW-19s	803.92	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	24.05	779.87
		3/23/2010	24.26	779.66
		5/10/2010	24.25	779.67
		9/2/2010	24.25	779.67
		12/10/2010	24.91	779.01
		2/14/2011	25.20	778.72
		4/25/2011	24.38	779.54
		7/19/2011	23.58	780.34
		10/3/2011	24.08	779.84
MW-19d	804.04	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	24.17	779.87
		3/23/2010	24.41	779.63
		5/10/2010	24.35	779.69
		9/2/2010	24.40	779.64
		12/10/2010	25.03	779.01
		2/14/2011	25.34	778.70
		4/25/2011	24.50	779.54
		7/19/2011	23.70	780.34
		10/3/2011	24.18	779.86
MW-20s	783.16	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	4.85	778.31
		3/23/2010	4.97	778.19
		5/10/2010	4.80	778.36
		9/2/2010	5.00	778.16
		12/10/2010	5.53	777.63
		2/14/2011	5.81	777.35
		4/25/2011	4.86	778.30
		7/19/2011	4.38	778.78
		10/3/2011	4.73	778.43

Notes:
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Groundwater and Surface Water Elevations
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Well Location	Top of Well Casing (ft MSL)	Measurement Date	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-20d	783.29	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	11.98	771.31
		3/23/2010	12.62	770.67
		5/10/2010	12.80	770.49
		9/2/2010	14.10	769.19
		12/10/2010	14.91	768.38
		2/14/2011	15.17	768.12
		4/25/2011	14.55	768.74
		7/19/2011	14.57	768.72
		10/3/2011	11.28	772.01
MW-21	780.85	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	29.69	751.16
		3/23/2010	29.51	751.34
		5/10/2010	29.35	751.50
		9/2/2010	29.60	751.25
		12/10/2010	29.75	751.10
		2/14/2011	29.87	750.98
		4/25/2011	29.34	751.51
		7/19/2011	29.19	751.66
		10/3/2011	29.54	751.31
MW-22	782.62	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	24.62	758.00
		3/23/2010	24.88	757.74
		5/10/2010	24.88	757.74
		9/2/2010	25.15	757.47
		12/10/2010	25.03	757.59
		2/14/2011	24.91	757.71
		4/25/2011	24.76	757.86
		7/21/2011	24.98	757.64
		10/3/2011	24.96	757.66
MW-23	787.10	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	9.27	777.83
		3/23/2010	9.50	777.60
		5/10/2010	9.45	777.65
		9/2/2010	9.45	777.65
		12/10/2010	9.97	777.13
		2/14/2011	10.32	776.78
		4/25/2011	9.47	777.63
		7/19/2011	9.00	778.10
		10/3/2011	9.20	777.90

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Table 1
Groundwater and Surface Water Elevations
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Well Location	Top of Well Casing (ft MSL)	Measurement Date	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-24s	797.83	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	19.10	778.73
		3/23/2010	19.49	778.34
		5/10/2010	19.37	778.46
		9/2/2010	19.30	778.53
		12/10/2010	19.83	778.00
		2/14/2011	20.24	777.59
		4/25/2011	19.43	778.40
		7/19/2011	18.73	779.10
		10/3/2011	19.04	778.79
MW24d	797.93	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	19.20	778.73
		3/23/2010	19.58	778.35
		5/10/2010	19.45	778.48
		9/2/2010	19.35	778.58
		12/10/2010	19.95	777.98
		2/14/2011	20.31	777.62
		4/25/2011	19.52	778.41
		7/19/2011	18.85	779.08
		10/3/2011	19.15	778.78
MW-25s	798.23	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	18.77	779.46
		3/23/2010	18.97	779.26
		5/12/2010	18.80	779.43
		9/2/2010	19.00	779.23
		12/10/2010	19.60	778.63
		2/14/2011	19.90	778.33
		4/25/2011	18.96	779.27
		7/19/2011	18.31	779.92
		10/3/2011	18.76	779.47
MW-26s	805.73	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		4/6/2010	26.10	779.63
		5/10/2010	26.00	779.73
		9/2/2010	26.00	779.73
		12/10/2010	26.68	779.05
		2/14/2011	26.95	778.78
		4/25/2011	26.11	779.62
		7/19/2011	25.31	780.42
		10/3/2011	25.80	779.93

Notes:
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Table 1
Groundwater and Surface Water Elevations
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Well Location	Top of Well Casing (ft MSL)	Measurement Date	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-27s	781.39	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		3/23/2010	3.12	778.27
		5/10/2010	2.83	778.56
		9/2/2010	3.15	778.24
		12/10/2010	3.58	777.81
		2/14/2011	3.77	777.62
		4/25/2011	2.79	778.60
		7/19/2011	2.45	778.94
		10/3/2011	2.84	778.55
MW-27d	781.40	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		3/23/2010	23.63	757.77
		5/10/2010	23.50	757.90
		9/2/2010	23.65	757.75
		12/10/2010	23.94	757.46
		2/14/2011	24.08	757.32
		4/25/2011	23.40	758.00
		7/19/2011	23.22	758.18
		10/3/2011	23.55	757.85
MW-28s	804.68	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		3/23/2010	25.53	779.15
		5/10/2010	25.45	779.23
		9/2/2010	25.20	779.48
		12/10/2010	25.86	778.82
		2/14/2011	26.30	778.38
		4/25/2011	25.47	779.21
		7/19/2011	24.70	779.98
		10/3/2011	24.92	779.76
MW-28d	804.92	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		3/23/2010	25.81	779.11
		5/10/2010	25.70	779.22
		9/2/2010	25.50	779.42
		12/10/2010	26.10	778.82
		2/14/2011	26.54	778.38
		4/25/2011	25.75	779.17
		7/19/2011	24.95	779.97
		10/3/2011	25.16	779.76

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Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Well Location	Top of Well Casing (ft MSL)	Measurement Date	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-29s	788.16	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		3/23/2010	15.80	772.36
		5/10/2010	15.50	772.66
		9/2/2010	15.55	772.61
		12/10/2010	16.18	771.98
		2/14/2011	16.22	771.94
		4/25/2011	15.40	772.76
		7/19/2011	15.50	772.66
		10/3/2011	15.48	772.68
MW-29d	788.16	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		3/23/2010	18.74	769.42
		5/10/2010	18.60	769.56
		9/2/2010	18.55	769.61
		12/10/2010	18.28	769.88
		2/14/2011	18.95	769.21
		4/25/2011	18.90	769.26
		7/19/2011	18.28	769.88
		10/3/2011	18.23	769.93
MW-30s	787.69	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		3/23/2010	9.89	777.80
		5/10/2010	9.75	777.94
		9/2/2010	9.90	777.79
		12/10/2010	10.36	777.33
		2/14/2011	10.74	776.95
		4/25/2011	9.58	778.11
		7/19/2011	9.40	778.29
		10/3/2011	9.66	778.03
MW-30d	787.66	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		3/23/2010	9.85	777.81
		5/10/2010	9.68	777.98
		9/2/2010	9.80	777.86
		12/10/2010	10.27	777.39
		2/14/2011	10.63	777.03
		4/25/2011	9.25	778.41
		7/19/2011	9.29	778.37
		10/3/2011	9.54	778.12

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Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Well Location	Top of Well Casing (ft MSL)	Measurement Date	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-31	782.36	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		3/23/2010	NI	NI
		6/18/2010	32.60	749.76
		9/2/2010	33.00	749.36
		12/10/2010	33.03	749.33
		2/14/2011	33.03	749.33
		4/25/2011	31.62	750.74
		7/21/2011	32.76	749.60
		10/3/2011	32.91	749.45
MW-32s	802.59	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		3/23/2010	NI	NI
		6/18/2010	NI	NI
		9/17/2010	23.45	779.14
		12/10/2010	23.96	778.63
		2/14/2011	24.35	778.24
		4/25/2011	23.54	779.05
		7/19/2011	22.81	779.78
		10/3/2011	23.15	779.44
MW-33s	799.49	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		3/23/2010	NI	NI
		6/18/2010	NI	NI
		9/17/2010	20.62	778.87
		12/10/2010	21.11	778.38
		2/14/2011	21.36	778.13
		4/25/2011	20.68	778.81
		7/19/2011	19.95	779.54
		10/3/2011	19.30*	780.19
MW-34s	802.78	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	NI	NI
		3/23/2010	NI	NI
		6/18/2010	NI	NI
		9/17/2010	23.60	779.18
		12/10/2010	24.15	778.63
		2/14/2011	24.49	778.29
		4/25/2011	23.63	779.15
		7/19/2011	22.89	779.89
		10/3/2011	23.35	779.43

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Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Well Location	Top of Well Casing (ft MSL)	Measurement Date	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
PRB-01s	784.06	7/19/2011	5.49	778.57
		10/3/2011	5.85	778.21
PRB-02s	784.07	7/19/2011	5.52	778.55
		10/3/2011	5.82	778.25
E. Chicago Blvd (River Raisin)	756.50	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	14.00	742.51
		3/23/2010	13.32	743.18
		6/18/2010	13.42	743.08
		9/2/2010	14.90	741.60
		12/10/2010	13.89	742.61
		2/14/2011	14.46	742.04
		4/25/2011	11.50*	745.00
		7/19/2011	14.60	741.90
		10/3/2011	14.15	742.35
Russell Road (River Raisin)	755.23	3/16/2009	NI	NI
		4/20/2009	NI	NI
		6/4/2009	NI	NI
		12/7/2009	19.36	735.87
		3/23/2010	18.50	736.73
		6/18/2010	18.65	736.58
		9/2/2010	20.40	734.83
		12/10/2010	22.04	733.19
		2/14/2011	19.99	735.24
		4/25/2011	19.50	735.73
		7/19/2011	22.65	732.58
		10/3/2011	21.70	733.53

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Table 2
Summary of Field Parameters in Groundwater
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Analyte		pH	Conductivity	Redox Potential	Dissolved Oxygen	Turbidity	Temperature
Units		S.U.	umhos/cm	mV	mg/L	NTU	°C
MW-01s	12/9/2009	7.29	499	161	5.68	18.3	12.64
	3/17/2010	6.40	521	84	2.4	30.1	13.34
	5/18/2010	7.45	631	110	2.1	10	11.9
	9/10/2010	NM	678	29	3.4	38	15.96
	12/28/2010	6.85	603	140	4.54	29.4	13.08
	2/25/2011	7.67	603	-5	6.80	29.6	11.22
	5/11/2011	6.48	611	121	1.80	20	12.59
	7/28/2011	7.61	720	-74	0.20	21.8	15.40
	10/6/2011	7.16	692	33.1	41.3*	0.50	15.60
MW-02s	12/9/2009	6.67	1,238	192	3.92	79.1	14.78
	3/17/2010	7.31	859	55	0.80	18.7	14.81
	5/18/2010	7.41	1,379	156	1.2	84	13.9
	9/10/2010	NM	1,413	35	1.6	49	16.16
	12/22/2010	6.97	1,500	28	2.82	33.0	14.90
	2/24/2011	7.06	1,450	-25	2.41	32.7	14.50
	5/10/2011	7.61	1,094	17	2.00	22.9	15.22
	7/28/2011	7.66	1,380	54	1.50	19.1	16.55
	10/7/2011	7.30	1,602	116.9	46.2*	6.08	15.48
MW-03s	12/8/2009	6.85	1,342	63	1.21	30.9	13.67
	3/17/2010	7.11	1,105	70	1.57	25.5	10.47
	5/18/2010	7.25	1,239	160	0.8	10	13.4
	9/10/2010	NM	1,320	11	0.5	39	18.70
	12/22/2010	6.96	1,298	24	0.44	31.9	13.42
	2/25/2011	6.82	1,466	38	0.80	25.2	8.84
	5/10/2011	7.15	1,199	39	1.55	21.5	11.00
	7/28/2011	7.14	1,347	50	0.93	19.5	17.83
	10/6/2011	6.80	1,294	63.0	28.8*	2.85	17.71
MW-04s	12/9/2009	6.87	970	68	7.17	4.70	15.47
	3/17/2010	6.57	763	78	0.22	16.7	15.69
	5/18/2010	7.20	928	168	0.4	5.0	13.6
	9/17/2010	7.03	817	49	0.4	33.3	18.14
	12/22/2010	6.99	838	-10	0.32	29.9	16.41
	2/25/2011	7.06	795	-9	0.60	24.5	14.15
	5/11/2011	6.84	815	50	0.93	20.2	13.75
	7/28/2011	7.26	777	-10	0.67	18.3	17.98
	10/6/2011	6.94	721	-20.0	13.8*	1.00	18.60
MW-05s	12/10/2009	7.41	765	131	7.19	NM	10.18
	3/17/2010	7.51	678	20	3.24	39.0	12.80
	5/17/2010	7.70	920	134	1.8	10.0	11.8
	9/9/2010	NM	886	46	3.5	56.0	13.80
	12/21/2010	7.28	852	25	4.52	33.6	11.77
	2/24/2011	6.94	857	65	4.32	28.0	11.78
	5/13/2011	7.53	810	45	7.92	29.3	13.12
	7/27/2011	7.47	880	136	4.80	25.8	13.00
	10/10/2011	7.13	999	74.4	7.19	3.35	13.06

Notes:
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Table 2
Summary of Field Parameters in Groundwater
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Analyte		pH	Conductivity	Redox Potential	Dissolved Oxygen	Turbidity	Temperature
Units		S.U.	umhos/cm	mV	mg/L	NTU	°C
MW-06s	12/9/2009	7.18	635	171	2.32	22.0	11.72
	3/18/2010	7.40	856	0	0.85	28.5	12.94
	5/17/2010	7.77	768	86	0.7	39	12.6
	9/10/2010	NM	1,254	116	0.9	47	12.70
	12/21/2010	7.13	979	-8	1.19	32.0	12.38
	2/18/2011	6.74	977	35	0.83	27.3	12.51
	5/10/2011	7.47	870	31	1.60	25.0	12.47
	7/27/2011	7.17	1,175	150	1.68	22.0	13.64
	10/5/2011	6.53	1,183	93.8	31.9*	0.50	13.60
MW-07s	12/10/2009	7.27	822	95	3.41	NM	10.43
	3/17/2010	7.20	770	-2	1.69	22.9	11.91
	5/17/2010	7.73	930	151	1.5	10	11.8
	9/10/2010	NM	833	109	3.2	39	13.00
	12/21/2010	7.13	846	15	2.80	35.0	12.45
	2/24/2011	6.90	871	92	2.68	25.9	11.95
	5/13/2011	7.41	703	38	6.20	24.8	13.30
	7/27/2011	7.44	806	138	4.15	26.3	13.73
	10/10/2011	7.16	708	79.5	5.67	4.40	14.77
MW-08s	12/10/2009	7.49	828	119	8.60	NM	10.91
MW-09s	12/9/2009	7.14	661	172	6.32	15.7	11.63
	3/18/2010	7.34	436	121	4.75	44.5	7.32
	5/18/2010	7.56	506	206	3.0	19	10.4
	9/17/2010	7.29	709	58	2.5	46.7	16.92
	2/25/2011	7.45	663	11	6.4	30	6.58
	5/11/2011	7.57	395	87	12.13*	24.6	9.48
MW-10s	12/9/2009	7.01	825	-1	6.16	144	9.99
	3/16/2010	7.28	816	-24	0.17	38.0	7.79
	5/12/2010	5.99	570	223	0.4	28	8.1
	9/3/2010	NM	925	-29	0.3	56	16.10
	12/16/2010	6.95	1,293	-53	0.18	49.5	10.40
	2/15/2011	6.85	1,251	-4	0.68	39.5	7.70
	5/9/2011	7.30	509	-20	0.22	38.6	7.71
	7/20/2011	7.24	878	-22	0.11	21.0	14.35
	10/4/2011	7.00	810	24.5	4.3*	2.00	14.88
MW-10d	12/9/2009	6.98	1,150	6	1.69	0.88	10.05
MW-11s	12/9/2009	7.14	969	140	8.59	27.2	10.18
	3/15/2010	7.31	632	83	7.05	199	11.43
	5/14/2010	6.89	728	195	2.7	85	12.1
	9/3/2010	NM	828	109	5.4	98	14.50
	12/17/2010	6.71	1,093	108	3.51	51.9	11.00
	2/17/2011	7.04	863	104	5.18	49.5	11.86
	5/12/2011	7.28	691	57	9.48	45.5	12.63
	7/22/2011	7.06	878	96	6.62	29	13.52
	10/7/2011	7.11	1,021	109.6	51.6*	6.40	12.68

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Fourth Quarter 2011

Analyte		pH	Conductivity	Redox Potential	Dissolved Oxygen	Turbidity	Temperature
Units		S.U.	umhos/cm	mV	mg/L	NTU	°C
MW-12s	12/10/2009	6.34	906	165	8.03	9.80	10.51
	3/15/2010	7.40	965	80	6.61	39.4	10.12
	5/14/2010	7.11	2,000	200	2.7	10	10.6
	9/3/2010	NM	1,650	108	5.4	46	16.30
	12/14/2010	6.97	1,371	34	6.61	35.3	11.70
	2/14/2011	NM	1,228	41	7.72	27.5	10.87
	5/12/2011	7.23	2,100	37	9.25	27.3	11.73
	7/20/2011	6.89	1,580	149	6.69	24.5	13.80
	10/7/2011	7.21	1,016	84.0	59.0*	5.35	15.60
MW-12d	3/18/2010	7.14	1,780	-94	0.23	59.2	12.07
	5/14/2010	7.19	1,880	-46	0.2	15	12.2
	9/3/2010	NM	2,200	-93	0.3	110	15.60
	12/14/2010	6.96	2,250	-91	0.30	32.8	7.60
	2/14/2011	6.84	2,370	-79	0.24	25.3	11.10
	5/12/2011	7.14	2,450	-96	0.95	25.5	14.78
	7/20/2011	6.97	2,450	-62	0.13	21	14.36
	10/7/2011	7.12	1,568	31.0	17.5*	6.50	14.89
MW-13s	12/10/2009	6.51	1,264	122	3.26	9.70	11.24
	3/15/2010	7.05	1,760	75	2.38	44.0	10.87
	5/14/2010	7.00	2,810	87	1.5	10	11.4
	9/3/2010	NM	2,170	71	2.6	44	15.70
	12/14/2010	6.85	2,050	18	4.70	45.2	11.30
	2/14/2011	6.80	1,870	8	9.32	261	8.86
	5/12/2011	7.23	2,010	20	8.30	37	12.68
	7/20/2011	6.91	2,610	77	4.79	23	15.59
	10/10/2011	6.78	1,976	114.9	3.49	4.79	14.74
MW-14s	12/8/2009	7.04	1,251	52	1.26	9.44	11.69
	3/15/2010	7.39	610	-7	4.83	29.9	6.63
	5/12/2010	6.96	733	197	3.0	4.5	9.9
	9/3/2010	NM	1,338	57	0.5	35	19.50
	12/20/2010	6.56	2,020	54	0.70	30.2	9.25
	2/16/2011	7.02	1,373	146	4.15	25.9	6.62
	5/11/2011	7.39	844	45	6.49	24	11.80
	7/21/2011	7.11	912	48	0.80	18	19.55
	10/7/2011	6.94	1,215	124.8	14.7*	0.23	16.85
MW-14d	3/23/2010	7.29	1,151	30	1.18	73.6	11.70
	5/14/2010	7.44	1,324	95	0.9	65	12.9
	9/3/2010	NM	1,371	81	1.2	58	14.30
	12/16/2010	6.91	1,397	45	0.88	57.9	10.90
	2/16/2011	7.01	1,403	114	0.94	32.3	11.06
	5/9/2011	7.15	1,278	46	2.56	39.9	12.32
	7/21/2011	7.24	1,264	75	1.55	37.5	14.84
	10/4/2011	7.18	974	145.7	12.0*	10.50	11.28

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Fourth Quarter 2011

Analyte		pH	Conductivity	Redox Potential	Dissolved Oxygen	Turbidity	Temperature
Units		S.U.	umhos/cm	mV	mg/L	NTU	°C
MW-15s	12/10/2009	7.07	456	150	9.35	33.7	9.76
	3/15/2010	6.85	448	93	7.07	57.9	11.03
	5/14/2010	7.50	621	131	2.4	52	12.8
	9/8/2010	NM	895	129	5.5	59	12.54
	12/17/2010	7.14	743	82	4.18	44.0	10.69
	2/17/2011	7.01	662	98	4.71	39.0	11.26
	5/12/2011	7.20	720	48	5.83	25.0	11.95
	7/25/2011	7.04	1,043	123	4.92	20.0	13.24
	10/7/2011	6.95	622	129.4	48.7*	5.98	11.61
MW-16s	12/7/2009	NM	NM	NM	NM	NM	NM
	3/18/2010	NM	NM	NM	NM	NM	NM
	5/12/2010	NM	NM	NM	NM	NM	NM
	9/8/2010	NM	NM	NM	NM	NM	NM
	12/16/2010	NM	NM	NM	NM	NM	NM
	2/15/2011	NM	NM	NM	NM	NM	NM
MW-17s	12/7/2009	7.32	810	124	8.06	8.51	8.82
	3/18/2010	7.47	847	28	3.27	29.2	5.19
	5/12/2010	7.35	870	218	3.1	10	9.1
	9/8/2010	NM	1,136	115	4.6	58	15.34
	12/16/2010	7.25	903	28	5.88	59.2	7.74
	2/15/2011	7.35	1,028	15	10.07	43.3	5.10
	5/11/2011	7.39	890	47	6.31	29.6	9.72
	7/21/2011	7.02	1,119	146	6.80	19.4	14.80
	10/4/2011	6.93	816	117.0	50.5*	NM	14.05
MW-18s	12/8/2009	7.31	1,043	56	4.52	79.2	11.59
	3/16/2010	6.08	732	107	1.14	97.7	11.82
	5/12/2010	7.82	1,990	208	2.3	10	11.3
	9/8/2010	NM	1,308	91	3.1	50	13.95
	12/20/2010	6.77	1,259	44	4.28	41.5	11.77
	2/17/2011	7.03	1,236	136	3.14	32	11.77
	5/9/2011	7.25	2,620	53	5.63	33.5	12.68
	7/22/2011	7.29	1,820	47	4.92	28.1	13.60
	10/5/2011	NM	1,164	110.8	33.2*	6.00	13.23
MW-19s	12/8/2009	6.82	1,065	53	2.73	15.6	12.37
	3/16/2010	7.15	895	6	1.95	20.2	12.66
	5/18/2010	6.63	971	150	0.6	10	11.6
	9/10/2010	NM	1,470	114	2.7	43	13.34
	12/20/2010	7.04	1,131	7	1.93	31.9	12.49
	2/18/2011	7.17	1,229	36	2.65	25.5	12.25
	5/10/2011	7.19	1,043	12	1.25	22.5	12.67
	7/25/2011	7.17	1,310	30	1.17	19.5	16.90
	10/5/2011	NM	990	-170.4	18.0*	0.50	14.10

Notes:
S.U. = standard pH units
umhos/cm = micromhos per centimeter
mV = millivolts
mg/L = milligrams per liter
NTU = nephelometric turbidity units
°C = degrees Celsius
* = Dissolved oxygen measurement recorded in percent of saturation, not mg/L
NM = not measured

Table 2
Summary of Field Parameters in Groundwater
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Analyte		pH	Conductivity	Redox Potential	Dissolved Oxygen	Turbidity	Temperature
Units		S.U.	umhos/cm	mV	mg/L	NTU	°C
MW-19d	12/8/2009	6.86	1,067	-84	0.71	66.6	10.99
	3/16/2010	7.00	913	-76	0.31	96.2	11.89
	5/12/2010	7.91	1,185	-30	0.4	23	11.7
	9/8/2010	NM	1,219	-103	0.2	80	15.75
	12/20/2010	7.18	1,162	-117	0.24	38.0	9.95
	2/18/2011	6.30	1,257	17	0.49	35.3	11.57
	5/10/2011	7.14	1,256	-120	0.26	64.2	12.78
	7/25/2011	7.20	1,293	-116	0.12	22.0	16.20
	10/5/2011	NM	985	-220.0	2.8*	0.50	15.10
MW-20s	12/10/2009	7.48	418	15	2.93	8.30	9.75
	3/17/2010	7.15	411	125	2.08	43.0	6.34
	5/18/2010	6.94	488	177	1.4	47	10.7
	9/10/2010	NM	512	109	1.0	42	18.03
	12/21/2010	7.04	553	94	1.11	35.7	9.63
	2/18/2011	7.58	599	34	1.60	29.7	7.17
	5/13/2011	7.47	550	29	5.98	26.9	10.20
	7/25/2011	7.45	487	38	2.48	19.9	17.50
	10/10/2011	7.14	478	57.2	1.65	4.86	17.25
MW-20d	12/10/2009	6.87	1,006	-41	0.82	0.77	11.18
	3/17/2010	6.98	928	-89	0.82	22.2	10.85
	5/18/2010	6.92	1,183	27	0.3	10	10.4
	9/10/2010	NM	1,184	-30	0.3	49	15.89
	12/21/2010	6.98	1,205	-110	0.19	34.7	11.08
	2/18/2011	7.38	1,216	-135	0.52	33.5	11.61
	5/13/2011	7.28	1,165	-118	0.26	37.0	12.70
	7/25/2011	7.24	1,155	-135	0.24	19.0	16.69
	10/10/2011	7.01	1,057	-73.0	1.30	0.50	14.87
MW-21	12/8/2009	7.12	1,049	36	4.43	15.7	11.30
	3/23/2010	7.29	1,002	41	3.48	24.9	12.81
	5/18/2010	7.15	1,134	220	1.8	8.0	12.2
	10/15/2010	6.91	1,160	180	4.2	29.3	13.03
	12/22/2010	7.11	1,084	21	5.00	34.3	11.87
	2/24/2011	6.99	1,243	-10	5.02	28.5	12.03
	5/11/2011	7.23	965	92	6.71	23.2	13.08
	7/28/2011	7.32	1,141	60	3.21	18.0	13.42
	10/6/2011	6.95	971	65.3	65.0*	0.39	13.18
MW-22	12/7/2009	5.73	1,220	190	1.75	4.85	9.62
	3/18/2010	7.37	1,010	-121	0.21	17.6	10.64
	5/18/2010	7.07	1,183	-7	0.3	9	9.2
	9/10/2010	NM	1,357	-114	0.2	41	11.12
	12/22/2010	7.00	1,304	-127	0.19	32.8	10.45
	2/24/2011	6.97	1,299	-139	0.38	33.2	10.03
	5/11/2011	7.24	1,066	-131	0.27	24.0	9.80
	7/21/2011	7.13	1,147	-107	0.16	22.7	11.25
	10/4/2011	6.72	981	-36.3	3.0*	4.00	10.90

Notes:
S.U. = standard pH units
umhos/cm = micromhos per centimeter
mV = millivolts
mg/L = milligrams per liter
NTU = nephelometric turbidity units
°C = degrees Celsius
* = Dissolved oxygen measurement recorded in percent of saturation, not mg/L
NM = not measured

Table 2
Summary of Field Parameters in Groundwater
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Analyte		pH	Conductivity	Redox Potential	Dissolved Oxygen	Turbidity	Temperature
Units		S.U.	umhos/cm	mV	mg/L	NTU	°C
MW-23	12/8/2009	6.63	1,520	-29	0.68	49.0	12.91
	3/16/2010	6.84	1,280	-76	0.25	86.5	10.97
	5/18/2010	7.02	1,600	18	0.2	10	10.6
	9/10/2010	NM	1,550	-87	0.2	44	16.15
	12/21/2010	6.99	1,540	-110	0.65	33.0	12.64
	2/18/2011	6.95	1,540	-127	0.30	37.4	12.23
	5/10/2011	7.17	1,424	-102	0.16	39.7	11.78
	7/25/2011	7.17	1,424	-98	0.10	23.0	13.85
	10/5/2011	7.00	1,050	-48.3	12.8*	4.0	15.92
	11/4/2011	5.64	1,709	NM	NM	4.94	14.70
MW-24s	12/8/2009	7.24	1,710	5	3.86	NM	13.10
	3/15/2010	7.49	1,142	-10	2.29	27.7	12.26
	5/12/2010	7.95	1,262	91	1.7	10	11.3
	9/8/2010	NM	1,495	54	3.2	43	16.10
	12/14/2010	6.76	1,308	152	2.04	32.5	10.85
	2/14/2011	NM	1,203	157	2.48	26.7	12.30
	5/9/2011	6.84	1,096	131	4.38	21.9	11.71
	7/19/2011	7.09	1,820	123	3.82	19.2	14.69
	10/4/2011	6.82	1,137	125.3	20.0*	1.00	14.66
MW-24d	12/8/2009	6.89	3,760	-65	0.58	NM	11.89
	3/15/2010	7.16	2,900	-73	0.73	30.4	12.57
	5/12/2010	7.63	3,600	-9	0.3	9	11.9
	9/8/2010	NM	3,360	114	1.4	44	17.3
	12/14/2010	6.76	4,140	-78	0.40	34.8	7.92
	2/14/2011	NM	4,050	-72	0.32	25.5	11.79
	5/9/2011	6.89	3,730	-75	0.22	24.5	13.19
	7/19/2011	6.92	3,910	-56	0.16	19.2	18.85
	10/4/2011	6.84	3,163	-3.0	2.9*	5.80	14.65
MW-25s	12/10/2009	7.08	743	71	0.93	31.3	11.01
	3/16/2010	7.09	830	38	1.49	23.8	11.69
	5/14/2010	7.72	1,066	118	0.8	52	11.8
	9/8/2010	NM	1,104	77	1.7	40	13.65
	12/22/2010	6.80	1,061	106	1.70	34.0	12.05
	2/24/2011	6.92	1,034	16	1.58	25.2	11.40
	5/13/2011	7.29	734	31	3.05	24.5	12.35
	7/28/2011	7.02	835	92	2.01	21.0	12.73
	10/10/2011	6.77	825	79.3	3.21	5.29	13.34
MW-26s	4/6/2010	6.09	1,116	140	0.31	16.2	13.08
	5/14/2010	7.81	1,024	-22	0.2	22	14.3
	9/8/2010	NM	1,128	-64	0.2	49	15.08
	12/17/2010	7.22	938	-86	0.15	31.0	11.06
	2/17/2011	6.37	951	91	0.75	63.5	12.29
	5/12/2011	7.01	953	-72	0.27	55.0	12.78
	7/25/2011	7.16	917	-76	0.21	19.5	15.85
	10/7/2011	6.99	1,005	-8.7	13.7*	2.67	12.55

Notes:
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Table 2
Summary of Field Parameters in Groundwater
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Analyte		pH	Conductivity	Redox Potential	Dissolved Oxygen	Turbidity	Temperature
Units		S.U.	umhos/cm	mV	mg/L	NTU	°C
MW-27s	3/23/2010	7.38	1,198	-57	0.15	67.8	8.27
	5/17/2010	6.62	1,274	150	0.2	58	11.7
	9/9/2010	NM	1,660	-61	0.3	58	16.68
	12/20/2010	6.87	1,374	1	0.20	45.0	10.62
	2/16/2011	7.19	1,158	40	0.53	31.0	7.37
	5/9/2011	7.35	1,253	48	0.81	33.6	10.72
	7/21/2011	7.27	1,780	-34	0.16	29.0	18.90
	10/5/2011	6.10	1,268	8.4	2.3*	8.00	16.99
MW-27d	3/23/2010	7.27	1,175	-108	0.21	23.9	12.79
	5/17/2010	6.90	1,429	127	0.3	3.0	12.7
	9/9/2010	NM	1,468	-12	0.4	35.0	12.89
	12/20/2010	7.01	1,510	-41	0.26	33.9	10.40
	2/16/2011	7.14	1,360	-102	0.29	30.4	12.45
	5/9/2011	7.26	1,363	-61	0.23	22.9	14.25
	7/22/2011	6.88	1,385	-41	0.36	20.0	15.10
	10/5/2011	6.23	1,231	3.0	3.3*	0.10	13.87
MW-28s	3/23/2010	7.30	778	-1	1.93	22.2	11.50
	5/17/2010	7.48	1,260	148	1.5	10	12.1
	9/9/2010	NM	779	42	1.5	41	12.85
	12/17/2010	6.92	736	130	1.19	35.0	10.10
	2/16/2011	7.18	916	26	1.67	26.0	11.99
	5/12/2011	7.72	1,165	51	3.37	23.5	12.86
	7/22/2011	7.08	880	57	1.87	20.0	12.81
	10/7/2011	7.26	688	88.7	28.3*	2.84	13.08
MW-28d	3/23/2010	7.26	827	-81	0.31	31.9	11.41
	5/17/2010	7.38	926	148	0.5	16	13.2
	9/9/2010	NM	901	10	0.9	58	13.37
	12/17/2010	7.00	999	-129	0.15	34.9	10.20
	2/16/2011	7.26	936	-174	0.21	29	11.33
	5/12/2011	7.35	940	-144	0.24	39.5	14.75
	7/22/2011	7.10	967	-113	0.10	19.1	14.27
	10/7/2011	7.15	957	-53.3	11.8*	5.35	14.25
MW-29s	3/18/2010	7.05	2,820	-59	0.37	24.8	12.71
	5/17/2010	6.98	3,270	-16	0.2	18	12.8
	9/9/2010	NM	4,410	-107	0.3	35	16.30
	12/15/2010	6.61	6,020	-121	0.42	39.5	12.91
	2/15/2011	6.78	4,910	-241	0.34	33.9	12.65
	5/12/2011	6.78	3,900	-121	0.22	24.7	13.45
	7/20/2011	6.75	4,680	-80	0.15	23	15.55
	10/10/2011	6.30	5,620	-19.1	1.40	4.47	15.73
MW-29d	3/18/2010	7.24	1,182	-134	0.21	5,999	13.78
	5/17/2010	7.40	1,405	60	1.0	10	15.0
	9/9/2010	NM	1,437	6	0.6	35	19.35
	12/15/2010	6.99	1,570	-90	1.57	42.3	0.52
	2/15/2011	7.15	1,550	-202	0.30	1245	11.28
	5/12/2011	7.26	1,403	-54	6.65	40.5	21.01
	7/20/2011	7.03	1,482	-70	2.40	48	23.15
	10/10/2011	6.76	1,381	78.9	3.01	3.26	12.65

Notes:
S.U. = standard pH units
umhos/cm = micromhos per centimeter
mV = millivolts
mg/L = milligrams per liter
NTU = nephelometric turbidity units
°C = degrees Celsius
* = Dissolved oxygen measurement recorded in percent of saturation, not mg/L
NM = not measured

Table 2
Summary of Field Parameters in Groundwater
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Analyte		pH	Conductivity	Redox Potential	Dissolved Oxygen	Turbidity	Temperature
Units		S.U.	umhos/cm	mV	mg/L	NTU	°C
MW-30s	3/23/2010	7.03	2,120	-14	1.68	102	9.98
	5/17/2010	7.40	2,430	69	0.2	22	12.1
	9/9/2010	NM	1,840	-85	0.2	52	17.01
	12/16/2010	6.78	1,800	-95	0.34	51.0	13.60
	2/15/2011	7.01	1,740	-115	0.18	61.0	11.38
	5/13/2011	6.90	2,340	-34	0.40	30.0	11.25
	7/20/2011	6.94	1,780	-6	0.11	25.0	15.70
	10/10/2011	6.77	1,565	-8.3	1.21	5.74	16.60
MW-30d	3/23/2010	6.92	1,670	-94	0.36	36.0	12.10
	5/17/2010	7.48	1,910	-5	0.2	44	13.6
	9/9/2010	NM	1,870	-98	0.2	52	16.35
	12/16/2010	6.88	1,830	-94	0.22	44.5	11.70
	2/15/2011	7.11	1,800	-146	0.78	40.3	12.60
	5/13/2011	7.03	1,740	-103	0.48	30.0	13.25
	7/20/2011	7.12	1,680	-88	0.18	28.9	16.40
	10/10/2011	6.87	1,546	-46.8	1.15	7.18	15.00
MW-31	6/18/2010	6.93	1,416	139	4.96	14.8	12.96
	9/17/2010	7.03	1,052	107	4.60	86.9	11.79
	12/22/2010	7.05	1,176	11	6.99	34.9	10.75
	2/24/2011	6.88	1,208	8	6.51	32.7	10.91
	5/11/2011	7.25	1,090	39	10.20	26.0	12.70
	7/21/2011	7.13	1,055	68	6.32	21.7	16.85
	10/4/2011	6.88	889	113.8	48.3*	4.08	12.10
MW-32s	9/17/2010	7.29	771	-20	0.31	46.8	17.52
	11/19/2010	7.08	800	-101	0.22	25.8	17.56
	12/28/2010	6.80	830	-62	0.24	31.5	17.20
	2/25/2011	7.14	868	-55	0.42	25.8	17.10
	5/10/2011	7.30	804	-85	0.64	21.7	17.22
	7/28/2011	7.40	804	-30	0.43	18.9	17.93
	10/6/2011	7.14	758	9.8	11.5*	1.00	17.32
MW-33s	9/17/2010	7.13	1,006	-95	0.48	39.2	16.55
	11/19/2010	6.79	1,059	-101	0.22	26.7	17.42
	12/22/2010	6.98	1,056	-128	0.30	33.4	17.55
	2/24/2011	7.00	991	-157	0.37	23.0	17.28
	5/10/2011	7.20	1,267	-100	1.31	24.4	16.23
	7/28/2011	7.26	1,188	-64	0.42	19.0	16.09
	10/6/2011	7.03	949	-51.3	12.0*	0.50	16.91
MW-34s	9/17/2010	7.40	562	21	3.83	44.2	16.02
	11/19/2010	7.22	580	27	4.30	30.0	16.07
	12/28/2010	7.08	585	21	5.68	32.5	15.70
	2/25/2011	7.40	630	-15	5.31	25.5	15.55
	5/10/2011	7.53	677	10	7.19	21.7	15.52
	7/28/2011	7.61	600	48	3.90	19.0	16.16
	10/6/2011	7.24	564	78.0	69.0*	4.85	15.80

Notes:
S.U. = standard pH units
umhos/cm = micromhos per centimeter
mV = millivolts
mg/L = milligrams per liter
NTU = nephelometric turbidity units
°C = degrees Celsius
* = Dissolved oxygen measurement recorded in percent of saturation, not mg/L
NM = not measured

Table 3
Summary of Detected Volatile Organic Compounds in Groundwater
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Analyte		2-Butanone	1,1-Dichloroethane	1,1-Dichloroethene[2]	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichloro-fluoromethane	Vinyl Chloride
Residential DW Criteria		13,000	880	7.0	70	100	5.0	200	5.0	2,600	2.0
Industrial DW Criteria		38,000	2,500	7.0	70	100	5.0	200	5.0	7,300	2.0
GSI Criteria		2,200	740	130	620	1,500[1]	60[1]	89	200[1]	NC	13[1]
Residential GWSLs for Vapor Intrusion		4.6E+06	130	390	440	330	11	15,000	58	370	5.0
Non-Residential GWSLs for Vapor Intrusion		6.4E+06	440	550	610	460	37	21,000	190	510	17
Groundwater Contact Criteria		2.4E+08	2.4E+06	11,000	2.0E+05	2.2E+05	12,000	1.3E+06	22,000	1.1E+06	1,000
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-01s (16-21')	3/13/2009	<100	<20	<20	<20	<20	<20	**750**	**2,700**	<20	<20
	4/20/2009	NA	<100	<100	<100	<100	<100	**1,100**	**2,200**	NA	<100
	12/9/2009	<100	<20	<20	<20	<20	<20	**1,000**	**3,400**	<20	<20
	3/17/2010	<100	<20	<20	<20	<20	<20	**1,400**	**2,500**	<20	<20
	5/18/2010	<100	<20	<20	<20	<20	<20	**1,000**	**2,700**	<20	<20
	9/3/2010	<100	<20	<20	<20	<20	<20	**750**	**2,400**	<20	<20
	12/28/2010	<100	<20	<20	<20	<20	<20	**1,100**	**2,500**	<20	<20
	2/25/2011	<50	<10	<10	<10	<10	<10	**560**	**1,300**	<10	<10
	5/11/2011[3]	<50	<10	<10	<10	<10	<10	**860**	**1,900**	<10	<10
	7/28/2011	<100	<20	<20	<20	<20	<20	**500**	**1,900**	<20	<20
	10/6/2011	<100	<20	<20	<20	<20	<20	**540**	**2,000**	<20	<20
DUP-01 (MW-01s)	3/13/2009	<20	<20	<20	<20	<20	<20	**720**	**2,700**	<20	<20
MW-02s (23-28')	3/13/2009	<10	<2.0	<2.0	**2.4**	<2.0	**2.2**	**2.5**	**280**	<2.0	<2.0
	4/20/2009	NA	<10	<10	<10	<10	<10	<10	**130**	NA	<10
	12/9/2009	<10	<2.0	<2.0	**3.7**	<2.0	**2.7**	**2.9**	**250**	<2.0	<2.0
	3/17/2010	**13**	<2.0	<2.0	**4.1**	<2.0	**2.3**	**3.1**	**290**	<2.0	<2.0
	5/18/2010	<10	<2.0	<2.0	**2.3**	<2.0	**2.4**	**2.6**	**210**	<2.0	<2.0
	9/3/2010	<10	<2.0	<2.0	**2.3**	<2.0	**2.3**	**2.3**	**220**	<2.0	<2.0
	12/22/2010	<10	<2.0	<2.0	**2.4**	<2.0	**2.3**	**3.1**	**240**	<2.0	<2.0
	2/24/2011	<10	<2.0	<2.0	**2.0**	<2.0	<2.0	**2.6**	**240**	<2.0	<2.0
	5/10/2011[3]	<10	<2.0	<2.0	<2.0	<2.0	<2.0	**2.3**	**250**	<2.0	<2.0
	7/28/2011[4]	<10	<2.0	<2.0	**2.0**	<2.0	**2.2**	**2.4**	**280**	<2.0	<2.0
	10/7/2011	<10	<2.0	<2.0	<2.0	<2.0	**2.5**	**2.5**	**220**	<2.0	<2.0
MW-03s (9-14')	3/13/2009	<10	**9.1**	<2.0	**240**	**9.1**	<2.0	<2.0	<2.0	<2.0	**140**
	4/20/2009	NA	**18**	<10	**490**	**18**	<10	<10	<10	NA	**210**
	12/8/2009	<120	**46**	<25	**2,200**	**83**	<25	<25	<25	<25	**130**
	3/17/2010	<25	**11**	<5.0	**460**	**17**	<5.0	<5.0	<5.0	<5.0	**42**
	5/18/2010	<25	**14**	<5.0	**630**	**24**	<5.0	<5.0	<5.0	<5.0	**34**
	9/3/2010	<50	**29**	<10	**1,600**	**63**	<10	<10	<10	<10	**83**
	12/22/2010	<50	**32**	<10	**1,800**	**82**	<10	<10	<10	<10	**70**
	2/25/2011	<100	**33**	<20	**2,200**	**110**	<20	<20	<20	<20	**75**
	5/10/2011[3]	<100	**25**	<20	**1,600**	**77**	<20	<20	<20	<20	**52**
	7/28/2011	<100	**23**	<20	**1,700**	**78**	<20	<20	<20.0	<20	**65**
	10/6/2011	<100	**24**	<20	**2,100**	**100**	<20	<20	<20	<20	**91**
DUP-01 (MW-03s)	12/8/2009	<120	**42**	<25	**2,000**	**73**	<25	<25	<25	<25	**120**

Notes:

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ug/L = micrograms per liter

NC = No criteria

NA = Not analyzed

Bold font denotes concentrations detected above laboratory reporting limits

Denotes concentrations above one or more criteria

1) Criterion is not protective for surface water used as a drinking water source as described in footnote {X} of MDEQ Op Memo 1 Part 201, Attachment 1.

2) Compound may exhibit characteristic ignitability as defined in 40 C.F.R. § 261.21

3) The average temperature in this sample shipment exceeded the recommended temperature range. Sample results are approximate.

4) Quality control results for trichloroethene are outside the established control limits, the result is approximate.

Table 3
Summary of Detected Volatile Organic Compounds in Groundwater
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Analyte		2-Butanone	1,1-Dichloroethane	1,1-Dichloroethene(2)	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichloro-fluoromethane	Vinyl Chloride
Residential DW Criteria		13,000	880	7.0	70	100	5.0	200	5.0	2,600	2.0
Industrial DW Criteria		38,000	2,500	7.0	70	100	5.0	200	5.0	7,300	2.0
GSI Criteria		2,200	740	130	620	1,500(1)	60(1)	89	200(1)	NC	13(1)
Residential GWSLs for Vapor Intrusion		4.6E+06	130	390	440	330	11	15,000	58	370	5.0
Non-Residential GWSLs for Vapor Intrusion		6.4E+06	440	550	610	460	37	21,000	190	510	17
Groundwater Contact Criteria		2.4E+08	2.4E+06	11,000	2.0E+05	2.2E+05	12,000	1.3E+06	22,000	1.1E+06	1,000
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-04s (15-20')	3/13/2009	<120	<25	<25	**2,100**	**70**	<25	<25	**5,000**	<25	**460**
	4/20/2009	NA	<100	<100	**1,700**	<100	<100	<100	**4,000**	NA	**520**
	12/9/2009	<250	<50	<50	**2,500**	**90**	<50	<50	**7,100**	<50	**270**
	3/17/2010	<250	<50	<50	**2,900**	**82**	<50	<50	**7,500**	<50	**520**
	5/18/2010	<250	<50	<50	**2,100**	**58**	<50	<50	**4,700**	<50	**280**
	9/3/2010	<250	<50	<50	**2,400**	**70**	<50	<50	**5,200**	<50	**200**
	12/22/2010	<250	<50	<50	**2,700**	**91**	<50	<50	**6,700**	<50	**270**
	2/25/2011	<250	<50	<50	**2,500**	**82**	<50	<50	**5,900**	<50	**280**
	5/11/2011(3)	<250	<50	<50	**1,900**	**58**	<50	<50	**4,600**	<50	**270**
	7/28/2011	<250	<50	<50	**1,700**	**50**	<50	<50	**4,600**	<50	**190**
	10/6/2011	<250	<50	<50	**2,000**	**58**	<50	<50	**4,600**	<50	**190**
MW-05s (25-30')	3/13/2009	<5.0	<1.0	<1.0	<1.0	<1.0	**3.5**	<1.0	**120**	<1.0	<1.0
	4/20/2009	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**140**	NA	<5.0
	12/10/2009	<5.0	<1.0	<1.0	<1.0	<1.0	**5.3**	<1.0	**190**	<1.0	<1.0
	3/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	**6.3**	<1.0	**160**	<1.0	<1.0
	5/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	**4.6**	<1.0	**160**	<1.0	<1.0
	9/3/2010	<5.0	<1.0	<1.0	<1.0	<1.0	**4.6**	<1.0	**140**	<1.0	<1.0
	12/21/2010	<5.0	<1.0	<1.0	<1.0	<1.0	**4.9**	<1.0	**160**	<1.0	<1.0
	2/24/2011	<5.0	<1.0	<1.0	<1.0	<1.0	**4.4**	<1.0	**130**	<1.0	<1.0
	5/13/2011	<5.0	<1.0	<1.0	<1.0	<1.0	**4.9**	<1.0	**160**	<1.0	<1.0
	7/27/2011	<5.0	<1.0	<1.0	<1.0	<1.0	**4.8**	<1.0	**150**	<1.0	<1.0
	10/10/2011	<5	<1.0	<1.0	<1.0	<1.0	**5.1**	<1.0	**150**	<1.0	<1.0
MW-06s (24-29')	3/16/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**21**	<1.0	<1.0
	4/20/2009	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**23**	NA	<1.0
	12/9/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**37**	<1.0	<1.0
	3/18/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**31**	<1.0	<1.0
	5/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**33**	<1.0	<1.0
	9/3/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**29**	<1.0	<1.0
	12/21/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**34**	<1.0	<1.0
	2/18/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**35**	<1.0	<1.0
	5/10/2011(3)	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**27**	<1.0	<1.0
	7/27/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**27**	<1.0	<1.0
	10/5/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**30**	<1.0	<1.0

Notes:
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Bold font denotes concentrations detected above laboratory reporting limits
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Fourth Quarter 2011

Analyte		2-Butanone	1,1-Dichloroethane	1,1-Dichloroethene[2]	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichloro-fluoromethane	Vinyl Chloride
Residential DW Criteria		13,000	880	7.0	70	100	5.0	200	5.0	2,600	2.0
Industrial DW Criteria		38,000	2,500	7.0	70	100	5.0	200	5.0	7,300	2.0
GSI Criteria		2,200	740	130	620	1,500[1]	60[1]	89	200[1]	NC	13[1]
Residential GWSLs for Vapor Intrusion		4.6E+06	130	390	440	330	11	15,000	58	370	5.0
Non-Residential GWSLs for Vapor Intrusion		6.4E+06	440	550	610	460	37	21,000	190	510	17
Groundwater Contact Criteria		2.4E+08	2.4E+06	11,000	2.0E+05	2.2E+05	12,000	1.3E+06	22,000	1.1E+06	1,000
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-07s (23.5-28.5')	3/16/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**	**10**	<1.0	<1.0
	4/20/2009	NA	<1.0	<1.0	<1.0	<1.0	<1.0	**1.6**	**11**	NA	<1.0
	12/10/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.8**	**14**	<1.0	<1.0
	3/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.9**	**13**	<1.0	<1.0
	5/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.9**	**13**	<1.0	<1.0
	9/3/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	**12**	<1.0	<1.0
	12/21/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**	**16**	<1.0	<1.0
	2/24/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.6**	**12**	<1.0	<1.0
	5/13/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**	**12**	<1.0	<1.0
	7/27/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**	**11**	<1.0	<1.0
	10/10/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	**13**	<1.0	<1.0
MW-08s (23.5-28.5')	3/16/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**11**	<1.0	<1.0
	4/20/2009	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**10**	NA	<1.0
	12/10/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**11**	<1.0	<1.0
DUP-01 (MW-08s)	4/20/2009	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**10**	NA	<1.0
MW-09s (7-12')	3/16/2009	<100	<20	<20	<20	<20	<20	**160**	**1,700**	<20	<20
	4/20/2009	NA	<100	<100	<100	<100	<100	**220**	**2,100**	NA	<100
	12/9/2009	<100	<20	<20	<20	<20	<20	**150**	**2,400**	<20	<20
	3/18/2010	<100	<20	<20	<20	<20	<20	**120**	**1,500**	<20	<20
	5/18/2010	<100	<20	<20	<20	<20	<20	**120**	**1,700**	<20	<20
	9/8/2010	<100	<20	<20	<20	<20	<20	**120**	**1,700**	<20	<20
	2/25/2011	<50	<10	<10	<10	<10	<10	**84**	**1,100**	<10	<10
	5/11/2011[3]	<50	<10	<10	<10	<10	<10	**83**	**1,200**	<10	<10
MW-10s (8-13')	5/15/2009	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/9/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/16/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/8/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/16/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/15/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/9/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/20/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/4/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DUP-02 (MW-10s)	5/15/2009	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10d (14-19')	12/9/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

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Residential DW Criteria		13,000	880	7.0	70	100	5.0	200	5.0	2,600	2.0
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Groundwater Contact Criteria		2.4E+08	2.4E+06	11,000	2.0E+05	2.2E+05	12,000	1.3E+06	22,000	1.1E+06	1,000
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-11s (29-34')	5/14/2009	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	1/13/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/15/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/14/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/8/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/17/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/22/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/7/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DUP-02 (MW-11s)	5/14/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DUP-01 (MW-11s)	9/3/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-12s (12-17')	5/15/2009	NA	<1.0	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	<1.0
	12/30/2009	<5.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	<1.0
	3/15/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/14/2010	<5.0	<1.0	<1.0	<1.0	<1.0	**1.0**	<1.0	<1.0	<1.0	<1.0
	9/10/2010	<5.0	<1.0	<1.0	<1.0	<1.0	**1.6**	<1.0	<1.0	<1.0	<1.0
	12/14/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/14/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2011	<5.0	<1.0	<1.0	<1.0	<1.0	**1.6**	<1.0	<1.0	<1.0	<1.0
	7/20/2011	<5.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	<1.0
	10/7/2011	<5.0	<1.0	<1.0	<1.0	<1.0	**1.9**	<1.0	<1.0	<1.0	<1.0
MW-12d (33-38')	3/18/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/14/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/8/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/14/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/14/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/20/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/7/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:
Residential and Industrial Drinking Water (DW) Criteria, Groundwater Surface Water Interface (GSI) Criteria, and Groundwater Contact Criteria from MDEQ RRD Op Memo 1 Part 201 Generic Cleanup Criteria/Part 213 Risk Based Cleanup Levels, January 23, 2006, as amended March 25, 2011.
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Bold font denotes concentrations detected above laboratory reporting limits
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3) The average temperature in this sample shipment exceeded the recommended temperature range. Sample results are approximate.
4) Quality control results for trichloroethene are outside the established control limits, the result is approximate.

Table 3
Summary of Detected Volatile Organic Compounds in Groundwater
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Analyte		2-Butanone	1,1-Dichloroethane	1,1-Dichloroethene[2]	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichloro-fluoromethane	Vinyl Chloride
Residential DW Criteria		13,000	880	7.0	70	100	5.0	200	5.0	2,600	2.0
Industrial DW Criteria		38,000	2,500	7.0	70	100	5.0	200	5.0	7,300	2.0
GSI Criteria		2,200	740	130	620	1,500[1]	60[1]	89	200[1]	NC	13[1]
Residential GWSLs for Vapor Intrusion		4.6E+06	130	390	440	330	11	15,000	58	370	5.0
Non-Residential GWSLs for Vapor Intrusion		6.4E+06	440	550	610	460	37	21,000	190	510	17
Groundwater Contact Criteria		2.4E+08	2.4E+06	11,000	2.0E+05	2.2E+05	12,000	1.3E+06	22,000	1.1E+06	1,000
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-13s (13-18')	5/15/2009	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/10/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/15/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/14/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/10/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/14/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/14/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/20/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/10/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-14s (4-9')	5/14/2009	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/8/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/15/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/10/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/20/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/16/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/11/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/21/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/7/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-14d (37.5-42.5')	3/23/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/14/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/10/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/16/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/16/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/9/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/21/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/5/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DUP-01 (MW-14d)	2/16/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/9/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/21/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/5/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:
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Table 3
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Tecumseh, Michigan
Fourth Quarter 2011

Analyte		2-Butanone	1,1-Dichloroethane	1,1-Dichloroethene[2]	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichloro-fluoromethane	Vinyl Chloride
Residential DW Criteria		13,000	880	7.0	70	100	5.0	200	5.0	2,600	2.0
Industrial DW Criteria		38,000	2,500	7.0	70	100	5.0	200	5.0	7,300	2.0
GSI Criteria		2,200	740	130	620	1,500[1]	60[1]	89	200[1]	NC	13[1]
Residential GWSLs for Vapor Intrusion		4.6E+06	130	390	440	330	11	15,000	58	370	5.0
Non-Residential GWSLs for Vapor Intrusion		6.4E+06	440	550	610	460	37	21,000	190	510	17
Groundwater Contact Criteria		2.4E+08	2.4E+06	11,000	2.0E+05	2.2E+05	12,000	1.3E+06	22,000	1.1E+06	1,000
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-15s (30-35')	5/15/2009	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/30/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/15/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/14/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/10/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/17/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/25/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/7/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17s (3-8')	7/23/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/7/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/18/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/10/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/16/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/15/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/11/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/21/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/4/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-18s (26-31')	12/8/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/16/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/8/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/20/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/17/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/9/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/22/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/5/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-19s (25-30')	12/8/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.8**	**31**	<1.0	<1.0
	1/13/2010	<5.0	<1.0	<1.0	<1.0	<1.0	**1.2**	**2.3**	**36**	<1.0	<1.0
	3/16/2010	<5.0	<1.0	<1.0	<1.0	<1.0	**1.1**	**1.7**	**36**	<1.0	<1.0
	5/18/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.6**	**32**	<1.0	<1.0
	9/8/2010	<5.0	<1.0	<1.0	<1.0	<1.0	**1.2**	**1.8**	**33**	<1.0	<1.0
	12/20/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.8**	**37**	<1.0	<1.0
	2/18/2011	<5.0	<1.0	<1.0	<1.0	<1.0	**1.1**	**1.8**	**41**	<1.0	<1.0
	5/10/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**	**28**	<1.0	<1.0
	7/25/2011	<5.0	<1.0	<1.0	<1.0	<1.0	**1.0**	**1.4**	**27**	<1.0	<1.0
	10/5/2011	<5.0	<1.0	<1.0	<1.0	<1.0	**1.1**	**1.7**	**28**	<1.0	<1.0

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Fourth Quarter 2011

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Residential DW Criteria		13,000	880	7.0	70	100	5.0	200	5.0	2,600	2.0
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GSI Criteria		2,200	740	130	620	1,500[1]	60[1]	89	200[1]	NC	13[1]
Residential GWSLs for Vapor Intrusion		4.6E+06	130	390	440	330	11	15,000	58	370	5.0
Non-Residential GWSLs for Vapor Intrusion		6.4E+06	440	550	610	460	37	21,000	190	510	17
Groundwater Contact Criteria		2.4E+08	2.4E+06	11,000	2.0E+05	2.2E+05	12,000	1.3E+06	22,000	1.1E+06	1,000
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP-03 (MW-19s)	9/10/2010	<5.0	<1.0	<1.0	<1.0	<1.0	**1.0**	**1.7**	**32**	<1.0	<1.0
DUP-02 (MW-19s)	2/18/2011	<5.0	<1.0	<1.0	<1.0	<1.0	**1.1**	**1.8**	**39**	<1.0	<1.0
	5/10/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.6**	**29**	<1.0	<1.0
	7/25/2011	<5.0	<1.0	<1.0	<1.0	<1.0	**1.1**	**1.4**	**27**	<1.0	<1.0
	10/5/2011	<5.0	<1.0	<1.0	<1.0	<1.0	**1.1**	**1.6**	**28**	<1.0	<1.0
MW-19d (40-45')	12/8/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/16/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/8/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/20/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/18/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/10/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/25/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/5/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DUP-01 (MW-19d)	5/12/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-20s (8-13')	12/30/2009	<5.0	**48**	**4.0**	**9.6**	<1.0	<1.0	**150**	**71**	**2.9**	<1.0
	1/13/2010	<5.0	**50**	**3.5**	**9.0**	<1.0	<1.0	**170**	**70**	**2.8**	<1.0
	3/17/2010	<5.0	**51**	**3.8**	**9.4**	<1.0	<1.0	**160**	**64**	**3.2**	<1.0
	5/18/2010	<10	**58**	**5.1**	**12**	<2.0	<2.0	**210**	**94**	**3.4**	<2.0
	9/9/2010	<10	**34**	**4.2**	**10**	<2.0	<2.0	**230**	**110**	**3.8**	<2.0
	12/21/2010	<10	**24**	**3.6**	**6.1**	<2.0	<2.0	**200**	**89**	**3.6**	<2.0
	2/18/2011	<10	**19**	**3.3**	**5.5**	<2.0	<2.0	**190**	**93**	**3.5**	<2.0
	5/13/2011	<10	**14**	**2.8**	**4.1**	<2.0	<2.0	**190**	**91**	**2.9**	<2.0
	7/25/2011	<10	**6.5**	<2.0	**2.4**	<2.0	<2.0	**190**	**100**	**2.3**	<2.0
	10/10/2011	<1.0	**5.8**	<2.0	<2.0	<2.0	<2.0	**190**	**110**	**3.1**	<2.0
MW-20d (38.5-43.5')	12/30/2009	<5.0	**1.2**	<1.0	**86**	<1.0	<1.0	**1.9**	<1.0	<1.0	**3.5**
	1/13/2010	<5.0	<1.0	<1.0	**94**	**2.0**	<1.0	<1.0	<1.0	<1.0	**3.7**
	3/17/2010	<5.0	<1.0	<1.0	**85**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.4**
	5/18/2010	<5.0	<1.0	<1.0	**120**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.7**
	9/8/2010	<5.0	<1.0	<1.0	**95**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/21/2010	<5.0	<1.0	<1.0	**200**	<1.0	<1.0	<1.0	<1.0	<1.0	**3.5**
	2/18/2011	<10	<2.0	<2.0	**190**	<2.0	<2.0	<2.0	<2.0	<2.0	**3.2**
	5/13/2011	<10	<2.0	<2.0	**170**	<2.0	<2.0	<2.0	<2.0	<2.0	**2.6**
	7/25/2011	<5.0	<1.0	<1.0	**170**	<1.0	<1.0	<1.0	<1.0	<1.0	**2.6**
	10/10/2011	<1.0	<2.0	<2.0	**200**	<2.0	<2.0	<2.0	<2.0	<2.0	**2.5**
DUP-03 (MW-20d)	5/18/2010	<5.0	<1.0	<1.0	**120**	**1.0**	<1.0	<1.0	<1.0	<1.0	**3.7**

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Residential and Industrial Drinking Water (DW) Criteria, Groundwater Surface Water Interface (GSI) Criteria, and Groundwater Contact Criteria from MDEQ RRD Op Memo 1 Part 201 Generic Cleanup Criteria/Part 213 Risk Based Cleanup Levels, January 23, 2006, as amended March 25, 2011.
Groundwater Screening Levels (GWSLs) for Vapor Intrusion were calculated in accordance with the MDEQ Remediation and Redevelopment Division Program Redesign 2009 document titled *Background Document: Draft Proposed Vapor Intrusion Indoor Air Criteria (IAC), Soil Gas Criteria (SGC), and Groundwater Screening Levels (GW_{vi} SLs) for Vapor Intrusion*, using both residential and non-residential exposure scenarios and the most recent chemical specific toxicity values accepted and/or published by the United States Environmental Protection Agency (USEPA). Proposed GWSLs were approved by USEPA in a comment letter dated August 24, 2010.
ug/L = micrograms per liter
NC = No criteria
NA = Not analyzed
Bold font denotes concentrations detected above laboratory reporting limits
Denotes concentrations above one or more criteria
1) Criterion is not protective for surface water used as a drinking water source as described in footnote {X} of MDEQ Op Memo 1 Part 201, Attachment 1.
2) Compound may exhibit characteristic ignitability as defined in 40 C.F.R. § 261.21
3) The average temperature in this sample shipment exceeded the recommended temperature range. Sample results are approximate.
4) Quality control results for trichloroethene are outside the established control limits, the result is approximate.

Table 3
Summary of Detected Volatile Organic Compounds in Groundwater
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Analyte		2-Butanone	1,1-Dichloroethane	1,1-Dichloroethene[2]	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichloro-fluoromethane	Vinyl Chloride
Residential DW Criteria		13,000	880	7.0	70	100	5.0	200	5.0	2,600	2.0
Industrial DW Criteria		38,000	2,500	7.0	70	100	5.0	200	5.0	7,300	2.0
GSI Criteria		2,200	740	130	620	1,500[1]	60[1]	89	200[1]	NC	13[1]
Residential GWSLs for Vapor Intrusion		4.6E+06	130	390	440	330	11	15,000	58	370	5.0
Non-Residential GWSLs for Vapor Intrusion		6.4E+06	440	550	610	460	37	21,000	190	510	17
Groundwater Contact Criteria		2.4E+08	2.4E+06	11,000	2.0E+05	2.2E+05	12,000	1.3E+06	22,000	1.1E+06	1,000
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-21 (28.5-33.5')	12/8/2009	<50	**31**	<10	**59**	<10	<10	**54**	**840**	<10	<10
	1/13/2010	<50	**28**	<10	**62**	<10	<10	**56**	**730**	<10	<10
	3/23/2010	<5.0	**33**	**2.2**	**81**	**7.5**	<1.0	**62**	**850**	<1.0	<1.0
	5/18/2010	<50	**35**	<10	**89**	<10	<10	**63**	**830**	<10	<10
	10/15/2010	<50	**26**	<10	**80**	<10	<10	**59**	**810**	<10	<10
	12/22/2010	<50	**25**	<10	**69**	<10	<10	**55**	**730**	<10	<10
	2/24/2011	<50	**25**	<10	**66**	<10	<10	**52**	**730**	<10	<10
	5/11/2011[3]	<50	**24**	<10	**65**	<10	<10	**49**	**740**	<10	<10
	7/28/2011	<50	**22**	<10	**77**	<10	<10	**54**	**1,000**	<10	<10
	10/6/2011	<5.0	**22**	<1.0	**74**	<1.0	<1.0	**55**	**960**	<1.0	<1.0
DUP-02 (MW-21)	3/23/2010	<5.0	**33**	**2.2**	**79**	**7.8**	<1.0	**61**	**810**	<1.0	<1.0
DUP-03 (MW-21)	2/24/2011	<50	**24**	<10	**66**	<10	<10	**50**	**740**	<10	<10
	5/11/2011[3]	<50	**24**	<10	**66**	<10	<10	**49**	**750**	<10	<10
	7/28/2011	<50	**23**	<10	**78**	<10	<10	**57**	**1,000**	<10	<10
	10/6/2011	<5.0	**21**	<1.0	**73**	<1.0	<1.0	**52**	**910**	<1.0	<1.0
MW-22 (25-30')	12/7/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**10**
	3/18/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**8.5**
	5/18/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.0**
	9/9/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.3**
	12/22/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.0**
	2/24/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.3**
	5/11/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**
	7/21/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.8**
	10/4/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**6.2**
MW-23 (17-22')	12/8/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.2**
	1/13/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.6**
	3/16/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.0**
	5/18/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**6.1**
	9/9/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**9.0**
	12/21/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**17**
	2/18/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**18**
	5/10/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**25**
	7/25/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**23**
	11/4/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**11**

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Fourth Quarter 2011

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Residential DW Criteria		13,000	880	7.0	70	100	5.0	200	5.0	2,600	2.0
Industrial DW Criteria		38,000	2,500	7.0	70	100	5.0	200	5.0	7,300	2.0
GSI Criteria		2,200	740	130	620	1,500[1]	60[1]	89	200[1]	NC	13[1]
Residential GWSLs for Vapor Intrusion		4.6E+06	130	390	440	330	11	15,000	58	370	5.0
Non-Residential GWSLs for Vapor Intrusion		6.4E+06	440	550	610	460	37	21,000	190	510	17
Groundwater Contact Criteria		2.4E+08	2.4E+06	11,000	2.0E+05	2.2E+05	12,000	1.3E+06	22,000	1.1E+06	1,000
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-24s (18.5'-23.5')	12/8/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/15/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/14/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/14/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/9/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/19/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/4/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-24d (39-44')	12/8/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	3/15/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/14/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/14/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/9/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/19/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/4/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-25s (20-25')	12/10/2009	<5.0	**1.7**	<1.0	**8.8**	<1.0	<1.0	**4.8**	<1.0	<1.0	<1.0
	3/16/2010	<5.0	**1.2**	<1.0	<1.0	<1.0	<1.0	**17**	**1.1**	<1.0	<1.0
	5/14/2010	<5.0	**1.2**	<1.0	<1.0	<1.0	<1.0	**18**	**1.0**	<1.0	<1.0
	9/9/2010	<5.0	**1.0**	<1.0	<1.0	<1.0	<1.0	**19**	**1.4**	<1.0	<1.0
	12/22/2010	<5.0	**1.2**	<1.0	<1.0	<1.0	<1.0	**26**	**2.4**	<1.0	<1.0
	2/24/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**19**	**2.2**	<1.0	<1.0
	5/13/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**21**	**2.2**	<1.0	<1.0
	7/28/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**19**	**2.5**	<1.0	<1.0
	10/10/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**20**	**2.8**	<1.0	<1.0
DUP-01 (MW-25s)	3/16/2010	<5.0	**1.3**	<1.0	<1.0	<1.0	<1.0	**18**	**1.0**	<1.0	<1.0
MW-26s (28-33')	4/6/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/14/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/10/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/17/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/25/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/7/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:
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Table 3
Summary of Detected Volatile Organic Compounds in Groundwater
Former Tecumseh Products Company Site
Tecumseh, Michigan
Fourth Quarter 2011

Analyte		2-Butanone	1,1-Dichloroethane	1,1-Dichloroethene[2]	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichloro-fluoromethane	Vinyl Chloride
Residential DW Criteria		13,000	880	7.0	70	100	5.0	200	5.0	2,600	2.0
Industrial DW Criteria		38,000	2,500	7.0	70	100	5.0	200	5.0	7,300	2.0
GSI Criteria		2,200	740	130	620	1,500[1]	60[1]	89	200[1]	NC	13[1]
Residential GWSLs for Vapor Intrusion		4.6E+06	130	390	440	330	11	15,000	58	370	5.0
Non-Residential GWSLs for Vapor Intrusion		6.4E+06	440	550	610	460	37	21,000	190	510	17
Groundwater Contact Criteria		2.4E+08	2.4E+06	11,000	2.0E+05	2.2E+05	12,000	1.3E+06	22,000	1.1E+06	1,000
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-27s (7-12')	3/23/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.0**	<1.0	<1.0
	9/9/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/20/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/16/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0
	5/9/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0
	7/21/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/5/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DUP-02 (MW-27s)	9/9/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-27d (37.5-42.5')	3/23/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/9/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/20/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/16/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/9/2011[3]	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/22/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/5/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-28s (25-30')	3/23/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/16/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/22/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/7/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-28d (49-54')	3/23/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
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	2/16/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/22/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/7/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

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Groundwater Contact Criteria		2.4E+08	2.4E+06	11,000	2.0E+05	2.2E+05	12,000	1.3E+06	22,000	1.1E+06	1,000
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-29s (13-18')	3/18/2010	<5.0	<1.0	<1.0	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/17/2010	<5.0	<1.0	<1.0	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/17/2010	<5.0	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/15/2010	<5.0	<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/15/2011	<5.0	<1.0	<1.0	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/20/2011	<5.0	<1.0	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/10/2011	<5.0	<1.0	<1.0	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-29d (58.5-63.5')	3/18/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/15/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/15/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/12/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/20/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/10/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-30s (11-16')	3/23/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/16/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/15/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/13/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/20/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/10/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-30d (25.5-30.5')	3/23/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/17/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	9/10/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/16/2010	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	2/15/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	5/13/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	7/20/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	10/10/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-31 (33.3-38.3')	6/18/2010	<5.0	**14**	<1.0	**19**	**2.2**	<1.0	**20**	**180**	<1.0	<1.0
	9/9/2010	<10	<2.0	<2.0	**15**	<2.0	<2.0	**48**	**220**	<2.0	**2.5**
	12/22/2010[4]	<10	**16**	<2.0	**29**	**2.9**	<2.0	**27**	**260**	<2.0	<2.0
	2/24/2011	<10	**16**	<2.0	**31**	**3.1**	<2.0	**26**	**300**	<2.0	<2.0
	5/11/2011[3]	<10	**15**	<2.0	**24**	**3.0**	<2.0	**22**	**250**	<2.0	<2.0
	7/21/2011	<5.0	**7.4**	<1.0	**14**	**1.2**	<1.0	**11**	**130**	<1.0	<1.0
	10/4/2011	<5.0	**18**	<1.0	**40**	**3.4**	<1.0	**28**	**340**	<1.0	<1.0

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Groundwater Contact Criteria		2.4E+08	2.4E+06	11,000	2.0E+05	2.2E+05	12,000	1.3E+06	22,000	1.1E+06	1,000
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP-01 (MW-31)	6/18/2010	<5.0	**12**	<1.0	**19**	**2.3**	<1.0	**21**	**170**	<1.0	<1.0
MW-32s (23-28')	9/10/2010	<100	**150**	<20	**270**	**26**	<20	**220**	**2,400**	<20	<20
	11/18/2010	<100	<20	<20	**190**	<20	<20	**560**	**2,800**	<20	<20
	12/28/2010	<100	<20	<20	**200**	<20	<20	**510**	**2,300**	<20	<20
	2/25/2011	<100	<20	<20	**190**	<20	<20	**420**	**2,300**	<20	<20
	5/10/2011[3]	<100	<20	<20	**170**	<20	<20	**380**	**2,300**	<20	**31**
	7/28/2011	<100	<20	<20	**140**	<20	<20	**380**	**2,400**	<20	<20
	10/6/2011	<1.00	<2.0	<2.0	**160**	<2.0	<2.0	**350**	**2,200**	<2.0	<2.0
MW-33s (21-26')	9/10/2010	<5.0	**12**	<1.0	**13**	<1.0	<1.0	<1.0	**76**	<1.0	**64**
	11/18/2010	<5.0	**14**	<1.0	**22**	<1.0	<1.0	**1.1**	**150**	<1.0	**56**
	12/22/2010	<5.0	**14**	<1.0	**22**	**1.2**	<1.0	**1.0**	**130**	<1.0	**57**
	2/24/2011	<5.0	**12**	<1.0	**20**	**1.0**	<1.0	<1.0	**110**	<1.0	**60**
	5/10/2011[3]	<10	**11**	<2.0	**21**	<2.0	<2.0	<2.0	**220**	<2.0	**55**
	7/28/2011	<10	**8.9**	<2.0	**18**	<2.0	<2.0	<2.0	**260**	<2.0	**22**
	10/6/2011	<1.0	**11**	<2.0	**19**	<2.0	<2.0	<2.0	**220**	<2.0	**48**
DUP-01 (MW-33s)	11/18/2010	<5.0	**14**	<1.0	**23**	<1.0	<1.0	**1.2**	**150**	<1.0	**55**
MW-34s (23-28')	9/17/2010	<100	<20	<20	<20	<20	<20	**1,600**	**1,100**	<20	<20
	11/18/2010	<100	<20	<20	<20	<20	<20	**1,600**	**1,200**	<20	<20
	12/28/2010	<50	<10	**13**	<10	<10	<10	**1,400**	**1,000**	<10	<10
	2/25/2011	<50	<10	<10	<10	<10	<10	**1,100**	**900**	<10	<10
	5/10/2011[3]	<50	<10	<10	<10	<10	<10	**1,200**	**970**	<10	<10
	7/28/2011	<50	<10	<10	<10	<10	<10	**1,300**	**1,100**	<10	<10
	10/6/2011	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1,200**	**1,000**	<1.0	<1.0

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NC = No criteria
NA = Not analyzed
Bold font denotes concentrations detected above laboratory reporting limits
Denotes concentrations above one or more criteria
1) Criterion is not protective for surface water used as a drinking water source as described in footnote {X} of MDEQ Op Memo 1 Part 201, Attachment 1.
2) Compound may exhibit characteristic ignitability as defined in 40 C.F.R. § 261.21
3) The average temperature in this sample shipment exceeded the recommended temperature range. Sample results are approximate.
4) Quality control results for trichloroethene are outside the established control limits, the result is approximate.

Table 4
Summary of Monitored Natural Attenuation Parameters in Groundwater
Tecumseh Products Company
Tecumseh, Michigan
Fourth Quarter 2011

Analyte		Chloride	Nitrate as Nitrogen	Sulfate	Iron II	Alkalinity	Total Organic Carbon
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-01s	12/9/2009	**34**	**3.0**	**20**	**0.31**	NA	NA
	5/18/2010	**31**	**3.3**	**18**	**0.027**	NA	NA
	12/28/2010	**20**	**2.5**	**16**	**0.023**	NA	NA
	5/11/2011	**50**	**2.8**	**23**	**0.031**	NA	NA
	10/6/2011	**70**	**3.1**	**22**	**0.041**	NA	NA
MW-03s	12/8/2009	**220**	**2.1**	**37**	**0.11**	NA	NA
	5/18/2010	**130**	**0.36**	**35**	**0.059**	NA	NA
	12/22/2010	**170**	**0.33**	**30**	**0.034**	NA	NA
	5/10/2011	**130**	**0.56**	**39**	**0.028**	NA	NA
	10/6/2011	**210**	**1.0**	**36**	**0.32**	NA	NA
DUP-01 (MW-03s)	12/8/2009	**220**	**2.1**	**37**	**0.12**	NA	NA
MW-04s	12/9/2009	**100**	**6.8**	**27**	**0.079**	**430**	**4.4**
	5/18/2010	**76**	**0.87**	**17**	**0.040**	NA	NA
	12/22/2010	**60**	<0.050	**9.5**	<0.020	NA	NA
	5/11/2011	**62**	**0.17**	**20**	**0.036**	NA	NA
	10/6/2011	**76**	<0.050	**8.5**	**0.13**	NA	NA
MW-06s	12/9/2009	**60**	**3.0**	**40**	**1.6**	NA	NA
	5/17/2010	**35**	**7.5**	**37**	**0.027**	NA	NA
	12/21/2010	**86**	**5.7**	**53**	<0.020	NA	NA
	5/10/2011	**68**	**8.2**	**42**	**0.030**	NA	NA
	10/5/2011	**170**	**6.3**	**44**	**0.026**	NA	NA
MW-09s	12/9/2009	**63**	**1.8**	**24**	**0.23**	NA	NA
	5/18/2010	**13**	**1.4**	**8.9**	**0.053**	NA	NA
	5/11/2011	**5.9**	**1.2**	**5.7**	**0.046**	NA	NA
MW-10s	5/12/2010	**11**	<0.050	**26**	**0.048**	NA	NA
	12/16/2010	**180**	<0.050	**49**	**0.20**	NA	NA
	5/9/2011	**7.8**	<0.050	**28**	**0.028**	NA	NA
	10/4/2011	**97**	<0.050	**36**	**0.10**	NA	NA
MW-10d	12/9/2009	**210**	<0.050	**44**	**0.48**	NA	NA
MW-14s	12/8/2009	**250**	**0.26**	**23**	**0.071**	NA	NA
	5/12/2010	**46**	**0.12**	**20**	<0.020	NA	NA
	12/20/2010	**410**	**0.24**	**26**	**0.032**	NA	NA
MW-14d	5/9/2011	**170**	**0.15**	**73**	**0.043**	NA	NA
	10/5/2011	**150**	**0.26**	**61**	**0.23**	NA	NA
DUP-01 (MW-14d)	5/9/2011	**170**	**0.16**	**72**	<0.020	NA	NA
	10/5/2011	**150**	**0.26**	**61**	**0.038**	NA	NA
MW-17s	12/7/2009	**88**	<0.050	**37**	**0.15**	NA	NA
	5/12/2010	**87**	**0.086**	**36**	<0.02	NA	NA
	12/16/2010	**95**	<0.050	**38**	**0.13**	NA	NA
	5/11/2011	**98**	<0.050	**39**	**0.062**	NA	NA
	10/4/2011	**91**	**0.051**	**40**	**0.062**	NA	NA

Notes:
mg/L = milligrams per liter
NA = Not Analyzed
bold font denotes concentrations detected above laboratory reporting limits

Table 4
Summary of Monitored Natural Attenuation Parameters in Groundwater
Tecumseh Products Company
Tecumseh, Michigan
Fourth Quarter 2011

Analyte		Chloride	Nitrate as Nitrogen	Sulfate	Iron II	Alkalinity	Total Organic Carbon
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-18s	12/8/2009	**140**	**1.9**	**47**	**0.44**	NA	NA
	5/12/2010	**370**	**2.0**	**47**	<0.020	NA	NA
	12/20/2010	**180**	**2.6**	**39**	**0.030**	NA	NA
	5/9/2011	**600**	**2.3**	**46**	**0.028**	NA	NA
	10/5/2011	**230**	**2.1**	**38**	**0.034**	NA	NA
MW-19s	12/8/2009	**140**	**2.9**	**32**	**0.073**	**380**	**1.0**
	5/18/2010	**100**	**1.4**	**38**	**0.064**	NA	NA
	12/20/2010	**120**	**3.0**	**32**	<0.020	NA	NA
	5/10/2011	**120**	**2.0**	**34**	**0.035**	NA	NA
	10/5/2011	**120**	**2.4**	**32**	**0.029**	NA	NA
DUP-02 (MW-19s)	5/12/2010	**120**	<0.050	**65**	**0.93**	NA	NA
	5/9/2011	**110**	**2.0**	**34**	**0.026**	NA	NA
	10/5/2011	**120**	**2.4**	**32**	**0.030**	NA	NA
MW-19d	12/8/2009	**150**	<0.050	**64**	**5.0**	**320**	**1.1**
	5/12/2010	**150**	<0.050	**64**	**1.0**	NA	NA
	12/20/2010	**140**	<0.050	**62**	**1.0**	NA	NA
	5/10/2011	**180**	<0.050	**61**	**1.4**	NA	NA
	10/5/2011	**130**	<0.050	**62**	**1.1**	NA	NA
MW-21	12/8/2009	**150**	**0.66**	**46**	**0.11**	NA	NA
	5/18/2010	**150**	**0.55**	**38**	**0.060**	NA	NA
	12/22/2010	**110**	**0.81**	**41**	**0.020**	NA	NA
	5/11/2011	**110**	**0.57**	**34**	<0.020	NA	NA
	10/6/2011	**120**	**0.78**	**41**	**0.087**	NA	NA
DUP-03 (MW-21)	5/9/2011	**110**	**0.61**	**34**	**0.024**	NA	NA
MW-23	12/8/2009	**300**	<0.050	**63**	**4.0**	NA	NA
	5/18/2010	**260**	<0.050	**59**	**2.4**	NA	NA
	12/21/2010	**240**	<0.050	**60**	**0.24**	NA	NA
	5/10/2011	**220**	<0.050	**56**	**1.20**	NA	NA
	10/5/2011	**210**	<0.050	**56**	**1.5**	NA	NA
MW-24s	12/8/2009	**350**	**3.3**	**93**	**0.13**	**340**	**1.6**
	5/12/2010	**230**	**3.5**	**47**	**0.037**	NA	NA
	12/14/2010	**140**	**3.7**	**93**	<0.020	NA	NA
	5/9/2011	**110**	**1.4**	**46**	**0.029**	NA	NA
	10/4/2011	**200**	**2.8**	**75**	**0.028**	NA	NA
MW-24d	12/8/2009	**1,100**	<0.050	**110**	**6.4**	**350**	**1.3**
	5/12/2010	**1,000**	<0.050	**100**	**2.0**	NA	NA
	12/14/2010	**1,100**	<0.050	**110**	**1.4**	NA	NA
	5/9/2011	**930**	<0.050	**110**	**1.6**	NA	NA
	10/4/2011	**910**	<0.050	**99**	**1.1**	NA	NA
MW-27s	5/17/2010	**190**	**0.23**	**40**	**0.27**	NA	NA
	12/20/2010	**220**	**0.065**	**53**	**0.15**	NA	NA
	5/9/2011	**180**	**2.9**	**48**	**0.024**	NA	NA
	10/5/2011	**210**	**1.4**	**54**	**0.083**	NA	NA

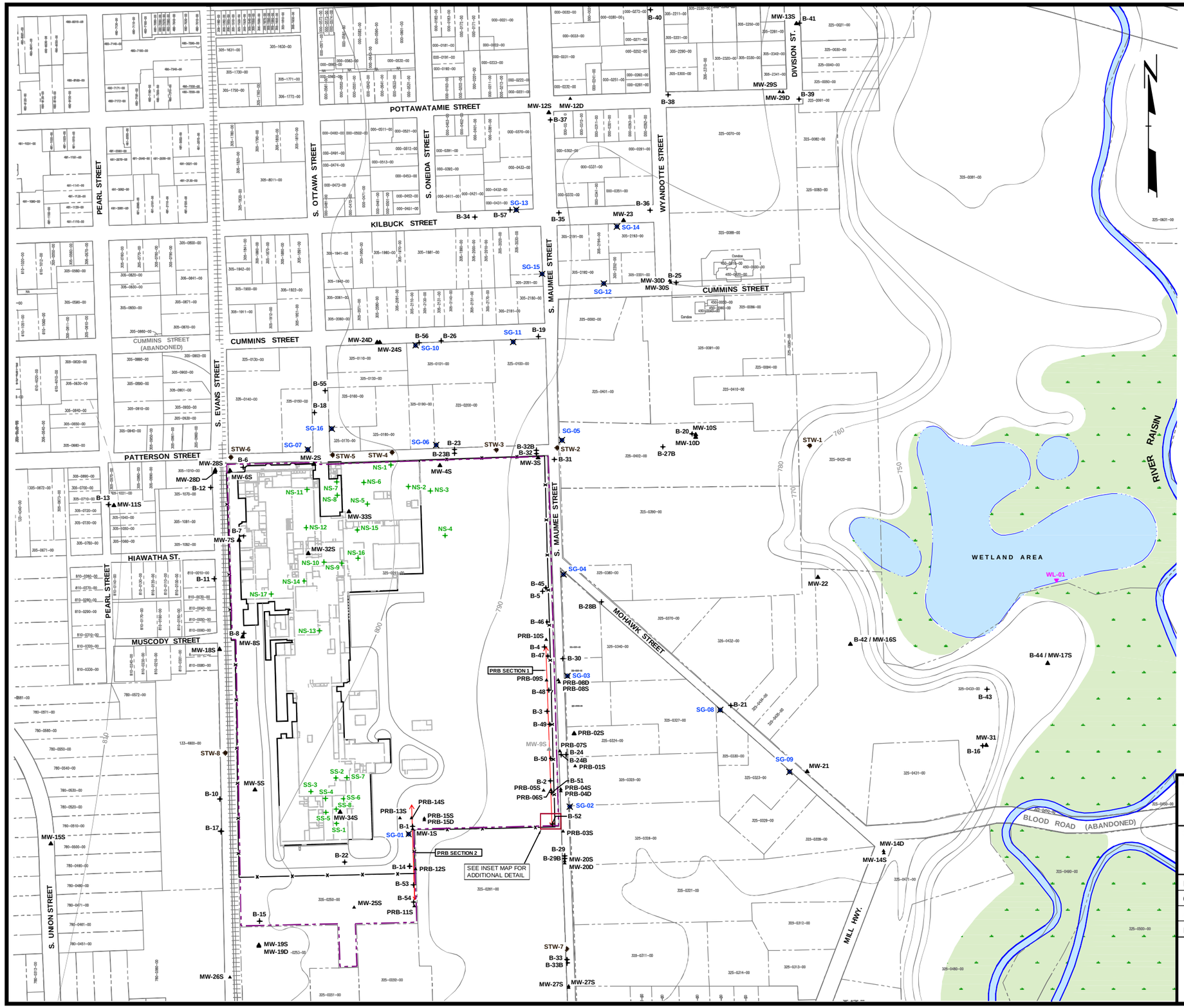
Notes:
mg/L = milligrams per liter
NA = Not Analyzed
bold font denotes concentrations detected above laboratory reporting limits

Table 4
Summary of Monitored Natural Attenuation Parameters in Groundwater
Tecumseh Products Company
Tecumseh, Michigan
Fourth Quarter 2011

Analyte		Chloride	Nitrate as Nitrogen	Sulfate	Iron II	Alkalinity	Total Organic Carbon
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-27d	5/17/2010	**220**	**0.59**	**62**	**0.047**	NA	NA
	12/20/2010	**240**	**0.39**	**67**	**0.13**	NA	NA
	5/9/2011	**200**	**0.45**	**63**	**0.20**	NA	NA
	10/5/2011	**230**	**0.31**	**66**	**0.22**	NA	NA
MW-32s	12/28/2010	**66**	**1.8**	**39**	**0.048**	NA	NA
	5/10/2011	**66**	**1.4**	**22**	**0.10**	NA	NA
	10/6/2011	**68**	**3.3**	**39**	**0.039**	NA	NA
MW-33s	12/22/2010	**93**	**3.7**	**7.4**	**0.95**	NA	NA
	5/10/2011	**160**	**13**	**26**	**0.35**	NA	NA
	10/6/2011	**94**	**2.9**	**18**	**0.57**	NA	NA
MW-34s	12/28/2010	**39**	**2.3**	**15**	<0.020	NA	NA
	5/10/2011	**59**	**3.5**	**24**	**0.028**	NA	NA
	10/6/2011	**46**	**1.4**	**13**	**0.14**	NA	NA

Notes:
mg/L = milligrams per liter
NA = Not Analyzed
bold font denotes concentrations detected above laboratory reporting limits

Figures

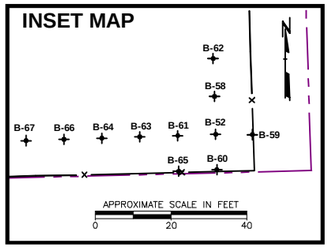


LEGEND

- FORMER TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- 750 — APPROXIMATE GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP
- B-2 — PERIMETER / OFF-SITE INVESTIGATION SOIL BORING LOCATION AND NUMBER
- MW-4S — MONITORING WELL LOCATION AND NUMBER
- MW-9S — DECOMMISSIONED MONITORING WELL LOCATION AND NUMBER
- SS-2 — SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- SG-02 — SOIL GAS SAMPLE LOCATION AND NUMBER
- STW-2 — STORM WATER SEWER SAMPLE LOCATION AND NUMBE
- WL-01 — WETLAND SURFACE WATER SAMPLE LOCATION
- FLOODPLAIN / WOODED WETLAND AREA
- PRB LOCATION
- X — FENCE LINE

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
2. GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S TOPOGRAPHIC QUADRANGLE MAP AND GROUND SURVEY DATA.



APPROXIMATE HORIZONTAL SCALE

0 400' 800'

PROJECT:

FORMER TECUMSEH PRODUCTS SITE
TECUMSEH, MICHIGAN

SHEET TITLE:

SURFACE TOPOGRAPHY AND SAMPLE LOCATIONS

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CHECKED BY: SEM	AS INDICATED	FILE NO.	004304.02.01.dwg
APPROVED BY: GC	DATE PRINTED:	FIGURE 1	
DATE: DECEMBER 2011			

TRC
1540 Eisenhower Place
Ann Arbor, MI 48108
Phone: 734.971.7080
Fax: 734.971.9022

PLOT DATA
Drawing Name: J:_TRC\Tecumseh Products\TECUMSEH\004304\02\2011 4Q RPT\004304.02.01.dwg
Operator Name: STEHLE, DIANAH
Drawing Plot Scale: 0.386863
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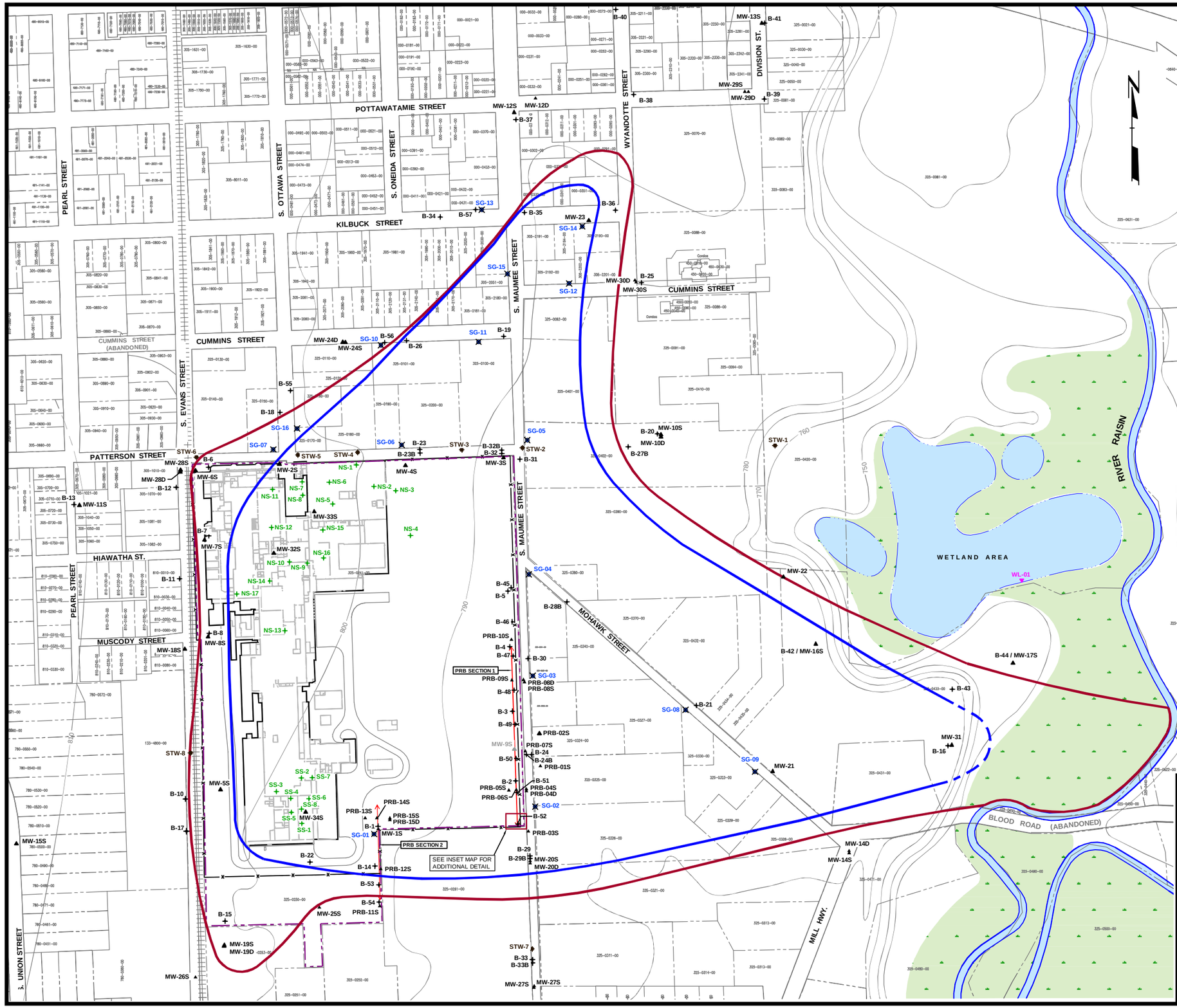
Plot Time: 3:22 PM
Attached Xref's: bm033109
Attached Images:
Layout: FIG01 Surf Topo & Sample Locs

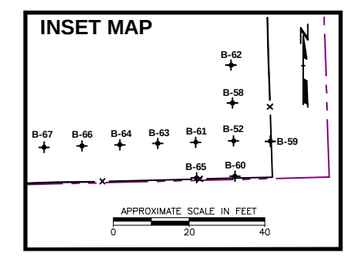


LEGEND

- FORMER TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- 750 — APPROXIMATE GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP
- B-2 — PERIMETER / OFF-SITE INVESTIGATION SOIL BORING LOCATION AND NUMBER
- MW-4S — MONITORING WELL LOCATION AND NUMBER
- MW-9S — DECOMMISSIONED MONITORING WELL LOCATION AND NUMBER
- SS-2 — SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- SG-02 — SOIL GAS SAMPLE LOCATION AND NUMBER
- STW-2 — STORM WATER SEWER SAMPLE LOCATION AND NUMBER
- WL-01 — WETLAND SURFACE WATER SAMPLE LOCATION
- FLOODPLAIN / WOODED WETLAND AREA
- PRB LOCATION
- FENCE LINE
- EXTENT OF VOCs ABOVE PART 201 DRINKING WATER CRITERIA
- EXTENT OF VOCs ABOVE PART 201 GSI CRITERIA

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
2. GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S TOPOGRAPHIC QUADRANGLE MAP AND GROUND SURVEY DATA.



APPROXIMATE HORIZONTAL SCALE

0 400' 800'

PROJECT:

FORMER TECUMSEH PRODUCTS SITE
TECUMSEH, MICHIGAN

SHEET TITLE:

EXTENT OF VOCs ABOVE PART 201 CRITERIA

DRAWN BY: SJL/DGS	SCALE:	PROJ. NO.	004304.02
CHECKED BY: SEM	AS INDICATED	FILE NO.	004304.02.02.dwg
APPROVED BY: GC	DATE PRINTED:	**FIGURE 2**	
DATE: DECEMBER 2011			

TRC
1540 Eisenhower Place
Ann Arbor, MI 48108
Phone: 734.971.7080
Fax: 734.971.9022

bm033109
FIG 2_Page_1:
FIG02 VOCs DW Above 201
Attached Xref's:
Attached Images:
Layout:

Dwg Size: 2.17 Mb
Plot Date: January 6, 2012
Plot Time: 3:24 PM

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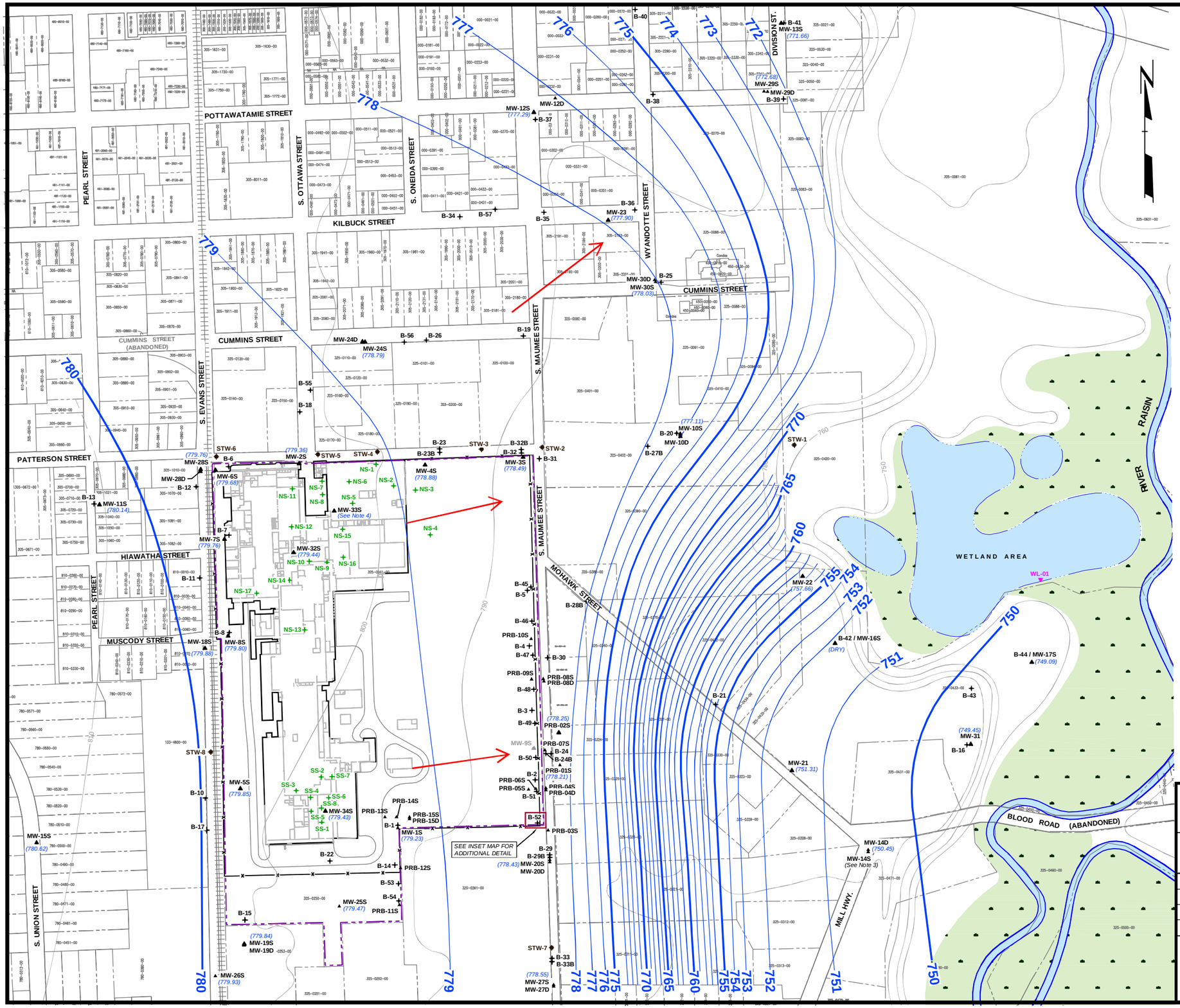
Operator Name: STEHLE, DIANAH
Drawing Plot Scale: 0.386863

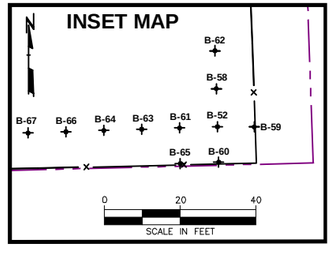


LEGEND

- FORMER TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- 750 — APPROXIMATE GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP
- B-2 — PERIMETER / OFF-SITE INVESTIGATION SOIL BORING LOCATION AND NUMBER
- MW-4S — MONITORING WELL LOCATION AND NUMBER
- MW-9S — DECOMMISSIONED MONITORING WELL LOCATION AND NUMBER
- SS-2 — SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- STW-2 — STORM WATER SEWER SAMPLE LOCATION AND NUMBER
- WL-01 — WETLAND SURFACE WATER SAMPLE LOCATION
- 770 — 5 FOOT GROUNDWATER CONTOUR LINE
- 771 — 1 FOOT GROUNDWATER CONTOUR LINE
- GROUNDWATER FLOW DIRECTION
- (780.42) — GROUNDWATER ELEVATION
- FLOODPLAIN / WOODED WETLAND AREA
- FENCE LINE

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
2. GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S TOPOGRAPHIC QUADRANGLE MAP AND GROUND SURVEY DATA.
3. MW-14S IS SCREENED IN A DIFFERENT, PERCHED, WATER BEARING UNIT THAN THE OTHER SHALLOW MONITORING WELLS ON-SITE. THE GROUNDWATER ELEVATION MEASURED AT MW-14D WAS USED TO DEVELOP GROUNDWATER CONTOURS, BECAUSE MW-14D IS SCREENED IN THE DEEPER WATER BEARING UNIT WHICH IS HYDRAULICALLY CONNECTED TO THE SITE.
4. MEASURED DEPTH TO WATER IS ANOMALOUS. DATUM WAS NOT USED.



0 400' 800'
HORIZONTAL SCALE

PROJECT: FORMER TECUMSEH PRODUCTS SITE
TECUMSEH, MICHIGAN

TITLE: GROUNDWATER CONTOUR MAP
OCTOBER 2011

DRAWN BY: SJL/DGS	SCALE:	PROJ. NO.	004304.02
CHECKED BY: SEM	AS INDICATED	FILE NO.	004304.02.03.dwg
APPROVED BY: GC	DATE PRINTED:	FIGURE 3	
DATE: DECEMBER 2011			

TRC
1540 Eisenhower Place
Ann Arbor, MI 48108
Phone: 734.971.7080
Fax: 734.971.9022

PLOT DATA
Drawing Name: J:_TRC\Tecumseh Products\TECUMSEH\004304\02\2011 4Q RPT\004304.02.03.dwg
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Dwg Size: 1.87 Mb
Plot Date: January 12, 2012
Plot Time: 12:15 PM
Attached Xrefs: bm033109
Attached Images: FIG03 GW Cont Dec2011
Layout:

Attachment 1

Fourth Quarter 2011 Analytical Data

October 21, 2011

TRC Companies. - Ann Arbor Office
Attn: Ms. Stacy Metz
3754 Ranchero Drive
Ann Arbor, MI 48108-2771

Project: Tecumseh Products

Dear Ms. Stacy Metz,

Enclosed is a copy of the laboratory report for the following work order(s) received by TriMatrix Laboratories:

Work Order	Received	Description
1110049	10/05/2011	Laboratory Services
1110100	10/06/2011	Laboratory Services
1110125	10/07/2011	Laboratory Services
1110196	10/11/2011	Laboratory Services

This report relates only to the sample(s) as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) and/or one of the following certification programs:

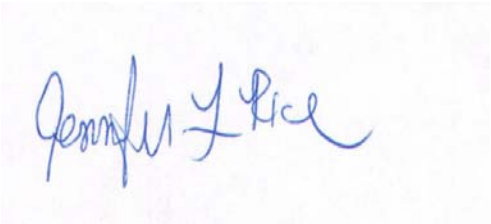
ACLASS DoD-ELAP (#ADE-1542); Arkansas DEP (#10-046-0); Florida DEP (#E87622-05); Georgia EPD (#E87622-05); Illinois DEP (#002656); Kansas DPH (#E-10302); Kentucky DEP (#0021); Louisiana DEP (#03068); Michigan DPH (#0034); Minnesota DPH (#026-999-161); New York ELAP (#44950); North Carolina DNRE (#659); Rhode Island DPH (#E87622); Texas CEQ (#T104704495-11-1); Virginia DCLS (#919); Wisconsin DNR (#999472650).

Any qualification or narration of results, including sample acceptance requirements and test exceptions to the above referenced programs, is presented in the Statement of Data Qualifications section of this report. Estimates of analytical uncertainties and certification documents for the test results contained within this report are available upon request.

This report shall not be reproduced, except in full, without written authorization of TriMatrix Laboratories, Inc.
Individual sample results relate only to the sample tested.
5560 Corporate Exchange Court SE ♦ Grand Rapids, MI 49512 ♦ 616.975.4500 ♦ Fax 616.942.7463 ♦ www.trimatrixlabs.com

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,



Jennifer L. Rice
Project Chemist

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Individual sample results relate only to the sample tested.
5560 Corporate Exchange Court SE ♦ Grand Rapids, MI 49512 ♦ 616.975.4500 ♦ Fax 616.942.7463 ♦ www.trimatrixlabs.com

TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-17s**	Sampled:	10/04/11 10:51
Lab Sample ID:	**1110049-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-17s**	Sampled:	10/04/11 10:51
Lab Sample ID:	**1110049-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-17s**	Sampled:	10/04/11 10:51
Lab Sample ID:	**1110049-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*106*	*88-116*
1,2-Dichloroethane-d4	*108*	*87-123*
Toluene-d8	*103*	*91-107*
4-Bromofluorobenzene	*99*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**WL-01**	Sampled:	10/04/11 11:03
Lab Sample ID:	**1110049-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**WL-01**	Sampled:	10/04/11 11:03
Lab Sample ID:	**1110049-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**WL-01**	Sampled:	10/04/11 11:03
Lab Sample ID:	**1110049-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*105*	*88-116*
1,2-Dichloroethane-d4	*106*	*87-123*
Toluene-d8	*104*	*91-107*
4-Bromofluorobenzene	*97*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-22**	Sampled:	10/04/11 12:08
Lab Sample ID:	**1110049-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-22**	Sampled:	10/04/11 12:08
Lab Sample ID:	**1110049-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-22**	Sampled:	10/04/11 12:08
Lab Sample ID:	**1110049-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**6.2**	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*105*	*88-116*
1,2-Dichloroethane-d4	*107*	*87-123*
Toluene-d8	*103*	*91-107*
4-Bromofluorobenzene	*97*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-31**	Sampled:	10/04/11 13:14
Lab Sample ID:	**1110049-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	**18**	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	**40**	1.0
156-60-5	trans-1,2-Dichloroethene	**3.4**	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-31**	Sampled:	10/04/11 13:14
Lab Sample ID:	**1110049-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	**28**	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
*79-01-6	Trichloroethene	**340**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-31**	Sampled:	10/04/11 13:14
Lab Sample ID:	**1110049-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*103*	*88-116*
1,2-Dichloroethane-d4	*107*	*87-123*
Toluene-d8	*101*	*91-107*
4-Bromofluorobenzene	*95*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-31**	Sampled:	10/04/11 13:14
Lab Sample ID:	**1110049-04RE1**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	2.5	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<50	50
107-13-1	Acrylonitrile	<5.0	5.0
71-43-2	Benzene	<2.5	2.5
108-86-1	Bromobenzene	<2.5	2.5
74-97-5	Bromochloromethane	<2.5	2.5
75-27-4	Bromodichloromethane	<2.5	2.5
75-25-2	Bromoform	<2.5	2.5
74-83-9	Bromomethane	<12	12
104-51-8	n-Butylbenzene	<2.5	2.5
135-98-8	sec-Butylbenzene	<2.5	2.5
98-06-6	tert-Butylbenzene	<2.5	2.5
75-15-0	Carbon Disulfide	<2.5	2.5
56-23-5	Carbon Tetrachloride	<2.5	2.5
108-90-7	Chlorobenzene	<2.5	2.5
75-00-3	Chloroethane	<12	12
67-66-3	Chloroform	<2.5	2.5
74-87-3	Chloromethane	<12	12
96-12-8	1,2-Dibromo-3-chloropropane	<12	12
124-48-1	Dibromochloromethane	<2.5	2.5
106-93-4	1,2-Dibromoethane	<2.5	2.5
74-95-3	Dibromomethane	<2.5	2.5
110-57-6	trans-1,4-Dichloro-2-butene	<2.5	2.5
95-50-1	1,2-Dichlorobenzene	<2.5	2.5
541-73-1	1,3-Dichlorobenzene	<2.5	2.5
106-46-7	1,4-Dichlorobenzene	<2.5	2.5
75-71-8	Dichlorodifluoromethane	<12	12
75-34-3	1,1-Dichloroethane	**14**	2.5
107-06-2	1,2-Dichloroethane	<2.5	2.5
75-35-4	1,1-Dichloroethene	<2.5	2.5
156-59-2	cis-1,2-Dichloroethene	**32**	2.5
156-60-5	trans-1,2-Dichloroethene	**2.7**	2.5

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-31**	Sampled:	10/04/11 13:14
Lab Sample ID:	**1110049-04RE1**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	2.5	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<2.5	2.5
10061-01-5	cis-1,3-Dichloropropene	<2.5	2.5
10061-02-6	trans-1,3-Dichloropropene	<2.5	2.5
100-41-4	Ethylbenzene	<2.5	2.5
60-29-7	Ethyl Ether	<12	12
591-78-6	2-Hexanone	<12	12
74-88-4	Iodomethane	<2.5	2.5
98-82-8	Isopropylbenzene	<2.5	2.5
99-87-6	4-Isopropyltoluene	<12	12
1634-04-4	Methyl tert-Butyl Ether	<12	12
75-09-2	Methylene Chloride	<12	12
78-93-3	2-Butanone (MEK)	<12	12
91-57-6	2-Methylnaphthalene	<12	12
108-10-1	4-Methyl-2-pentanone (MIBK)	<12	12
91-20-3	Naphthalene	<12	12
103-65-1	n-Propylbenzene	<2.5	2.5
100-42-5	Styrene	<2.5	2.5
630-20-6	1,1,1,2-Tetrachloroethane	<2.5	2.5
79-34-5	1,1,2,2-Tetrachloroethane	<2.5	2.5
127-18-4	Tetrachloroethene	<2.5	2.5
109-99-9	Tetrahydrofuran	<12	12
108-88-3	Toluene	<2.5	2.5
87-61-6	1,2,3-Trichlorobenzene	<12	12
120-82-1	1,2,4-Trichlorobenzene	<12	12
71-55-6	1,1,1-Trichloroethane	**21**	2.5
79-00-5	1,1,2-Trichloroethane	<2.5	2.5
79-01-6	Trichloroethene	**270**	2.5
75-69-4	Trichlorofluoromethane	<2.5	2.5
96-18-4	1,2,3-Trichloropropane	<2.5	2.5
95-63-6	1,2,4-Trimethylbenzene	<2.5	2.5
108-67-8	1,3,5-Trimethylbenzene	<2.5	2.5

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-31**	Sampled:	10/04/11 13:14
Lab Sample ID:	**1110049-04RE1**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	2.5	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<2.5	2.5
179601-23-1	Xylene, Meta + Para	<5.0	5.0
95-47-6	Xylene, Ortho	<2.5	2.5

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*99*	*88-116*
1,2-Dichloroethane-d4	*102*	*87-123*
Toluene-d8	*100*	*91-107*
4-Bromofluorobenzene	*94*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**EB-01**	Sampled:	10/04/11 13:40
Lab Sample ID:	**1110049-05**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
*74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**EB-01**	Sampled:	10/04/11 13:40
Lab Sample ID:	**1110049-05**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	**1.1**	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**EB-01**	Sampled:	10/04/11 13:40
Lab Sample ID:	**1110049-05**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*106*	*88-116*
1,2-Dichloroethane-d4	*106*	*87-123*
Toluene-d8	*102*	*91-107*
4-Bromofluorobenzene	*95*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-24s**	Sampled:	10/04/11 14:34
Lab Sample ID:	**1110049-06**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-24s**	Sampled:	10/04/11 14:34
Lab Sample ID:	**1110049-06**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-24s**	Sampled:	10/04/11 14:34
Lab Sample ID:	**1110049-06**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*105*	*88-116*
1,2-Dichloroethane-d4	*107*	*87-123*
Toluene-d8	*102*	*91-107*
4-Bromofluorobenzene	*98*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-24d**	Sampled:	10/04/11 15:29
Lab Sample ID:	**1110049-07**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-24d**	Sampled:	10/04/11 15:29
Lab Sample ID:	**1110049-07**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-24d**	Sampled:	10/04/11 15:29
Lab Sample ID:	**1110049-07**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*105*	*88-116*
1,2-Dichloroethane-d4	*108*	*87-123*
Toluene-d8	*102*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-10s**	Sampled:	10/04/11 16:50
Lab Sample ID:	**1110049-08**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-10s**	Sampled:	10/04/11 16:50
Lab Sample ID:	**1110049-08**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-10s**	Sampled:	10/04/11 16:50
Lab Sample ID:	**1110049-08**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*106*	*88-116*
1,2-Dichloroethane-d4	*106*	*87-123*
Toluene-d8	*103*	*91-107*
4-Bromofluorobenzene	*99*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-01**	Sampled:	10/04/11 00:00
Lab Sample ID:	**1110049-09**	Sampled By:	TML
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-01**	Sampled:	10/04/11 00:00
Lab Sample ID:	**1110049-09**	Sampled By:	TML
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110049**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-01**	Sampled:	10/04/11 00:00
Lab Sample ID:	**1110049-09**	Sampled By:	TML
Matrix:	Water	Received:	10/05/11 08:30
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/07/11 By: DLV
QC Batch:	1110922	Analytical Batch:	1J10025

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*106*	*88-116*
1,2-Dichloroethane-d4	*106*	*87-123*
Toluene-d8	*102*	*91-107*
4-Bromofluorobenzene	*97*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-14d**	Sampled:	10/05/11 08:54
Lab Sample ID:	**1110100-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
*74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-14d**	Sampled:	10/05/11 08:54
Lab Sample ID:	**1110100-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-14d**	Sampled:	10/05/11 08:54
Lab Sample ID:	**1110100-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*105*	*88-116*
1,2-Dichloroethane-d4	*103*	*87-123*
Toluene-d8	*101*	*91-107*
4-Bromofluorobenzene	*97*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Dup-01**	Sampled:	10/05/11 00:00
Lab Sample ID:	**1110100-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
*74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Dup-01**	Sampled:	10/05/11 00:00
Lab Sample ID:	**1110100-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Dup-01**	Sampled:	10/05/11 00:00
Lab Sample ID:	**1110100-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*107*	*88-116*
1,2-Dichloroethane-d4	*107*	*87-123*
Toluene-d8	*104*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-27s**	Sampled:	10/05/11 10:26
Lab Sample ID:	**1110100-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
*74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-27s**	Sampled:	10/05/11 10:26
Lab Sample ID:	**1110100-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-27s**	Sampled:	10/05/11 10:26
Lab Sample ID:	**1110100-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*107*	*88-116*
1,2-Dichloroethane-d4	*105*	*87-123*
Toluene-d8	*104*	*91-107*
4-Bromofluorobenzene	*98*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-27d**	Sampled:	10/05/11 11:09
Lab Sample ID:	**1110100-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
*74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-27d**	Sampled:	10/05/11 11:09
Lab Sample ID:	**1110100-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-27d**	Sampled:	10/05/11 11:09
Lab Sample ID:	**1110100-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*106*	*88-116*
1,2-Dichloroethane-d4	*107*	*87-123*
Toluene-d8	*103*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-18s**	Sampled:	10/05/11 12:59
Lab Sample ID:	**1110100-05**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
*74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-18s**	Sampled:	10/05/11 12:59
Lab Sample ID:	**1110100-05**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-18s**	Sampled:	10/05/11 12:59
Lab Sample ID:	**1110100-05**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*108*	*88-116*
1,2-Dichloroethane-d4	*107*	*87-123*
Toluene-d8	*103*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-19d**	Sampled:	10/05/11 14:46
Lab Sample ID:	**1110100-06**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
*74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-19d**	Sampled:	10/05/11 14:46
Lab Sample ID:	**1110100-06**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-19d**	Sampled:	10/05/11 14:46
Lab Sample ID:	**1110100-06**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*109*	*88-116*
1,2-Dichloroethane-d4	*107*	*87-123*
Toluene-d8	*104*	*91-107*
4-Bromofluorobenzene	*97*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Dup-02**	Sampled:	10/05/11 00:00
Lab Sample ID:	**1110100-07**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
*74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Dup-02**	Sampled:	10/05/11 00:00
Lab Sample ID:	**1110100-07**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	**1.1**	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	**1.6**	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**28**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Dup-02**	Sampled:	10/05/11 00:00
Lab Sample ID:	**1110100-07**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*108*	*88-116*
1,2-Dichloroethane-d4	*108*	*87-123*
Toluene-d8	*103*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-19s**	Sampled:	10/05/11 15:25
Lab Sample ID:	**1110100-08**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
*74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-19s**	Sampled:	10/05/11 15:25
Lab Sample ID:	**1110100-08**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	**1.1**	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	**1.7**	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**28**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-19s**	Sampled:	10/05/11 15:25
Lab Sample ID:	**1110100-08**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*106*	*88-116*
1,2-Dichloroethane-d4	*107*	*87-123*
Toluene-d8	*104*	*91-107*
4-Bromofluorobenzene	*97*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-6**	Sampled:	10/05/11 16:30
Lab Sample ID:	**1110100-09**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
*74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-6**	Sampled:	10/05/11 16:30
Lab Sample ID:	**1110100-09**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**30**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-6**	Sampled:	10/05/11 16:30
Lab Sample ID:	**1110100-09**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*107*	*88-116*
1,2-Dichloroethane-d4	*107*	*87-123*
Toluene-d8	*104*	*91-107*
4-Bromofluorobenzene	*98*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-23**	Sampled:	10/05/11 17:04
Lab Sample ID:	**1110100-10**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
*74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-23**	Sampled:	10/05/11 17:04
Lab Sample ID:	**1110100-10**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-23**	Sampled:	10/05/11 17:04
Lab Sample ID:	**1110100-10**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**56**	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*106*	*88-116*
1,2-Dichloroethane-d4	*107*	*87-123*
Toluene-d8	*104*	*91-107*
4-Bromofluorobenzene	*97*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-02**	Sampled:	10/05/11 00:00
Lab Sample ID:	**1110100-11**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
*74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-02**	Sampled:	10/05/11 00:00
Lab Sample ID:	**1110100-11**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110100**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-02**	Sampled:	10/05/11 00:00
Lab Sample ID:	**1110100-11**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35
Unit:	ug/L	Prepared:	10/07/11 By: DLV
Dilution Factor:	1	Analyzed:	10/08/11 By: DLV
QC Batch:	1110923	Analytical Batch:	1J10027

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*105*	*88-116*
1,2-Dichloroethane-d4	*106*	*87-123*
Toluene-d8	*101*	*91-107*
4-Bromofluorobenzene	*97*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-33s**	Sampled:	10/06/11 08:00
Lab Sample ID:	**1110125-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	2	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<40	40
107-13-1	Acrylonitrile	<4.0	4.0
71-43-2	Benzene	<2.0	2.0
108-86-1	Bromobenzene	<2.0	2.0
74-97-5	Bromochloromethane	<2.0	2.0
75-27-4	Bromodichloromethane	<2.0	2.0
75-25-2	Bromoform	<2.0	2.0
74-83-9	Bromomethane	<10	10
104-51-8	n-Butylbenzene	<2.0	2.0
135-98-8	sec-Butylbenzene	<2.0	2.0
98-06-6	tert-Butylbenzene	<2.0	2.0
75-15-0	Carbon Disulfide	<2.0	2.0
56-23-5	Carbon Tetrachloride	<2.0	2.0
108-90-7	Chlorobenzene	<2.0	2.0
75-00-3	Chloroethane	<10	10
67-66-3	Chloroform	<2.0	2.0
74-87-3	Chloromethane	<10	10
96-12-8	1,2-Dibromo-3-chloropropane	<10	10
124-48-1	Dibromochloromethane	<2.0	2.0
106-93-4	1,2-Dibromoethane	<2.0	2.0
74-95-3	Dibromomethane	<2.0	2.0
110-57-6	trans-1,4-Dichloro-2-butene	<2.0	2.0
95-50-1	1,2-Dichlorobenzene	<2.0	2.0
541-73-1	1,3-Dichlorobenzene	<2.0	2.0
106-46-7	1,4-Dichlorobenzene	<2.0	2.0
75-71-8	Dichlorodifluoromethane	<10	10
75-34-3	1,1-Dichloroethane	**11**	2.0
107-06-2	1,2-Dichloroethane	<2.0	2.0
75-35-4	1,1-Dichloroethene	<2.0	2.0
156-59-2	cis-1,2-Dichloroethene	**19**	2.0
156-60-5	trans-1,2-Dichloroethene	<2.0	2.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-33s**	Sampled:	10/06/11 08:00
Lab Sample ID:	**1110125-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	2	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	<2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	<2.0	2.0
100-41-4	Ethylbenzene	<2.0	2.0
60-29-7	Ethyl Ether	<10	10
591-78-6	2-Hexanone	<10	10
74-88-4	Iodomethane	<2.0	2.0
98-82-8	Isopropylbenzene	<2.0	2.0
99-87-6	4-Isopropyltoluene	<10	10
1634-04-4	Methyl tert-Butyl Ether	<10	10
75-09-2	Methylene Chloride	<10	10
78-93-3	2-Butanone (MEK)	<10	10
91-57-6	2-Methylnaphthalene	<10	10
108-10-1	4-Methyl-2-pentanone (MIBK)	<10	10
91-20-3	Naphthalene	<10	10
103-65-1	n-Propylbenzene	<2.0	2.0
100-42-5	Styrene	<2.0	2.0
630-20-6	1,1,1,2-Tetrachloroethane	<2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	<2.0	2.0
127-18-4	Tetrachloroethene	<2.0	2.0
109-99-9	Tetrahydrofuran	<10	10
108-88-3	Toluene	<2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	<10	10
120-82-1	1,2,4-Trichlorobenzene	<10	10
71-55-6	1,1,1-Trichloroethane	<2.0	2.0
79-00-5	1,1,2-Trichloroethane	<2.0	2.0
79-01-6	Trichloroethene	**220**	2.0
75-69-4	Trichlorofluoromethane	<2.0	2.0
96-18-4	1,2,3-Trichloropropane	<2.0	2.0
95-63-6	1,2,4-Trimethylbenzene	<2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	<2.0	2.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-33s**	Sampled:	10/06/11 08:00
Lab Sample ID:	**1110125-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	2	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**48**	2.0
179601-23-1	Xylene, Meta + Para	<4.0	4.0
95-47-6	Xylene, Ortho	<2.0	2.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*98*	*88-116*
1,2-Dichloroethane-d4	*100*	*87-123*
Toluene-d8	*98*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-32s**	Sampled:	10/06/11 09:00
Lab Sample ID:	**1110125-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	20	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<400	400
107-13-1	Acrylonitrile	<40	40
71-43-2	Benzene	<20	20
108-86-1	Bromobenzene	<20	20
74-97-5	Bromochloromethane	<20	20
75-27-4	Bromodichloromethane	<20	20
75-25-2	Bromoform	<20	20
74-83-9	Bromomethane	<100	100
104-51-8	n-Butylbenzene	<20	20
135-98-8	sec-Butylbenzene	<20	20
98-06-6	tert-Butylbenzene	<20	20
75-15-0	Carbon Disulfide	<20	20
56-23-5	Carbon Tetrachloride	<20	20
108-90-7	Chlorobenzene	<20	20
75-00-3	Chloroethane	<100	100
67-66-3	Chloroform	<20	20
74-87-3	Chloromethane	<100	100
96-12-8	1,2-Dibromo-3-chloropropane	<100	100
124-48-1	Dibromochloromethane	<20	20
106-93-4	1,2-Dibromoethane	<20	20
74-95-3	Dibromomethane	<20	20
110-57-6	trans-1,4-Dichloro-2-butene	<20	20
95-50-1	1,2-Dichlorobenzene	<20	20
541-73-1	1,3-Dichlorobenzene	<20	20
106-46-7	1,4-Dichlorobenzene	<20	20
75-71-8	Dichlorodifluoromethane	<100	100
75-34-3	1,1-Dichloroethane	<20	20
107-06-2	1,2-Dichloroethane	<20	20
75-35-4	1,1-Dichloroethene	<20	20
156-59-2	cis-1,2-Dichloroethene	**160**	20
156-60-5	trans-1,2-Dichloroethene	<20	20

Continued on next page

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-32s**	Sampled:	10/06/11 09:00
Lab Sample ID:	**1110125-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	20	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<20	20
10061-01-5	cis-1,3-Dichloropropene	<20	20
10061-02-6	trans-1,3-Dichloropropene	<20	20
100-41-4	Ethylbenzene	<20	20
60-29-7	Ethyl Ether	<100	100
591-78-6	2-Hexanone	<100	100
74-88-4	Iodomethane	<20	20
98-82-8	Isopropylbenzene	<20	20
99-87-6	4-Isopropyltoluene	<100	100
1634-04-4	Methyl tert-Butyl Ether	<100	100
75-09-2	Methylene Chloride	<100	100
78-93-3	2-Butanone (MEK)	<100	100
91-57-6	2-Methylnaphthalene	<100	100
108-10-1	4-Methyl-2-pentanone (MIBK)	<100	100
91-20-3	Naphthalene	<100	100
103-65-1	n-Propylbenzene	<20	20
100-42-5	Styrene	<20	20
630-20-6	1,1,1,2-Tetrachloroethane	<20	20
79-34-5	1,1,2,2-Tetrachloroethane	<20	20
127-18-4	Tetrachloroethene	<20	20
109-99-9	Tetrahydrofuran	<100	100
108-88-3	Toluene	<20	20
87-61-6	1,2,3-Trichlorobenzene	<100	100
120-82-1	1,2,4-Trichlorobenzene	<100	100
71-55-6	1,1,1-Trichloroethane	**350**	20
79-00-5	1,1,2-Trichloroethane	<20	20
79-01-6	Trichloroethene	**2200**	20
75-69-4	Trichlorofluoromethane	<20	20
96-18-4	1,2,3-Trichloropropane	<20	20
95-63-6	1,2,4-Trimethylbenzene	<20	20
108-67-8	1,3,5-Trimethylbenzene	<20	20

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-32s**	Sampled:	10/06/11 09:00
Lab Sample ID:	**1110125-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	20	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<20	20
179601-23-1	Xylene, Meta + Para	<40	40
95-47-6	Xylene, Ortho	<20	20

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*99*	*88-116*
1,2-Dichloroethane-d4	*101*	*87-123*
Toluene-d8	*98*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-34s**	Sampled:	10/06/11 09:50
Lab Sample ID:	**1110125-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	10	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<200	200
107-13-1	Acrylonitrile	<20	20
71-43-2	Benzene	<10	10
108-86-1	Bromobenzene	<10	10
74-97-5	Bromochloromethane	<10	10
75-27-4	Bromodichloromethane	<10	10
75-25-2	Bromoform	<10	10
74-83-9	Bromomethane	<50	50
104-51-8	n-Butylbenzene	<10	10
135-98-8	sec-Butylbenzene	<10	10
98-06-6	tert-Butylbenzene	<10	10
75-15-0	Carbon Disulfide	<10	10
56-23-5	Carbon Tetrachloride	<10	10
108-90-7	Chlorobenzene	<10	10
75-00-3	Chloroethane	<50	50
67-66-3	Chloroform	<10	10
74-87-3	Chloromethane	<50	50
96-12-8	1,2-Dibromo-3-chloropropane	<50	50
124-48-1	Dibromochloromethane	<10	10
106-93-4	1,2-Dibromoethane	<10	10
74-95-3	Dibromomethane	<10	10
110-57-6	trans-1,4-Dichloro-2-butene	<10	10
95-50-1	1,2-Dichlorobenzene	<10	10
541-73-1	1,3-Dichlorobenzene	<10	10
106-46-7	1,4-Dichlorobenzene	<10	10
75-71-8	Dichlorodifluoromethane	<50	50
75-34-3	1,1-Dichloroethane	<10	10
107-06-2	1,2-Dichloroethane	<10	10
75-35-4	1,1-Dichloroethene	<10	10
156-59-2	cis-1,2-Dichloroethene	<10	10
156-60-5	trans-1,2-Dichloroethene	<10	10

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-34s**	Sampled:	10/06/11 09:50
Lab Sample ID:	**1110125-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	10	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<10	10
10061-01-5	cis-1,3-Dichloropropene	<10	10
10061-02-6	trans-1,3-Dichloropropene	<10	10
100-41-4	Ethylbenzene	<10	10
60-29-7	Ethyl Ether	<50	50
591-78-6	2-Hexanone	<50	50
74-88-4	Iodomethane	<10	10
98-82-8	Isopropylbenzene	<10	10
99-87-6	4-Isopropyltoluene	<50	50
1634-04-4	Methyl tert-Butyl Ether	<50	50
75-09-2	Methylene Chloride	<50	50
78-93-3	2-Butanone (MEK)	<50	50
91-57-6	2-Methylnaphthalene	<50	50
108-10-1	4-Methyl-2-pentanone (MIBK)	<50	50
91-20-3	Naphthalene	<50	50
103-65-1	n-Propylbenzene	<10	10
100-42-5	Styrene	<10	10
630-20-6	1,1,1,2-Tetrachloroethane	<10	10
79-34-5	1,1,2,2-Tetrachloroethane	<10	10
127-18-4	Tetrachloroethene	<10	10
109-99-9	Tetrahydrofuran	<50	50
108-88-3	Toluene	<10	10
87-61-6	1,2,3-Trichlorobenzene	<50	50
120-82-1	1,2,4-Trichlorobenzene	<50	50
71-55-6	1,1,1-Trichloroethane	**1200**	10
79-00-5	1,1,2-Trichloroethane	<10	10
79-01-6	Trichloroethene	**1000**	10
75-69-4	Trichlorofluoromethane	<10	10
96-18-4	1,2,3-Trichloropropane	<10	10
95-63-6	1,2,4-Trimethylbenzene	<10	10
108-67-8	1,3,5-Trimethylbenzene	<10	10

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-34s**	Sampled:	10/06/11 09:50
Lab Sample ID:	**1110125-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	10	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<10	10
179601-23-1	Xylene, Meta + Para	<20	20
95-47-6	Xylene, Ortho	<10	10

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*99*	*88-116*
1,2-Dichloroethane-d4	*102*	*87-123*
Toluene-d8	*98*	*91-107*
4-Bromofluorobenzene	*94*	*84-106*

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-3s**	Sampled:	10/06/11 10:58
Lab Sample ID:	**1110125-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	20	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<400	400
107-13-1	Acrylonitrile	<40	40
71-43-2	Benzene	<20	20
108-86-1	Bromobenzene	<20	20
74-97-5	Bromochloromethane	<20	20
75-27-4	Bromodichloromethane	<20	20
75-25-2	Bromoform	<20	20
74-83-9	Bromomethane	<100	100
104-51-8	n-Butylbenzene	<20	20
135-98-8	sec-Butylbenzene	<20	20
98-06-6	tert-Butylbenzene	<20	20
75-15-0	Carbon Disulfide	<20	20
56-23-5	Carbon Tetrachloride	<20	20
108-90-7	Chlorobenzene	<20	20
75-00-3	Chloroethane	<100	100
67-66-3	Chloroform	<20	20
74-87-3	Chloromethane	<100	100
96-12-8	1,2-Dibromo-3-chloropropane	<100	100
124-48-1	Dibromochloromethane	<20	20
106-93-4	1,2-Dibromoethane	<20	20
74-95-3	Dibromomethane	<20	20
110-57-6	trans-1,4-Dichloro-2-butene	<20	20
95-50-1	1,2-Dichlorobenzene	<20	20
541-73-1	1,3-Dichlorobenzene	<20	20
106-46-7	1,4-Dichlorobenzene	<20	20
75-71-8	Dichlorodifluoromethane	<100	100
75-34-3	1,1-Dichloroethane	**24**	20
107-06-2	1,2-Dichloroethane	<20	20
75-35-4	1,1-Dichloroethene	<20	20
156-59-2	cis-1,2-Dichloroethene	**2100**	20
156-60-5	trans-1,2-Dichloroethene	**100**	20

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-3s**	Sampled:	10/06/11 10:58
Lab Sample ID:	**1110125-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	20	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<20	20
10061-01-5	cis-1,3-Dichloropropene	<20	20
10061-02-6	trans-1,3-Dichloropropene	<20	20
100-41-4	Ethylbenzene	<20	20
60-29-7	Ethyl Ether	<100	100
591-78-6	2-Hexanone	<100	100
74-88-4	Iodomethane	<20	20
98-82-8	Isopropylbenzene	<20	20
99-87-6	4-Isopropyltoluene	<100	100
1634-04-4	Methyl tert-Butyl Ether	<100	100
75-09-2	Methylene Chloride	<100	100
78-93-3	2-Butanone (MEK)	<100	100
91-57-6	2-Methylnaphthalene	<100	100
108-10-1	4-Methyl-2-pentanone (MIBK)	<100	100
91-20-3	Naphthalene	<100	100
103-65-1	n-Propylbenzene	<20	20
100-42-5	Styrene	<20	20
630-20-6	1,1,1,2-Tetrachloroethane	<20	20
79-34-5	1,1,2,2-Tetrachloroethane	<20	20
127-18-4	Tetrachloroethene	<20	20
109-99-9	Tetrahydrofuran	<100	100
108-88-3	Toluene	<20	20
87-61-6	1,2,3-Trichlorobenzene	<100	100
120-82-1	1,2,4-Trichlorobenzene	<100	100
71-55-6	1,1,1-Trichloroethane	<20	20
79-00-5	1,1,2-Trichloroethane	<20	20
79-01-6	Trichloroethene	<20	20
75-69-4	Trichlorofluoromethane	<20	20
96-18-4	1,2,3-Trichloropropane	<20	20
95-63-6	1,2,4-Trimethylbenzene	<20	20
108-67-8	1,3,5-Trimethylbenzene	<20	20

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-3s**	Sampled:	10/06/11 10:58
Lab Sample ID:	**1110125-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	20	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**91**	20
179601-23-1	Xylene, Meta + Para	<40	40
95-47-6	Xylene, Ortho	<20	20

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*98*	*88-116*
1,2-Dichloroethane-d4	*100*	*87-123*
Toluene-d8	*98*	*91-107*
4-Bromofluorobenzene	*94*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**EB-02**	Sampled:	10/06/11 11:08
Lab Sample ID:	**1110125-05**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	1	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**EB-02**	Sampled:	10/06/11 11:08
Lab Sample ID:	**1110125-05**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	1	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**EB-02**	Sampled:	10/06/11 11:08
Lab Sample ID:	**1110125-05**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	1	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*100*	*88-116*
1,2-Dichloroethane-d4	*102*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*94*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-4s**	Sampled:	10/06/11 11:39
Lab Sample ID:	**1110125-06**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	50	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<1000	1000
107-13-1	Acrylonitrile	<100	100
71-43-2	Benzene	<50	50
108-86-1	Bromobenzene	<50	50
74-97-5	Bromochloromethane	<50	50
75-27-4	Bromodichloromethane	<50	50
75-25-2	Bromoform	<50	50
74-83-9	Bromomethane	<250	250
104-51-8	n-Butylbenzene	<50	50
135-98-8	sec-Butylbenzene	<50	50
98-06-6	tert-Butylbenzene	<50	50
75-15-0	Carbon Disulfide	<50	50
56-23-5	Carbon Tetrachloride	<50	50
108-90-7	Chlorobenzene	<50	50
75-00-3	Chloroethane	<250	250
67-66-3	Chloroform	<50	50
74-87-3	Chloromethane	<250	250
96-12-8	1,2-Dibromo-3-chloropropane	<250	250
124-48-1	Dibromochloromethane	<50	50
106-93-4	1,2-Dibromoethane	<50	50
74-95-3	Dibromomethane	<50	50
110-57-6	trans-1,4-Dichloro-2-butene	<50	50
95-50-1	1,2-Dichlorobenzene	<50	50
541-73-1	1,3-Dichlorobenzene	<50	50
106-46-7	1,4-Dichlorobenzene	<50	50
75-71-8	Dichlorodifluoromethane	<250	250
75-34-3	1,1-Dichloroethane	<50	50
107-06-2	1,2-Dichloroethane	<50	50
75-35-4	1,1-Dichloroethene	<50	50
156-59-2	cis-1,2-Dichloroethene	**2000**	50
156-60-5	trans-1,2-Dichloroethene	**58**	50

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-4s**	Sampled:	10/06/11 11:39
Lab Sample ID:	**1110125-06**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	50	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<50	50
10061-01-5	cis-1,3-Dichloropropene	<50	50
10061-02-6	trans-1,3-Dichloropropene	<50	50
100-41-4	Ethylbenzene	<50	50
60-29-7	Ethyl Ether	<250	250
591-78-6	2-Hexanone	<250	250
74-88-4	Iodomethane	<50	50
98-82-8	Isopropylbenzene	<50	50
99-87-6	4-Isopropyltoluene	<250	250
1634-04-4	Methyl tert-Butyl Ether	<250	250
75-09-2	Methylene Chloride	<250	250
78-93-3	2-Butanone (MEK)	<250	250
91-57-6	2-Methylnaphthalene	<250	250
108-10-1	4-Methyl-2-pentanone (MIBK)	<250	250
91-20-3	Naphthalene	<250	250
103-65-1	n-Propylbenzene	<50	50
100-42-5	Styrene	<50	50
630-20-6	1,1,1,2-Tetrachloroethane	<50	50
79-34-5	1,1,2,2-Tetrachloroethane	<50	50
127-18-4	Tetrachloroethene	<50	50
109-99-9	Tetrahydrofuran	<250	250
108-88-3	Toluene	<50	50
87-61-6	1,2,3-Trichlorobenzene	<250	250
120-82-1	1,2,4-Trichlorobenzene	<250	250
71-55-6	1,1,1-Trichloroethane	<50	50
79-00-5	1,1,2-Trichloroethane	<50	50
79-01-6	Trichloroethene	**4600**	50
75-69-4	Trichlorofluoromethane	<50	50
96-18-4	1,2,3-Trichloropropane	<50	50
95-63-6	1,2,4-Trimethylbenzene	<50	50
108-67-8	1,3,5-Trimethylbenzene	<50	50

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-4s**	Sampled:	10/06/11 11:39
Lab Sample ID:	**1110125-06**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	50	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**190**	50
179601-23-1	Xylene, Meta + Para	<100	100
95-47-6	Xylene, Ortho	<50	50

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*98*	*88-116*
1,2-Dichloroethane-d4	*101*	*87-123*
Toluene-d8	*98*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-1s**	Sampled:	10/06/11 12:14
Lab Sample ID:	**1110125-07**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	20	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<400	400
107-13-1	Acrylonitrile	<40	40
71-43-2	Benzene	<20	20
108-86-1	Bromobenzene	<20	20
74-97-5	Bromochloromethane	<20	20
75-27-4	Bromodichloromethane	<20	20
75-25-2	Bromoform	<20	20
74-83-9	Bromomethane	<100	100
104-51-8	n-Butylbenzene	<20	20
135-98-8	sec-Butylbenzene	<20	20
98-06-6	tert-Butylbenzene	<20	20
75-15-0	Carbon Disulfide	<20	20
56-23-5	Carbon Tetrachloride	<20	20
108-90-7	Chlorobenzene	<20	20
75-00-3	Chloroethane	<100	100
67-66-3	Chloroform	<20	20
74-87-3	Chloromethane	<100	100
96-12-8	1,2-Dibromo-3-chloropropane	<100	100
124-48-1	Dibromochloromethane	<20	20
106-93-4	1,2-Dibromoethane	<20	20
74-95-3	Dibromomethane	<20	20
110-57-6	trans-1,4-Dichloro-2-butene	<20	20
95-50-1	1,2-Dichlorobenzene	<20	20
541-73-1	1,3-Dichlorobenzene	<20	20
106-46-7	1,4-Dichlorobenzene	<20	20
75-71-8	Dichlorodifluoromethane	<100	100
75-34-3	1,1-Dichloroethane	<20	20
107-06-2	1,2-Dichloroethane	<20	20
75-35-4	1,1-Dichloroethene	<20	20
156-59-2	cis-1,2-Dichloroethene	<20	20
156-60-5	trans-1,2-Dichloroethene	<20	20

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-1s**	Sampled:	10/06/11 12:14
Lab Sample ID:	**1110125-07**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	20	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<20	20
10061-01-5	cis-1,3-Dichloropropene	<20	20
10061-02-6	trans-1,3-Dichloropropene	<20	20
100-41-4	Ethylbenzene	<20	20
60-29-7	Ethyl Ether	<100	100
591-78-6	2-Hexanone	<100	100
74-88-4	Iodomethane	<20	20
98-82-8	Isopropylbenzene	<20	20
99-87-6	4-Isopropyltoluene	<100	100
1634-04-4	Methyl tert-Butyl Ether	<100	100
75-09-2	Methylene Chloride	<100	100
78-93-3	2-Butanone (MEK)	<100	100
91-57-6	2-Methylnaphthalene	<100	100
108-10-1	4-Methyl-2-pentanone (MIBK)	<100	100
91-20-3	Naphthalene	<100	100
103-65-1	n-Propylbenzene	<20	20
100-42-5	Styrene	<20	20
630-20-6	1,1,1,2-Tetrachloroethane	<20	20
79-34-5	1,1,2,2-Tetrachloroethane	<20	20
127-18-4	Tetrachloroethene	<20	20
109-99-9	Tetrahydrofuran	<100	100
108-88-3	Toluene	<20	20
87-61-6	1,2,3-Trichlorobenzene	<100	100
120-82-1	1,2,4-Trichlorobenzene	<100	100
71-55-6	1,1,1-Trichloroethane	**540**	20
79-00-5	1,1,2-Trichloroethane	<20	20
79-01-6	Trichloroethene	**2000**	20
75-69-4	Trichlorofluoromethane	<20	20
96-18-4	1,2,3-Trichloropropane	<20	20
95-63-6	1,2,4-Trimethylbenzene	<20	20
108-67-8	1,3,5-Trimethylbenzene	<20	20

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-1s**	Sampled:	10/06/11 12:14
Lab Sample ID:	**1110125-07**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	20	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<20	20
179601-23-1	Xylene, Meta + Para	<40	40
95-47-6	Xylene, Ortho	<20	20

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*99*	*88-116*
1,2-Dichloroethane-d4	*101*	*87-123*
Toluene-d8	*98*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**DUP-03**	Sampled:	10/06/11 00:00
Lab Sample ID:	**1110125-08**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	10	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<200	200
107-13-1	Acrylonitrile	<20	20
71-43-2	Benzene	<10	10
108-86-1	Bromobenzene	<10	10
74-97-5	Bromochloromethane	<10	10
75-27-4	Bromodichloromethane	<10	10
75-25-2	Bromoform	<10	10
74-83-9	Bromomethane	<50	50
104-51-8	n-Butylbenzene	<10	10
135-98-8	sec-Butylbenzene	<10	10
98-06-6	tert-Butylbenzene	<10	10
75-15-0	Carbon Disulfide	<10	10
56-23-5	Carbon Tetrachloride	<10	10
108-90-7	Chlorobenzene	<10	10
75-00-3	Chloroethane	<50	50
67-66-3	Chloroform	<10	10
74-87-3	Chloromethane	<50	50
96-12-8	1,2-Dibromo-3-chloropropane	<50	50
124-48-1	Dibromochloromethane	<10	10
106-93-4	1,2-Dibromoethane	<10	10
74-95-3	Dibromomethane	<10	10
110-57-6	trans-1,4-Dichloro-2-butene	<10	10
95-50-1	1,2-Dichlorobenzene	<10	10
541-73-1	1,3-Dichlorobenzene	<10	10
106-46-7	1,4-Dichlorobenzene	<10	10
75-71-8	Dichlorodifluoromethane	<50	50
75-34-3	1,1-Dichloroethane	**21**	10
107-06-2	1,2-Dichloroethane	<10	10
75-35-4	1,1-Dichloroethene	<10	10
156-59-2	cis-1,2-Dichloroethene	**73**	10
156-60-5	trans-1,2-Dichloroethene	<10	10

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**DUP-03**	Sampled:	10/06/11 00:00
Lab Sample ID:	**1110125-08**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	10	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<10	10
10061-01-5	cis-1,3-Dichloropropene	<10	10
10061-02-6	trans-1,3-Dichloropropene	<10	10
100-41-4	Ethylbenzene	<10	10
60-29-7	Ethyl Ether	<50	50
591-78-6	2-Hexanone	<50	50
74-88-4	Iodomethane	<10	10
98-82-8	Isopropylbenzene	<10	10
99-87-6	4-Isopropyltoluene	<50	50
1634-04-4	Methyl tert-Butyl Ether	<50	50
75-09-2	Methylene Chloride	<50	50
78-93-3	2-Butanone (MEK)	<50	50
91-57-6	2-Methylnaphthalene	<50	50
108-10-1	4-Methyl-2-pentanone (MIBK)	<50	50
91-20-3	Naphthalene	<50	50
103-65-1	n-Propylbenzene	<10	10
100-42-5	Styrene	<10	10
630-20-6	1,1,1,2-Tetrachloroethane	<10	10
79-34-5	1,1,2,2-Tetrachloroethane	<10	10
127-18-4	Tetrachloroethene	<10	10
109-99-9	Tetrahydrofuran	<50	50
108-88-3	Toluene	<10	10
87-61-6	1,2,3-Trichlorobenzene	<50	50
120-82-1	1,2,4-Trichlorobenzene	<50	50
71-55-6	1,1,1-Trichloroethane	**52**	10
79-00-5	1,1,2-Trichloroethane	<10	10
79-01-6	Trichloroethene	**910**	10
75-69-4	Trichlorofluoromethane	<10	10
96-18-4	1,2,3-Trichloropropane	<10	10
95-63-6	1,2,4-Trimethylbenzene	<10	10
108-67-8	1,3,5-Trimethylbenzene	<10	10

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**DUP-03**	Sampled:	10/06/11 00:00
Lab Sample ID:	**1110125-08**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	10	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<10	10
179601-23-1	Xylene, Meta + Para	<20	20
95-47-6	Xylene, Ortho	<10	10

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*98*	*88-116*
1,2-Dichloroethane-d4	*102*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*95*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-21**	Sampled:	10/06/11 13:25
Lab Sample ID:	**1110125-09**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	10	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<200	200
107-13-1	Acrylonitrile	<20	20
71-43-2	Benzene	<10	10
108-86-1	Bromobenzene	<10	10
74-97-5	Bromochloromethane	<10	10
75-27-4	Bromodichloromethane	<10	10
75-25-2	Bromoform	<10	10
74-83-9	Bromomethane	<50	50
104-51-8	n-Butylbenzene	<10	10
135-98-8	sec-Butylbenzene	<10	10
98-06-6	tert-Butylbenzene	<10	10
75-15-0	Carbon Disulfide	<10	10
56-23-5	Carbon Tetrachloride	<10	10
108-90-7	Chlorobenzene	<10	10
75-00-3	Chloroethane	<50	50
67-66-3	Chloroform	<10	10
74-87-3	Chloromethane	<50	50
96-12-8	1,2-Dibromo-3-chloropropane	<50	50
124-48-1	Dibromochloromethane	<10	10
106-93-4	1,2-Dibromoethane	<10	10
74-95-3	Dibromomethane	<10	10
110-57-6	trans-1,4-Dichloro-2-butene	<10	10
95-50-1	1,2-Dichlorobenzene	<10	10
541-73-1	1,3-Dichlorobenzene	<10	10
106-46-7	1,4-Dichlorobenzene	<10	10
75-71-8	Dichlorodifluoromethane	<50	50
75-34-3	1,1-Dichloroethane	**22**	10
107-06-2	1,2-Dichloroethane	<10	10
75-35-4	1,1-Dichloroethene	<10	10
156-59-2	cis-1,2-Dichloroethene	**74**	10
156-60-5	trans-1,2-Dichloroethene	<10	10

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-21**	Sampled:	10/06/11 13:25
Lab Sample ID:	**1110125-09**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	10	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<10	10
10061-01-5	cis-1,3-Dichloropropene	<10	10
10061-02-6	trans-1,3-Dichloropropene	<10	10
100-41-4	Ethylbenzene	<10	10
60-29-7	Ethyl Ether	<50	50
591-78-6	2-Hexanone	<50	50
74-88-4	Iodomethane	<10	10
98-82-8	Isopropylbenzene	<10	10
99-87-6	4-Isopropyltoluene	<50	50
1634-04-4	Methyl tert-Butyl Ether	<50	50
75-09-2	Methylene Chloride	<50	50
78-93-3	2-Butanone (MEK)	<50	50
91-57-6	2-Methylnaphthalene	<50	50
108-10-1	4-Methyl-2-pentanone (MIBK)	<50	50
91-20-3	Naphthalene	<50	50
103-65-1	n-Propylbenzene	<10	10
100-42-5	Styrene	<10	10
630-20-6	1,1,1,2-Tetrachloroethane	<10	10
79-34-5	1,1,2,2-Tetrachloroethane	<10	10
127-18-4	Tetrachloroethene	<10	10
109-99-9	Tetrahydrofuran	<50	50
108-88-3	Toluene	<10	10
87-61-6	1,2,3-Trichlorobenzene	<50	50
120-82-1	1,2,4-Trichlorobenzene	<50	50
71-55-6	1,1,1-Trichloroethane	**55**	10
79-00-5	1,1,2-Trichloroethane	<10	10
79-01-6	Trichloroethene	**960**	10
75-69-4	Trichlorofluoromethane	<10	10
96-18-4	1,2,3-Trichloropropane	<10	10
95-63-6	1,2,4-Trimethylbenzene	<10	10
108-67-8	1,3,5-Trimethylbenzene	<10	10

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-21**	Sampled:	10/06/11 13:25
Lab Sample ID:	**1110125-09**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	10	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<10	10
179601-23-1	Xylene, Meta + Para	<20	20
95-47-6	Xylene, Ortho	<10	10

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*100*	*88-116*
1,2-Dichloroethane-d4	*101*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*94*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-03**	Sampled:	10/06/11 00:00
Lab Sample ID:	**1110125-10**	Sampled By:	TML
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	1	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-03**	Sampled:	10/06/11 00:00
Lab Sample ID:	**1110125-10**	Sampled By:	TML
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	1	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110125**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-03**	Sampled:	10/06/11 00:00
Lab Sample ID:	**1110125-10**	Sampled By:	TML
Matrix:	Water	Received:	10/07/11 08:10
Unit:	ug/L	Prepared:	10/11/11 By: DLV
Dilution Factor:	1	Analyzed:	10/11/11 By: DLV
QC Batch:	1111033	Analytical Batch:	1J12010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*100*	*88-116*
1,2-Dichloroethane-d4	*101*	*87-123*
Toluene-d8	*98*	*91-107*
4-Bromofluorobenzene	*95*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-26s**	Sampled:	10/07/11 07:25
Lab Sample ID:	**1110196-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-26s**	Sampled:	10/07/11 07:25
Lab Sample ID:	**1110196-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-26s**	Sampled:	10/07/11 07:25
Lab Sample ID:	**1110196-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*100*	*88-116*
1,2-Dichloroethane-d4	*104*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*95*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-15s**	Sampled:	10/07/11 08:32
Lab Sample ID:	**1110196-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-15s**	Sampled:	10/07/11 08:32
Lab Sample ID:	**1110196-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-15s**	Sampled:	10/07/11 08:32
Lab Sample ID:	**1110196-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*102*	*88-116*
1,2-Dichloroethane-d4	*105*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*95*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-14s**	Sampled:	10/07/11 09:20
Lab Sample ID:	**1110196-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-14s**	Sampled:	10/07/11 09:20
Lab Sample ID:	**1110196-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-14s**	Sampled:	10/07/11 09:20
Lab Sample ID:	**1110196-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*101*	*88-116*
1,2-Dichloroethane-d4	*104*	*87-123*
Toluene-d8	*100*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-2s**	Sampled:	10/07/11 10:05
Lab Sample ID:	**1110196-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	2	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<40	40
107-13-1	Acrylonitrile	<4.0	4.0
71-43-2	Benzene	<2.0	2.0
108-86-1	Bromobenzene	<2.0	2.0
74-97-5	Bromochloromethane	<2.0	2.0
75-27-4	Bromodichloromethane	<2.0	2.0
75-25-2	Bromoform	<2.0	2.0
74-83-9	Bromomethane	<10	10
104-51-8	n-Butylbenzene	<2.0	2.0
135-98-8	sec-Butylbenzene	<2.0	2.0
98-06-6	tert-Butylbenzene	<2.0	2.0
75-15-0	Carbon Disulfide	<2.0	2.0
56-23-5	Carbon Tetrachloride	<2.0	2.0
108-90-7	Chlorobenzene	<2.0	2.0
75-00-3	Chloroethane	<10	10
67-66-3	Chloroform	<2.0	2.0
74-87-3	Chloromethane	<10	10
96-12-8	1,2-Dibromo-3-chloropropane	<10	10
124-48-1	Dibromochloromethane	<2.0	2.0
106-93-4	1,2-Dibromoethane	<2.0	2.0
74-95-3	Dibromomethane	<2.0	2.0
110-57-6	trans-1,4-Dichloro-2-butene	<2.0	2.0
95-50-1	1,2-Dichlorobenzene	<2.0	2.0
541-73-1	1,3-Dichlorobenzene	<2.0	2.0
106-46-7	1,4-Dichlorobenzene	<2.0	2.0
75-71-8	Dichlorodifluoromethane	<10	10
75-34-3	1,1-Dichloroethane	<2.0	2.0
107-06-2	1,2-Dichloroethane	<2.0	2.0
75-35-4	1,1-Dichloroethene	<2.0	2.0
156-59-2	cis-1,2-Dichloroethene	<2.0	2.0
156-60-5	trans-1,2-Dichloroethene	<2.0	2.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-2s**	Sampled:	10/07/11 10:05
Lab Sample ID:	**1110196-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	2	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	<2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	<2.0	2.0
100-41-4	Ethylbenzene	<2.0	2.0
60-29-7	Ethyl Ether	<10	10
591-78-6	2-Hexanone	<10	10
74-88-4	Iodomethane	<2.0	2.0
98-82-8	Isopropylbenzene	<2.0	2.0
99-87-6	4-Isopropyltoluene	<10	10
1634-04-4	Methyl tert-Butyl Ether	<10	10
75-09-2	Methylene Chloride	<10	10
78-93-3	2-Butanone (MEK)	<10	10
91-57-6	2-Methylnaphthalene	<10	10
108-10-1	4-Methyl-2-pentanone (MIBK)	<10	10
91-20-3	Naphthalene	<10	10
103-65-1	n-Propylbenzene	<2.0	2.0
100-42-5	Styrene	<2.0	2.0
630-20-6	1,1,1,2-Tetrachloroethane	<2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	<2.0	2.0
127-18-4	Tetrachloroethene	**2.5**	2.0
109-99-9	Tetrahydrofuran	<10	10
108-88-3	Toluene	<2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	<10	10
120-82-1	1,2,4-Trichlorobenzene	<10	10
71-55-6	1,1,1-Trichloroethane	**2.5**	2.0
79-00-5	1,1,2-Trichloroethane	<2.0	2.0
79-01-6	Trichloroethene	**220**	2.0
75-69-4	Trichlorofluoromethane	<2.0	2.0
96-18-4	1,2,3-Trichloropropane	<2.0	2.0
95-63-6	1,2,4-Trimethylbenzene	<2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	<2.0	2.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-2s**	Sampled:	10/07/11 10:05
Lab Sample ID:	**1110196-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	2	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<2.0	2.0
179601-23-1	Xylene, Meta + Para	<4.0	4.0
95-47-6	Xylene, Ortho	<2.0	2.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*99*	*88-116*
1,2-Dichloroethane-d4	*102*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*95*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-11s**	Sampled:	10/07/11 11:48
Lab Sample ID:	**1110196-05**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-11s**	Sampled:	10/07/11 11:48
Lab Sample ID:	**1110196-05**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-11s**	Sampled:	10/07/11 11:48
Lab Sample ID:	**1110196-05**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*100*	*88-116*
1,2-Dichloroethane-d4	*105*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*95*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-28s**	Sampled:	10/07/11 12:38
Lab Sample ID:	**1110196-06**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-28s**	Sampled:	10/07/11 12:38
Lab Sample ID:	**1110196-06**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-28s**	Sampled:	10/07/11 12:38
Lab Sample ID:	**1110196-06**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*100*	*88-116*
1,2-Dichloroethane-d4	*103*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*95*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-28d**	Sampled:	10/07/11 13:35
Lab Sample ID:	**1110196-07**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-28d**	Sampled:	10/07/11 13:35
Lab Sample ID:	**1110196-07**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-28d**	Sampled:	10/07/11 13:35
Lab Sample ID:	**1110196-07**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*101*	*88-116*
1,2-Dichloroethane-d4	*104*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*95*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-12s**	Sampled:	10/07/11 14:44
Lab Sample ID:	**1110196-08**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-12s**	Sampled:	10/07/11 14:44
Lab Sample ID:	**1110196-08**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	**1.9**	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-12s**	Sampled:	10/07/11 14:44
Lab Sample ID:	**1110196-08**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*103*	*88-116*
1,2-Dichloroethane-d4	*106*	*87-123*
Toluene-d8	*100*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-12d**	Sampled:	10/07/11 15:16
Lab Sample ID:	**1110196-09**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-12d**	Sampled:	10/07/11 15:16
Lab Sample ID:	**1110196-09**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-12d**	Sampled:	10/07/11 15:16
Lab Sample ID:	**1110196-09**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*101*	*88-116*
1,2-Dichloroethane-d4	*104*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-04**	Sampled:	10/07/11 00:00
Lab Sample ID:	**1110196-10**	Sampled By:	TML
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/14/11 By: DLV
Dilution Factor:	1	Analyzed:	10/14/11 By: DLV
QC Batch:	1111274	Analytical Batch:	1J17004

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-04**	Sampled:	10/07/11 00:00
Lab Sample ID:	**1110196-10**	Sampled By:	TML
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/14/11 By: DLV
Dilution Factor:	1	Analyzed:	10/14/11 By: DLV
QC Batch:	1111274	Analytical Batch:	1J17004

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-04**	Sampled:	10/07/11 00:00
Lab Sample ID:	**1110196-10**	Sampled By:	TML
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/14/11 By: DLV
Dilution Factor:	1	Analyzed:	10/14/11 By: DLV
QC Batch:	1111274	Analytical Batch:	1J17004

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*100*	*88-116*
1,2-Dichloroethane-d4	*105*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-29s**	Sampled:	10/10/11 06:47
Lab Sample ID:	**1110196-11**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	**1.3**	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-29s**	Sampled:	10/10/11 06:47
Lab Sample ID:	**1110196-11**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-29s**	Sampled:	10/10/11 06:47
Lab Sample ID:	**1110196-11**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*101*	*88-116*
1,2-Dichloroethane-d4	*104*	*87-123*
Toluene-d8	*100*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-29d**	Sampled:	10/10/11 07:40
Lab Sample ID:	**1110196-12**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-29d**	Sampled:	10/10/11 07:40
Lab Sample ID:	**1110196-12**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-29d**	Sampled:	10/10/11 07:40
Lab Sample ID:	**1110196-12**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*101*	*88-116*
1,2-Dichloroethane-d4	*104*	*87-123*
Toluene-d8	*98*	*91-107*
4-Bromofluorobenzene	*94*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-13s**	Sampled:	10/10/11 08:44
Lab Sample ID:	**1110196-13**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-13s**	Sampled:	10/10/11 08:44
Lab Sample ID:	**1110196-13**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-13s**	Sampled:	10/10/11 08:44
Lab Sample ID:	**1110196-13**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*102*	*88-116*
1,2-Dichloroethane-d4	*105*	*87-123*
Toluene-d8	*100*	*91-107*
4-Bromofluorobenzene	*94*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-30s**	Sampled:	10/10/11 10:00
Lab Sample ID:	**1110196-14**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-30s**	Sampled:	10/10/11 10:00
Lab Sample ID:	**1110196-14**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-30s**	Sampled:	10/10/11 10:00
Lab Sample ID:	**1110196-14**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*103*	*88-116*
1,2-Dichloroethane-d4	*105*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-30d**	Sampled:	10/10/11 10:36
Lab Sample ID:	**1110196-15**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-30d**	Sampled:	10/10/11 10:36
Lab Sample ID:	**1110196-15**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-30d**	Sampled:	10/10/11 10:36
Lab Sample ID:	**1110196-15**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*102*	*88-116*
1,2-Dichloroethane-d4	*105*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-20s**	Sampled:	10/10/11 11:37
Lab Sample ID:	**1110196-16**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	2	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<40	40
107-13-1	Acrylonitrile	<4.0	4.0
71-43-2	Benzene	<2.0	2.0
108-86-1	Bromobenzene	<2.0	2.0
74-97-5	Bromochloromethane	<2.0	2.0
75-27-4	Bromodichloromethane	<2.0	2.0
75-25-2	Bromoform	<2.0	2.0
74-83-9	Bromomethane	<10	10
104-51-8	n-Butylbenzene	<2.0	2.0
135-98-8	sec-Butylbenzene	<2.0	2.0
98-06-6	tert-Butylbenzene	<2.0	2.0
75-15-0	Carbon Disulfide	<2.0	2.0
56-23-5	Carbon Tetrachloride	<2.0	2.0
108-90-7	Chlorobenzene	<2.0	2.0
75-00-3	Chloroethane	<10	10
67-66-3	Chloroform	<2.0	2.0
74-87-3	Chloromethane	<10	10
96-12-8	1,2-Dibromo-3-chloropropane	<10	10
124-48-1	Dibromochloromethane	<2.0	2.0
106-93-4	1,2-Dibromoethane	<2.0	2.0
74-95-3	Dibromomethane	<2.0	2.0
110-57-6	trans-1,4-Dichloro-2-butene	<2.0	2.0
95-50-1	1,2-Dichlorobenzene	<2.0	2.0
541-73-1	1,3-Dichlorobenzene	<2.0	2.0
106-46-7	1,4-Dichlorobenzene	<2.0	2.0
75-71-8	Dichlorodifluoromethane	<10	10
75-34-3	1,1-Dichloroethane	**5.8**	2.0
107-06-2	1,2-Dichloroethane	<2.0	2.0
75-35-4	1,1-Dichloroethene	<2.0	2.0
156-59-2	cis-1,2-Dichloroethene	<2.0	2.0
156-60-5	trans-1,2-Dichloroethene	<2.0	2.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-20s**	Sampled:	10/10/11 11:37
Lab Sample ID:	**1110196-16**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	2	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	<2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	<2.0	2.0
100-41-4	Ethylbenzene	<2.0	2.0
60-29-7	Ethyl Ether	<10	10
591-78-6	2-Hexanone	<10	10
74-88-4	Iodomethane	<2.0	2.0
98-82-8	Isopropylbenzene	<2.0	2.0
99-87-6	4-Isopropyltoluene	<10	10
1634-04-4	Methyl tert-Butyl Ether	<10	10
75-09-2	Methylene Chloride	<10	10
78-93-3	2-Butanone (MEK)	<10	10
91-57-6	2-Methylnaphthalene	<10	10
108-10-1	4-Methyl-2-pentanone (MIBK)	<10	10
91-20-3	Naphthalene	<10	10
103-65-1	n-Propylbenzene	<2.0	2.0
100-42-5	Styrene	<2.0	2.0
630-20-6	1,1,1,2-Tetrachloroethane	<2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	<2.0	2.0
127-18-4	Tetrachloroethene	<2.0	2.0
109-99-9	Tetrahydrofuran	<10	10
108-88-3	Toluene	<2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	<10	10
120-82-1	1,2,4-Trichlorobenzene	<10	10
71-55-6	1,1,1-Trichloroethane	**190**	2.0
79-00-5	1,1,2-Trichloroethane	<2.0	2.0
79-01-6	Trichloroethene	**110**	2.0
75-69-4	Trichlorofluoromethane	**3.1**	2.0
96-18-4	1,2,3-Trichloropropane	<2.0	2.0
95-63-6	1,2,4-Trimethylbenzene	<2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	<2.0	2.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-20s**	Sampled:	10/10/11 11:37
Lab Sample ID:	**1110196-16**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	2	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<2.0	2.0
179601-23-1	Xylene, Meta + Para	<4.0	4.0
95-47-6	Xylene, Ortho	<2.0	2.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*101*	*88-116*
1,2-Dichloroethane-d4	*102*	*87-123*
Toluene-d8	*98*	*91-107*
4-Bromofluorobenzene	*94*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-20d**	Sampled:	10/10/11 12:11
Lab Sample ID:	**1110196-17**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/14/11 By: DLV
Dilution Factor:	2	Analyzed:	10/14/11 By: DLV
QC Batch:	1111274	Analytical Batch:	1J17004

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<40	40
107-13-1	Acrylonitrile	<4.0	4.0
71-43-2	Benzene	<2.0	2.0
108-86-1	Bromobenzene	<2.0	2.0
74-97-5	Bromochloromethane	<2.0	2.0
75-27-4	Bromodichloromethane	<2.0	2.0
75-25-2	Bromoform	<2.0	2.0
74-83-9	Bromomethane	<10	10
104-51-8	n-Butylbenzene	<2.0	2.0
135-98-8	sec-Butylbenzene	<2.0	2.0
98-06-6	tert-Butylbenzene	<2.0	2.0
75-15-0	Carbon Disulfide	<2.0	2.0
56-23-5	Carbon Tetrachloride	<2.0	2.0
108-90-7	Chlorobenzene	<2.0	2.0
75-00-3	Chloroethane	<10	10
67-66-3	Chloroform	<2.0	2.0
74-87-3	Chloromethane	<10	10
96-12-8	1,2-Dibromo-3-chloropropane	<10	10
124-48-1	Dibromochloromethane	<2.0	2.0
106-93-4	1,2-Dibromoethane	<2.0	2.0
74-95-3	Dibromomethane	<2.0	2.0
110-57-6	trans-1,4-Dichloro-2-butene	<2.0	2.0
95-50-1	1,2-Dichlorobenzene	<2.0	2.0
541-73-1	1,3-Dichlorobenzene	<2.0	2.0
106-46-7	1,4-Dichlorobenzene	<2.0	2.0
75-71-8	Dichlorodifluoromethane	<10	10
75-34-3	1,1-Dichloroethane	<2.0	2.0
107-06-2	1,2-Dichloroethane	<2.0	2.0
75-35-4	1,1-Dichloroethene	<2.0	2.0
156-59-2	cis-1,2-Dichloroethene	**200**	2.0
156-60-5	trans-1,2-Dichloroethene	<2.0	2.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-20d**	Sampled:	10/10/11 12:11
Lab Sample ID:	**1110196-17**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/14/11 By: DLV
Dilution Factor:	2	Analyzed:	10/14/11 By: DLV
QC Batch:	1111274	Analytical Batch:	1J17004

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	<2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	<2.0	2.0
100-41-4	Ethylbenzene	<2.0	2.0
60-29-7	Ethyl Ether	<10	10
591-78-6	2-Hexanone	<10	10
74-88-4	Iodomethane	<2.0	2.0
98-82-8	Isopropylbenzene	<2.0	2.0
99-87-6	4-Isopropyltoluene	<10	10
1634-04-4	Methyl tert-Butyl Ether	<10	10
75-09-2	Methylene Chloride	<10	10
78-93-3	2-Butanone (MEK)	<10	10
91-57-6	2-Methylnaphthalene	<10	10
108-10-1	4-Methyl-2-pentanone (MIBK)	<10	10
91-20-3	Naphthalene	<10	10
103-65-1	n-Propylbenzene	<2.0	2.0
100-42-5	Styrene	<2.0	2.0
630-20-6	1,1,1,2-Tetrachloroethane	<2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	<2.0	2.0
127-18-4	Tetrachloroethene	<2.0	2.0
109-99-9	Tetrahydrofuran	<10	10
108-88-3	Toluene	<2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	<10	10
120-82-1	1,2,4-Trichlorobenzene	<10	10
71-55-6	1,1,1-Trichloroethane	<2.0	2.0
79-00-5	1,1,2-Trichloroethane	<2.0	2.0
79-01-6	Trichloroethene	<2.0	2.0
75-69-4	Trichlorofluoromethane	<2.0	2.0
96-18-4	1,2,3-Trichloropropane	<2.0	2.0
95-63-6	1,2,4-Trimethylbenzene	<2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	<2.0	2.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-20d**	Sampled:	10/10/11 12:11
Lab Sample ID:	**1110196-17**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/14/11 By: DLV
Dilution Factor:	2	Analyzed:	10/14/11 By: DLV
QC Batch:	1111274	Analytical Batch:	1J17004

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**2.5**	2.0
179601-23-1	Xylene, Meta + Para	<4.0	4.0
95-47-6	Xylene, Ortho	<2.0	2.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*100*	*88-116*
1,2-Dichloroethane-d4	*106*	*87-123*
Toluene-d8	*100*	*91-107*
4-Bromofluorobenzene	*97*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-25s**	Sampled:	10/10/11 13:03
Lab Sample ID:	**1110196-18**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-25s**	Sampled:	10/10/11 13:03
Lab Sample ID:	**1110196-18**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	**20**	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**2.8**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-25s**	Sampled:	10/10/11 13:03
Lab Sample ID:	**1110196-18**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*101*	*88-116*
1,2-Dichloroethane-d4	*102*	*87-123*
Toluene-d8	*100*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-7s**	Sampled:	10/10/11 13:50
Lab Sample ID:	**1110196-19**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-7s**	Sampled:	10/10/11 13:50
Lab Sample ID:	**1110196-19**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	**1.4**	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**13**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-7s**	Sampled:	10/10/11 13:50
Lab Sample ID:	**1110196-19**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*100*	*88-116*
1,2-Dichloroethane-d4	*104*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-5s**	Sampled:	10/10/11 14:00
Lab Sample ID:	**1110196-20**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-5s**	Sampled:	10/10/11 14:00
Lab Sample ID:	**1110196-20**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	**5.1**	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**150**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-5s**	Sampled:	10/10/11 14:00
Lab Sample ID:	**1110196-20**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/13/11 By: DLV
Dilution Factor:	1	Analyzed:	10/13/11 By: DLV
QC Batch:	1111167	Analytical Batch:	1J14015

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*101*	*88-116*
1,2-Dichloroethane-d4	*104*	*87-123*
Toluene-d8	*99*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**EB-03**	Sampled:	10/10/11 15:00
Lab Sample ID:	**1110196-21**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/14/11 By: DLV
Dilution Factor:	1	Analyzed:	10/14/11 By: DLV
QC Batch:	1111274	Analytical Batch:	1J17004

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**EB-03**	Sampled:	10/10/11 15:00
Lab Sample ID:	**1110196-21**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/14/11 By: DLV
Dilution Factor:	1	Analyzed:	10/14/11 By: DLV
QC Batch:	1111274	Analytical Batch:	1J17004

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**EB-03**	Sampled:	10/10/11 15:00
Lab Sample ID:	**1110196-21**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/14/11 By: DLV
Dilution Factor:	1	Analyzed:	10/14/11 By: DLV
QC Batch:	1111274	Analytical Batch:	1J17004

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*101*	*88-116*
1,2-Dichloroethane-d4	*106*	*87-123*
Toluene-d8	*98*	*91-107*
4-Bromofluorobenzene	*95*	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-05**	Sampled:	10/10/11 00:00
Lab Sample ID:	**1110196-22**	Sampled By:	TML
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/14/11 By: DLV
Dilution Factor:	1	Analyzed:	10/14/11 By: DLV
QC Batch:	1111274	Analytical Batch:	1J17004

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-05**	Sampled:	10/10/11 00:00
Lab Sample ID:	**1110196-22**	Sampled By:	TML
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/14/11 By: DLV
Dilution Factor:	1	Analyzed:	10/14/11 By: DLV
QC Batch:	1111274	Analytical Batch:	1J17004

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110196**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-05**	Sampled:	10/10/11 00:00
Lab Sample ID:	**1110196-22**	Sampled By:	TML
Matrix:	Water	Received:	10/11/11 18:05
Unit:	ug/L	Prepared:	10/14/11 By: DLV
Dilution Factor:	1	Analyzed:	10/14/11 By: DLV
QC Batch:	1111274	Analytical Batch:	1J17004

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*101*	*88-116*
1,2-Dichloroethane-d4	*106*	*87-123*
Toluene-d8	*98*	*91-107*
4-Bromofluorobenzene	*96*	*84-106*

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TRIMATRIX LABORATORIES

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 1110922 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank Analyzed: 10/07/2011 By: DLV

Unit: ug/L Analytical Batch: 1J10025

Acetone	<20	--	20
Acrylonitrile	<2.0		2.0
Benzene	<1.0		1.0
Bromobenzene	<1.0		1.0
Bromochloromethane	<1.0		1.0
Bromodichloromethane	<1.0		1.0
Bromoform	<1.0		1.0
Bromomethane	<5.0		5.0
n-Butylbenzene	<1.0		1.0
sec-Butylbenzene	<1.0		1.0
tert-Butylbenzene	<1.0		1.0
Carbon Disulfide	<1.0	--	1.0
Carbon Tetrachloride	<1.0		1.0
Chlorobenzene	<1.0		1.0
Chloroethane	<5.0		5.0
Chloroform	<1.0		1.0
Chloromethane	<5.0		5.0
1,2-Dibromo-3-chloropropane	<5.0		5.0
Dibromochloromethane	<1.0		1.0
1,2-Dibromoethane	<1.0		1.0
Dibromomethane	<1.0		1.0
trans-1,4-Dichloro-2-butene	<1.0		1.0
1,2-Dichlorobenzene	<1.0		1.0
1,3-Dichlorobenzene	<1.0	--	1.0
1,4-Dichlorobenzene	<1.0	--	1.0
Dichlorodifluoromethane	<5.0		5.0
1,1-Dichloroethane	<1.0		1.0
1,2-Dichloroethane	<1.0		1.0
1,1-Dichloroethene	<1.0		1.0
cis-1,2-Dichloroethene	<1.0		1.0
trans-1,2-Dichloroethene	<1.0		1.0
1,2-Dichloropropane	<1.0		1.0
cis-1,3-Dichloropropene	<1.0		1.0
trans-1,3-Dichloropropene	<1.0		1.0
Ethylbenzene	<1.0		1.0
Ethyl Ether	<5.0		5.0

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Volatile Organic Compounds by EPA Method 8260B (Continued)

QC Batch: 1110922 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued)

Analyzed: 10/07/2011 By: DLV
Unit: ug/L Analytical Batch: 1J10025

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
2-Hexanone			<5.0					5.0
Iodomethane			<1.0					1.0
Isopropylbenzene			<1.0					1.0
4-Isopropyltoluene			<5.0					5.0
Methyl tert-Butyl Ether			<5.0					5.0
Methylene Chloride			<5.0					5.0
2-Butanone (MEK)			<5.0					5.0
2-Methylnaphthalene			<5.0					5.0
4-Methyl-2-pentanone (MIBK)			<5.0					5.0
Naphthalene			<5.0			--		5.0
n-Propylbenzene			<1.0					1.0
Styrene			<1.0					1.0
1,1,1,2-Tetrachloroethane			<1.0					1.0
1,1,2,2-Tetrachloroethane			<1.0					1.0
Tetrachloroethene			<1.0					1.0
Tetrahydrofuran			<5.0					5.0
Toluene			<1.0					1.0
1,2,3-Trichlorobenzene			<5.0					5.0
1,2,4-Trichlorobenzene			<5.0					5.0
1,1,1-Trichloroethane			<1.0					1.0
1,1,2-Trichloroethane			<1.0					1.0
Trichloroethene			<1.0					1.0
Trichlorofluoromethane			<1.0					1.0
1,2,3-Trichloropropane			<1.0					1.0
1,2,4-Trimethylbenzene			<1.0					1.0
1,3,5-Trimethylbenzene			<1.0					1.0
Vinyl Chloride			<1.0					1.0
Xylene, Meta + Para			<2.0					2.0
Xylene, Ortho			<1.0					1.0
Surrogates:								
Dibromofluoromethane				*106*	*88-116*			
1,2-Dichloroethane-d4				*105*	*87-123*			
Toluene-d8				*103*	*91-107*			
4-Bromofluorobenzene				*98*	*84-106*			

Laboratory Control Sample

Analyzed: 10/07/2011 By: DLV
Unit: ug/L Analytical Batch: 1J10025

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Benzene		40.0	**37.7**	94	84-119	--	20	1.0

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Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 1110922 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B								
Laboratory Control Sample (Continued)					Analyzed:		10/07/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J10025	
Chlorobenzene		40.0	**36.5**	91	84-118	--	20	1.0
1,1-Dichloroethene		40.0	**35.9**	90	77-123	--	20	1.0
Toluene		40.0	**38.3**	96	85-118	--	20	1.0
Trichloroethene		40.0	**37.4**	94	82-119	--	20	1.0
Surrogates:								
Dibromofluoromethane				*97*	*88-116*			
1,2-Dichloroethane-d4				*100*	*87-123*			
Toluene-d8				*101*	*91-107*			
4-Bromofluorobenzene				*102*	*84-106*			
Matrix Spike 1110049-04 MW-31					Analyzed:		10/07/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J10025	
Benzene	<1.0	40.0	**42.5**	106	80-129	--	9	1.0
Chlorobenzene	<1.0	40.0	**40.6**	101	80-121	--	8	1.0
1,1-Dichloroethene	0.500	40.0	**41.5**	103	74-134	--	11	1.0
Toluene	<1.0	40.0	**42.3**	106	79-129	--	9	1.0
Trichloroethene	340	40.0	**365**	**64**	75-127	--	10	1.0
Surrogates:								
Dibromofluoromethane				*101*	*88-116*			
1,2-Dichloroethane-d4				*102*	*87-123*			
Toluene-d8				*100*	*91-107*			
4-Bromofluorobenzene				*103*	*84-106*			
Matrix Spike Duplicate 1110049-04 MW-31					Analyzed:		10/07/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J10025	
Benzene	<1.0	40.0	**44.1**	110	80-129	4	9	1.0
Chlorobenzene	<1.0	40.0	**42.0**	105	80-121	4	8	1.0
1,1-Dichloroethene	0.500	40.0	**43.8**	108	74-134	5	11	1.0
Toluene	<1.0	40.0	**44.1**	110	79-129	4	9	1.0
Trichloroethene	340	40.0	**383**	109	75-127	5	10	1.0
Surrogates:								
Dibromofluoromethane				*101*	*88-116*			
1,2-Dichloroethane-d4				*103*	*87-123*			
Toluene-d8				*101*	*91-107*			
4-Bromofluorobenzene				*101*	*84-106*			
QC Batch: 1110923 5030B Aqueous Purge & Trap/USEPA-8260B								
Method Blank					Analyzed:		10/08/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J10027	
Acetone			<20			--	20	

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Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 1110923 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 10/08/2011 By: DLV

Unit: ug/L Analytical Batch: 1J10027

Acrylonitrile	<2.0			2.0
Benzene	<1.0			1.0
Bromobenzene	<1.0			1.0
Bromochloromethane	<1.0			1.0
Bromodichloromethane	<1.0			1.0
Bromoform	<1.0			1.0
Bromomethane	<5.0			5.0
n-Butylbenzene	<1.0			1.0
sec-Butylbenzene	<1.0			1.0
tert-Butylbenzene	<1.0			1.0
Carbon Disulfide	<1.0		--	1.0
Carbon Tetrachloride	<1.0			1.0
Chlorobenzene	<1.0			1.0
Chloroethane	<5.0			5.0
Chloroform	<1.0			1.0
Chloromethane	<5.0			5.0
1,2-Dibromo-3-chloropropane	<5.0			5.0
Dibromochloromethane	<1.0			1.0
1,2-Dibromoethane	<1.0			1.0
Dibromomethane	<1.0			1.0
trans-1,4-Dichloro-2-butene	<1.0			1.0
1,2-Dichlorobenzene	<1.0			1.0
1,3-Dichlorobenzene	<1.0		--	1.0
1,4-Dichlorobenzene	<1.0		--	1.0
Dichlorodifluoromethane	<5.0			5.0
1,1-Dichloroethane	<1.0			1.0
1,2-Dichloroethane	<1.0			1.0
1,1-Dichloroethene	<1.0			1.0
cis-1,2-Dichloroethene	<1.0			1.0
trans-1,2-Dichloroethene	<1.0			1.0
1,2-Dichloropropane	<1.0			1.0
cis-1,3-Dichloropropene	<1.0			1.0
trans-1,3-Dichloropropene	<1.0			1.0
Ethylbenzene	<1.0			1.0
Ethyl Ether	<5.0			5.0
2-Hexanone	<5.0			5.0

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Volatile Organic Compounds by EPA Method 8260B (Continued)

QC Batch: 1110923 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 10/08/2011 By: DLV
Unit: ug/L Analytical Batch: 1J10027

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Iodomethane			<1.0					1.0
Isopropylbenzene			<1.0					1.0
4-Isopropyltoluene			<5.0					5.0
Methyl tert-Butyl Ether			<5.0					5.0
Methylene Chloride			<5.0					5.0
2-Butanone (MEK)			<5.0					5.0
2-Methylnaphthalene			<5.0					5.0
4-Methyl-2-pentanone (MIBK)			<5.0					5.0
Naphthalene			<5.0			--		5.0
n-Propylbenzene			<1.0					1.0
Styrene			<1.0					1.0
1,1,1,2-Tetrachloroethane			<1.0					1.0
1,1,2,2-Tetrachloroethane			<1.0					1.0
Tetrachloroethene			<1.0					1.0
Tetrahydrofuran			<5.0					5.0
Toluene			<1.0					1.0
1,2,3-Trichlorobenzene			<5.0					5.0
1,2,4-Trichlorobenzene			<5.0					5.0
1,1,1-Trichloroethane			<1.0					1.0
1,1,2-Trichloroethane			<1.0					1.0
Trichloroethene			<1.0					1.0
Trichlorofluoromethane			<1.0					1.0
1,2,3-Trichloropropane			<1.0					1.0
1,2,4-Trimethylbenzene			<1.0					1.0
1,3,5-Trimethylbenzene			<1.0					1.0
Vinyl Chloride			<1.0					1.0
Xylene, Meta + Para			<2.0					2.0
Xylene, Ortho			<1.0					1.0
Surrogates:								
Dibromofluoromethane				*106*	*88-116*			
1,2-Dichloroethane-d4				*107*	*87-123*			
Toluene-d8				*103*	*91-107*			
4-Bromofluorobenzene				*97*	*84-106*			

Laboratory Control Sample Analyzed: 10/07/2011 By: DLV
Unit: ug/L Analytical Batch: 1J10027

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Benzene		40.0	**41.6**	104	84-119	--	20	1.0

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 1110923 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B								
Laboratory Control Sample (Continued)					Analyzed:		10/07/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J10027	
Chlorobenzene		40.0	**40.4**	101	84-118	--	20	1.0
1,1-Dichloroethene		40.0	**39.7**	99	77-123	--	20	1.0
Toluene		40.0	**41.6**	104	85-118	--	20	1.0
Trichloroethene		40.0	**44.4**	111	82-119	--	20	1.0
Surrogates:								
Dibromofluoromethane				*100*	*88-116*			
1,2-Dichloroethane-d4				*102*	*87-123*			
Toluene-d8				*102*	*91-107*			
4-Bromofluorobenzene				*103*	*84-106*			
Matrix Spike 1110100-03 MW-27s					Analyzed:		10/08/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J10027	
Benzene	<1.0	40.0	**42.6**	106	80-129	--	9	1.0
Chlorobenzene	<1.0	40.0	**41.0**	103	80-121	--	8	1.0
1,1-Dichloroethene	<1.0	40.0	**43.9**	110	74-134	--	11	1.0
Toluene	<1.0	40.0	**42.6**	106	79-129	--	9	1.0
Trichloroethene	0.880	40.0	**43.2**	106	75-127	--	10	1.0
Surrogates:								
Dibromofluoromethane				*100*	*88-116*			
1,2-Dichloroethane-d4				*101*	*87-123*			
Toluene-d8				*100*	*91-107*			
4-Bromofluorobenzene				*101*	*84-106*			
Matrix Spike Duplicate 1110100-03 MW-27s					Analyzed:		10/08/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J10027	
Benzene	<1.0	40.0	**43.7**	109	80-129	3	9	1.0
Chlorobenzene	<1.0	40.0	**42.1**	105	80-121	2	8	1.0
1,1-Dichloroethene	<1.0	40.0	**44.6**	112	74-134	2	11	1.0
Toluene	<1.0	40.0	**43.3**	108	79-129	2	9	1.0
Trichloroethene	0.880	40.0	**44.2**	108	75-127	2	10	1.0
Surrogates:								
Dibromofluoromethane				*99*	*88-116*			
1,2-Dichloroethane-d4				*100*	*87-123*			
Toluene-d8				*100*	*91-107*			
4-Bromofluorobenzene				*101*	*84-106*			
QC Batch: 1111033 5030B Aqueous Purge & Trap/USEPA-8260B								
Method Blank					Analyzed:		10/11/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J12010	
Acetone			<20				20	

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Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 1111033 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 10/11/2011 By: DLV

Unit: ug/L Analytical Batch: 1J12010

Acrylonitrile	<2.0			2.0
Benzene	<1.0			1.0
Bromobenzene	<1.0			1.0
Bromochloromethane	<1.0			1.0
Bromodichloromethane	<1.0			1.0
Bromoform	<1.0			1.0
Bromomethane	<5.0			5.0
n-Butylbenzene	<1.0			1.0
sec-Butylbenzene	<1.0			1.0
tert-Butylbenzene	<1.0			1.0
Carbon Disulfide	<1.0		--	1.0
Carbon Tetrachloride	<1.0			1.0
Chlorobenzene	<1.0			1.0
Chloroethane	<5.0			5.0
Chloroform	<1.0			1.0
Chloromethane	<5.0			5.0
1,2-Dibromo-3-chloropropane	<5.0			5.0
Dibromochloromethane	<1.0			1.0
1,2-Dibromoethane	<1.0			1.0
Dibromomethane	<1.0			1.0
trans-1,4-Dichloro-2-butene	<1.0			1.0
1,2-Dichlorobenzene	<1.0			1.0
1,3-Dichlorobenzene	<1.0		--	1.0
1,4-Dichlorobenzene	<1.0		--	1.0
Dichlorodifluoromethane	<5.0			5.0
1,1-Dichloroethane	<1.0			1.0
1,2-Dichloroethane	<1.0			1.0
1,1-Dichloroethene	<1.0			1.0
cis-1,2-Dichloroethene	<1.0			1.0
trans-1,2-Dichloroethene	<1.0			1.0
1,2-Dichloropropane	<1.0			1.0
cis-1,3-Dichloropropene	<1.0			1.0
trans-1,3-Dichloropropene	<1.0			1.0
Ethylbenzene	<1.0			1.0
Ethyl Ether	<5.0			5.0
2-Hexanone	<5.0			5.0

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Volatile Organic Compounds by EPA Method 8260B (Continued)

QC Batch: 1111033 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 10/11/2011 By: DLV
Unit: ug/L Analytical Batch: 1J12010

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Iodomethane			<1.0					1.0
Isopropylbenzene			<1.0					1.0
4-Isopropyltoluene			<5.0					5.0
Methyl tert-Butyl Ether			<5.0					5.0
Methylene Chloride			<5.0					5.0
2-Butanone (MEK)			<5.0					5.0
2-Methylnaphthalene			<5.0					5.0
4-Methyl-2-pentanone (MIBK)			<5.0					5.0
Naphthalene			<5.0					5.0
n-Propylbenzene			<1.0					1.0
Styrene			<1.0					1.0
1,1,1,2-Tetrachloroethane			<1.0					1.0
1,1,2,2-Tetrachloroethane			<1.0					1.0
Tetrachloroethene			<1.0					1.0
Tetrahydrofuran			<5.0					5.0
Toluene			<1.0					1.0
1,2,3-Trichlorobenzene			<5.0					5.0
1,2,4-Trichlorobenzene			<5.0					5.0
1,1,1-Trichloroethane			<1.0					1.0
1,1,2-Trichloroethane			<1.0					1.0
Trichloroethene			<1.0					1.0
Trichlorofluoromethane			<1.0					1.0
1,2,3-Trichloropropane			<1.0					1.0
1,2,4-Trimethylbenzene			<1.0					1.0
1,3,5-Trimethylbenzene			<1.0					1.0
Vinyl Chloride			<1.0					1.0
Xylene, Meta + Para			<2.0					2.0
Xylene, Ortho			<1.0					1.0
Surrogates:								
Dibromofluoromethane				*98*	*88-116*			
1,2-Dichloroethane-d4				*101*	*87-123*			
Toluene-d8				*98*	*91-107*			
4-Bromofluorobenzene				*95*	*84-106*			

Laboratory Control Sample Analyzed: 10/11/2011 By: DLV
Unit: ug/L Analytical Batch: 1J12010

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Benzene		40.0	**40.1**	100	84-119	--	20	1.0

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Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 1111033 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B								
Laboratory Control Sample (Continued)					Analyzed:		10/11/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J12010	
Chlorobenzene		40.0	**39.8**	100	84-118	--	20	1.0
1,1-Dichloroethene		40.0	**38.0**	95	77-123	--	20	1.0
Toluene		40.0	**40.7**	102	85-118	--	20	1.0
Trichloroethene		40.0	**40.0**	100	82-119	--	20	1.0
Surrogates:								
Dibromofluoromethane				*95*	*88-116*			
1,2-Dichloroethane-d4				*96*	*87-123*			
Toluene-d8				*99*	*91-107*			
4-Bromofluorobenzene				*98*	*84-106*			
Matrix Spike 1110049-04RE1 MW-31					Analyzed:		10/11/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J12010	
Benzene	<2.5	100	**98.8**	99	80-129	--	9	2.5
Chlorobenzene	<2.5	100	**98.0**	98	80-121	--	8	2.5
1,1-Dichloroethene	<2.5	100	**94.0**	94	74-134	--	11	2.5
Toluene	<2.5	100	**99.4**	99	79-129	--	9	2.5
Trichloroethene	270	100	**374**	104	75-127	--	10	2.5
Surrogates:								
Dibromofluoromethane				*96*	*88-116*			
1,2-Dichloroethane-d4				*97*	*87-123*			
Toluene-d8				*101*	*91-107*			
4-Bromofluorobenzene				*99*	*84-106*			
Matrix Spike Duplicate 1110049-04RE1 MW-31					Analyzed:		10/11/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J12010	
Benzene	<2.5	100	**101**	101	80-129	2	9	2.5
Chlorobenzene	<2.5	100	**99.6**	100	80-121	2	8	2.5
1,1-Dichloroethene	<2.5	100	**99.4**	99	74-134	6	11	2.5
Toluene	<2.5	100	**101**	101	79-129	2	9	2.5
Trichloroethene	270	100	**373**	103	75-127	0.2	10	2.5
Surrogates:								
Dibromofluoromethane				*94*	*88-116*			
1,2-Dichloroethane-d4				*97*	*87-123*			
Toluene-d8				*99*	*91-107*			
4-Bromofluorobenzene				*98*	*84-106*			
QC Batch: 1111167 5030B Aqueous Purge & Trap/USEPA-8260B								
Method Blank					Analyzed:		10/13/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J14015	
Acetone			<20			--	20	

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Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 1111167 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 10/13/2011 By: DLV

Unit: ug/L Analytical Batch: 1J14015

Acrylonitrile	<2.0			2.0
Benzene	<1.0			1.0
Bromobenzene	<1.0			1.0
Bromochloromethane	<1.0			1.0
Bromodichloromethane	<1.0			1.0
Bromoform	<1.0			1.0
Bromomethane	<5.0			5.0
n-Butylbenzene	<1.0			1.0
sec-Butylbenzene	<1.0			1.0
tert-Butylbenzene	<1.0			1.0
Carbon Disulfide	<1.0		--	1.0
Carbon Tetrachloride	<1.0			1.0
Chlorobenzene	<1.0			1.0
Chloroethane	<5.0			5.0
Chloroform	<1.0			1.0
Chloromethane	<5.0			5.0
1,2-Dibromo-3-chloropropane	<5.0			5.0
Dibromochloromethane	<1.0			1.0
1,2-Dibromoethane	<1.0			1.0
Dibromomethane	<1.0			1.0
trans-1,4-Dichloro-2-butene	<1.0			1.0
1,2-Dichlorobenzene	<1.0			1.0
1,3-Dichlorobenzene	<1.0			1.0
1,4-Dichlorobenzene	<1.0			1.0
Dichlorodifluoromethane	<5.0			5.0
1,1-Dichloroethane	<1.0			1.0
1,2-Dichloroethane	<1.0			1.0
1,1-Dichloroethene	<1.0			1.0
cis-1,2-Dichloroethene	<1.0			1.0
trans-1,2-Dichloroethene	<1.0			1.0
1,2-Dichloropropane	<1.0			1.0
cis-1,3-Dichloropropene	<1.0			1.0
trans-1,3-Dichloropropene	<1.0			1.0
Ethylbenzene	<1.0			1.0
Ethyl Ether	<5.0			5.0
2-Hexanone	<5.0			5.0

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Volatile Organic Compounds by EPA Method 8260B (Continued)

QC Batch: 1111167 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 10/13/2011 By: DLV
Unit: ug/L Analytical Batch: 1J14015

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Iodomethane			<1.0					1.0
Isopropylbenzene			<1.0					1.0
4-Isopropyltoluene			<5.0					5.0
Methyl tert-Butyl Ether			<5.0					5.0
Methylene Chloride			<5.0					5.0
2-Butanone (MEK)			<5.0					5.0
2-Methylnaphthalene			<5.0					5.0
4-Methyl-2-pentanone (MIBK)			<5.0					5.0
Naphthalene			<5.0					5.0
n-Propylbenzene			<1.0					1.0
Styrene			<1.0					1.0
1,1,1,2-Tetrachloroethane			<1.0					1.0
1,1,2,2-Tetrachloroethane			<1.0					1.0
Tetrachloroethene			<1.0					1.0
Tetrahydrofuran			<5.0					5.0
Toluene			<1.0					1.0
1,2,3-Trichlorobenzene			<5.0					5.0
1,2,4-Trichlorobenzene			<5.0					5.0
1,1,1-Trichloroethane			<1.0					1.0
1,1,2-Trichloroethane			<1.0					1.0
Trichloroethene			<1.0					1.0
Trichlorofluoromethane			<1.0					1.0
1,2,3-Trichloropropane			<1.0					1.0
1,2,4-Trimethylbenzene			<1.0					1.0
1,3,5-Trimethylbenzene			<1.0					1.0
Vinyl Chloride			<1.0					1.0
Xylene, Meta + Para			<2.0					2.0
Xylene, Ortho			<1.0					1.0
Surrogates:								
Dibromofluoromethane				*98*	*88-116*			
1,2-Dichloroethane-d4				*101*	*87-123*			
Toluene-d8				*99*	*91-107*			
4-Bromofluorobenzene				*96*	*84-106*			

Laboratory Control Sample Analyzed: 10/13/2011 By: DLV
Unit: ug/L Analytical Batch: 1J14015

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Benzene		40.0	**39.4**	98	84-119	--	20	1.0

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Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 1111167 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B								
Laboratory Control Sample (Continued)					Analyzed:		10/13/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J14015	
Chlorobenzene		40.0	**38.7**	97	84-118	--	20	1.0
1,1-Dichloroethene		40.0	**37.2**	93	77-123	--	20	1.0
Toluene		40.0	**40.3**	101	85-118	--	20	1.0
Trichloroethene		40.0	**39.6**	99	82-119	--	20	1.0
Surrogates:								
Dibromofluoromethane				*96*	*88-116*			
1,2-Dichloroethane-d4				*99*	*87-123*			
Toluene-d8				*101*	*91-107*			
4-Bromofluorobenzene				*98*	*84-106*			
Matrix Spike 1110196-16 MW-20s					Analyzed:		10/13/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J14015	
Benzene	<2.0	80.0	**82.7**	103	80-129	--	9	2.0
Chlorobenzene	<2.0	80.0	**80.8**	101	80-121	--	8	2.0
1,1-Dichloroethene	1.06	80.0	**76.7**	94	74-134	--	11	2.0
Toluene	<2.0	80.0	**84.3**	105	79-129	--	9	2.0
Trichloroethene	109	80.0	**189**	101	75-127	--	10	2.0
Surrogates:								
Dibromofluoromethane				*98*	*88-116*			
1,2-Dichloroethane-d4				*100*	*87-123*			
Toluene-d8				*102*	*91-107*			
4-Bromofluorobenzene				*100*	*84-106*			
Matrix Spike Duplicate 1110196-16 MW-20s					Analyzed:		10/13/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J14015	
Benzene	<2.0	80.0	**80.5**	101	80-129	3	9	2.0
Chlorobenzene	<2.0	80.0	**78.1**	98	80-121	3	8	2.0
1,1-Dichloroethene	1.06	80.0	**72.8**	90	74-134	5	11	2.0
Toluene	<2.0	80.0	**80.9**	101	79-129	4	9	2.0
Trichloroethene	109	80.0	**181**	90	75-127	4	10	2.0
Surrogates:								
Dibromofluoromethane				*96*	*88-116*			
1,2-Dichloroethane-d4				*100*	*87-123*			
Toluene-d8				*100*	*91-107*			
4-Bromofluorobenzene				*100*	*84-106*			
QC Batch: 1111274 5030B Aqueous Purge & Trap/USEPA-8260B								
Method Blank					Analyzed:		10/14/2011	By: DLV
Unit: ug/L					Analytical Batch:		1J17004	
Acetone			<20			--	20	

Continued on next page

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Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 1111274 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 10/14/2011 By: DLV

Unit: ug/L Analytical Batch: 1J17004

Acrylonitrile	<2.0			2.0
Benzene	<1.0			1.0
Bromobenzene	<1.0			1.0
Bromochloromethane	<1.0			1.0
Bromodichloromethane	<1.0			1.0
Bromoform	<1.0			1.0
Bromomethane	<5.0			5.0
n-Butylbenzene	<1.0			1.0
sec-Butylbenzene	<1.0			1.0
tert-Butylbenzene	<1.0			1.0
Carbon Disulfide	<1.0		--	1.0
Carbon Tetrachloride	<1.0			1.0
Chlorobenzene	<1.0			1.0
Chloroethane	<5.0			5.0
Chloroform	<1.0			1.0
Chloromethane	<5.0			5.0
1,2-Dibromo-3-chloropropane	<5.0			5.0
Dibromochloromethane	<1.0			1.0
1,2-Dibromoethane	<1.0			1.0
Dibromomethane	<1.0			1.0
trans-1,4-Dichloro-2-butene	<1.0			1.0
1,2-Dichlorobenzene	<1.0			1.0
1,3-Dichlorobenzene	<1.0			1.0
1,4-Dichlorobenzene	<1.0			1.0
Dichlorodifluoromethane	<5.0			5.0
1,1-Dichloroethane	<1.0			1.0
1,2-Dichloroethane	<1.0			1.0
1,1-Dichloroethene	<1.0			1.0
cis-1,2-Dichloroethene	<1.0			1.0
trans-1,2-Dichloroethene	<1.0			1.0
1,2-Dichloropropane	<1.0			1.0
cis-1,3-Dichloropropene	<1.0			1.0
trans-1,3-Dichloropropene	<1.0			1.0
Ethylbenzene	<1.0			1.0
Ethyl Ether	<5.0			5.0
2-Hexanone	<5.0			5.0

Continued on next page

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Volatile Organic Compounds by EPA Method 8260B (Continued)

QC Batch: 1111274 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 10/14/2011 By: DLV
Unit: ug/L Analytical Batch: 1J17004

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Iodomethane			<1.0					1.0
Isopropylbenzene			<1.0					1.0
4-Isopropyltoluene			<5.0					5.0
Methyl tert-Butyl Ether			<5.0					5.0
Methylene Chloride			<5.0					5.0
2-Butanone (MEK)			<5.0					5.0
2-Methylnaphthalene			<5.0					5.0
4-Methyl-2-pentanone (MIBK)			<5.0					5.0
Naphthalene			<5.0					5.0
n-Propylbenzene			<1.0					1.0
Styrene			<1.0					1.0
1,1,1,2-Tetrachloroethane			<1.0					1.0
1,1,2,2-Tetrachloroethane			<1.0					1.0
Tetrachloroethene			<1.0					1.0
Tetrahydrofuran			<5.0					5.0
Toluene			<1.0					1.0
1,2,3-Trichlorobenzene			<5.0					5.0
1,2,4-Trichlorobenzene			<5.0					5.0
1,1,1-Trichloroethane			<1.0					1.0
1,1,2-Trichloroethane			<1.0					1.0
Trichloroethene			<1.0					1.0
Trichlorofluoromethane			<1.0					1.0
1,2,3-Trichloropropane			<1.0					1.0
1,2,4-Trimethylbenzene			<1.0					1.0
1,3,5-Trimethylbenzene			<1.0					1.0
Vinyl Chloride			<1.0					1.0
Xylene, Meta + Para			<2.0					2.0
Xylene, Ortho			<1.0					1.0
Surrogates:								
Dibromofluoromethane				*100*	*88-116*			
1,2-Dichloroethane-d4				*102*	*87-123*			
Toluene-d8				*98*	*91-107*			
4-Bromofluorobenzene				*96*	*84-106*			

Laboratory Control Sample Analyzed: 10/14/2011 By: DLV
Unit: ug/L Analytical Batch: 1J17004

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Benzene		40.0	**42.2**	105	84-119	--	20	1.0

Continued on next page

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Volatile Organic Compounds by EPA Method 8260B (Continued)

QC Batch: 1111274 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued) Analyzed: 10/14/2011 By: DLV

Unit: ug/L Analytical Batch: 1J17004

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Chlorobenzene		40.0	**40.7**	102	84-118	--	20	1.0
1,1-Dichloroethene		40.0	**38.1**	95	77-123	--	20	1.0
Toluene		40.0	**42.8**	107	85-118	--	20	1.0
Trichloroethene		40.0	**42.2**	105	82-119	--	20	1.0
Surrogates:								
Dibromofluoromethane				*96*	*88-116*			
1,2-Dichloroethane-d4				*102*	*87-123*			
Toluene-d8				*102*	*91-107*			
4-Bromofluorobenzene				*101*	*84-106*			

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STATEMENT OF DATA QUALIFICATIONS

Volatile Organic Compounds by EPA Method 8260B

Qualification: The result for this analyte was above the linear range of the initial calibration curve and must be considered as estimated.

Analysis: USEPA-8260B

Sample/Analyte:	1110049-04	MW-31	Trichloroethene

Qualification: The corresponding CCV for this analytical batch had a recovery below the lower control limit of the method. Positive results for this analyte in any associated samples are considered estimated; non-detectable results are considered approximate.

Analysis: USEPA-8260B

Sample/Analyte:			
	1110049-05	EB-01	Chloromethane
	1110100-01	MW-14d	Chloromethane
	1110100-02	Dup-01	Chloromethane
	1110100-03	MW-27s	Chloromethane
	1110100-04	MW-27d	Chloromethane
	1110100-05	MW-18s	Chloromethane
	1110100-06	MW-19d	Chloromethane
	1110100-07	Dup-02	Chloromethane
	1110100-08	MW-19s	Chloromethane
	1110100-09	MW-6	Chloromethane
	1110100-10	MW-23	Chloromethane
	1110100-11	TB-02	Chloromethane

Qualification: The MS or MSD recovery, but not both, was outside the control limit. The RPD is within the control limit. The unspiked sample result is not qualified.

Analysis: USEPA-8260B

Sample/Analyte:	1110049-04	MW-31	Trichloroethene

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Chain of Custody Record

COC No. 137265

Pg. 1 of 1

For Lab Use Only

Cart: 3
VOA Rack/Tray: 214 White
Receipt Log No.: 43-1
Project Chemist:
Work Order No.: 1110049

Client Name: TRC
Address: 3754 Ranchero Drive
City, State Zip: Ann Arbor MI 48108
Phone/Fax: 734-971 7080 734-971 9022
Email:

Project Name: TRC
Client Project No. / P.O. No.: 00434.0000.0000
Invoice To: ☑ Client ☐ Other (comments)
Contact/Report To: Stacy Metz

Analyses Requested: D – VOC 8260; D – Iron II; A – Chloride; A – Nitrate; A – Sulfate

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Container Type (corresponds to Container Packing List)

Schedule	Matrix Code	Sample Number		Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
01		01	1	MW-17s		10/4/11	1051		X	GW	+ + + + +	4	
		02	2	WL-01			1103		+	SW	X	2	
		03	3	MW-22			1208		+	GW	+	2	
02		04	4	MW-31			1314		+	X	X	2	
			5	MW-31 ms/msd			1314		+	+	X	4	
01		05	6	E.B.			1346		+	DI	+	2	
		06	7	MW-24s			1434		+	GW	+ + + + +	4	
		07	8	MW-24D			1529		+	+	+ + + + +	4	
		08	9	MW-10s			1650		+	+	+ + + + +	4	
03		09	10	Trip Blank					+	DI	+	2	

Sampled By (print): Javier Jasso
Sampler's Signature: [signature]
Company: TRC

How Shipped? Hand ___ Carrier FedEx
Tracking No.

Comments:

	Date	Time
1. Relinquished By: [signature]	10/4/11	1745
1. Received By:		
2. Relinquished By:		
2. Received By:		
3. Relinquished By:		
3. Received For Lab By: [signature]	10/5/11	0830

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SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: TRC
Receipt Record Page/Line #: 43-1
Work Order #: 1110049
New / Add To
Project Chemist
Sample #s

Recorded by (initials/date): LR 10/5/11

☑ Cooler ☐ Box ☐ Other
Qty Received: 1

Thermometer Used: ☑ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#_____)
☐ See Additional Cooler Information Form

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via
0344	0836	☑ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☑ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container

Cooler #	Recorded °C	Correction Factor °C	Actual °C	Average °C	Cooler ID on COC?	VOC Trip Blank received?
0344	3.3	–	3.3	3.3	☐	☑ x2
	2.7	–	2.7			
	3.8	–	3.8			
					☐	☐
					☐	☐
					☐	☐

Temp Blank: ____ TB location: Representative / Not Representative

If any shaded areas checked, complete Sample Receiving Non-Conformance Form

Paperwork Received

☐ No COC Received

N/A	Yes	No	
	☑	☐	Chain of Custody record(s)?
	☐		If No, COC Initiated By _____
	☑		Rec'd for Lab Signed/Date/Time?
☐	☑		Shipping document?
☑	☐		Other _____

COC ID #s

☑ TriMatrix 137265

☐ Other (Name or ID#)_____

Check COC for Accuracy

☐ No analysis requested

Yes	No	
☑	■	Sample ID matches COC?
☑	■	Sample Date and Time matches COC?
☑		Container type completed on COC?
☑	■	All container types indicated are received?

Sample Condition Summary

☐ Non-TriMatrix containers, see Notes

N/A	Yes	No	
	■	☑	Broken containers/lids?
	■	☑	Missing or incomplete labels?
	■	☑	Illegible information on labels?
	■	☑	Low volume received?
	■	☑	Inappropriate containers received?
☐	■	☑	VOC vials / TOX containers have headspace?
☐	■	☑	Extra sample locations / containers not listed on COC?

Check Sample Preservation

N/A	Yes	No	
	☐	☑	Average sample temperature ≤6° C?
☐	☑		Completed Sample Preservation Verification Form?
☐	☑	■	Samples preserved correctly?
☑	☐		If "No", added orange tag?
☑	☐		Received pre-preserved VOC soils? ☐ MeOH ☐ Na_2SO_4

Check for Short Hold-Time Prep/Analyses

☐ Bacteriological
☐ Air Bags
☐ EnCores / Methanol Pre-Preserved
☐ Formaldehyde/Aldehyde
☑ Green-tagged containers
☐ Yellow/White-tagged 1L ambers (SV Prep-Lab)

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S)
☐ NONE RECEIVED
☑ RECEIVED, COCs TO LAB(S)

Notes

☑ Trip Blank received ☐ Trip Blank not listed on COC
☐ No COC received, Proj. Chemist reviewed (Init/Date) _____
☐ No analysis requested, Proj. Chemist completed (Init/Date) _____

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
10/5/11 0830	10/5/11 0850	(Yes) / No

Log In Forms - Receiving.Log-In_Checklist

revision: 3.0

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Chain of Custody Record

COC No. 137978

Pg. 2 of 4

For Lab Use Only

Cart

VOA Rack/Tray: 665, 731 W

Receipt Log No.: 45-6

Project Chemist

Work Order No.: 111000

Client Name: TRC

Address: 3754 Ranchero Drive

City, State Zip: Ann Arbor MI 48108

Phone/Fax: 734-971-7080 734-971-9037

Email

Project Name: T.P.C.

Client Project No. / P.O. No.: 064304.0000.000

Invoice To: ☒ Client ☐ Other (comments)

Contact/Report To: Stacy Mate

Analyses Requested: VOC 8260

Container Type (corresponds to Container Packing List)

Number of Containers Submitted

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Schedule	Matrix Code	Sample Number		Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix		Total	Sample Comments
01		01	1	MW 14D		10/5/11	0854		G	W	1	2	
1		02	2	Dup-01			—		G	W	1	2	
02		03	3	MW 27s			1036		G	W	1	2	
			4	MW 27s MS/MSD			1036		G	S	1	2	
01		04	5	MW-27D			1109		G	S	1	2	
		05	6	MW-18s			1259		G	S	1	2	
		06	7	MW-19D			1444		G	S	1	2	
		07	8	Dup-02			—		G	S	1	2	
		08	9	MW-19s			1525		G	S	1	2	
		09	10	MW-6			1630		G	S	1	2	

Sampled By (print): Jacob Jacobs

Sampler's Signature: [signature]

Company: TRC

How Shipped? Hand ___ Carrier Fedex

Tracking No.

1. Relinquished By: [signature] Date 10/6/11 Time 1830

1. Received By: Date Time

2. Relinquished By: Date Time

2. Received By: Date Time

3. Relinquished By: Date Time

3. Received For Lab By: [signature] Date 10/6/11 Time 0835

Comments

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Chain of Custody Record

COC No. 137979

Pg. 4 of 4

For Lab Use Only

Cart

VOA Rack/Tray: 665, 731 W

Receipt Log No.: 45-6

Project Chemist

Work Order No.: 1110100

Client Name: TRC

Address: 8754 Ranchero Drive

City, State Zip: Ann Arbor MI 48108

Phone/Fax: 734-971-7080 734-971-9017

Email

Project Name: T.P.C

Client Project No. / P.O. No.: 004704.6000.0000

Invoice To: ☒ Client ☐ Other (comments)

Contact/Report To: Stacy Mutl

Analyses Requested

Container Type (corresponds to Container Packing List): D, VOC 8260

Number of Containers Submitted

Schedule	Matrix Code	Sample Number	Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix			Total	Sample Comments
01		10	MW-23		10/5/11	1704		X	GW	X		2	
03		11	Trip Blank						DI	X		1	

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Sampled By (print): Jason Jones

Sampler's Signature

Company: TRC

How Shipped? Hand ___ Carrier FedEx

Tracking No.

1. Relinquished By: 10/5/11 Date Time 1820

1. Received By: Date Time

2. Relinquished By: Date Time

2. Received By: Date Time

3. Relinquished By: Date Time

3. Received For Lab By: 10/6/11 0835

Comments

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SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: TRC
Work Order #: 1110100
New / Add To
Receipt Record Page/Line #: 45-6
Project Chemist
Sample #s

Recorded by (initials/date): LR 10/6/11

☑ Cooler ☐ Box ☐ Other _____

Qty Received: 1

Thermometer Used: ☑ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#_____)

☐ See Additional Cooler Information Form

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
–	0930	☑ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☑ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☑ Temperature Blank (TB); ☐ 1 Container	Temp Blank:		5.1		
						TB location: Representative / Not Representative				
						1: 5.5	–	5.5		
						2: 5.4	–	5.4		
						3: 5.3	–	5.3		
							Average °C	5.4		

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container	Temp Blank:				
						TB location: Representative / Not Representative				
						1				
						2				
						3				
							Average °C			

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container	Temp Blank:				
						TB location: Representative / Not Representative				
						1				
						2				
						3				
							Average °C			

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container	Temp Blank:				
						TB location: Representative / Not Representative				
						1				
						2				
						3				
							Average °C			

If any shaded areas checked, complete Sample Receiving Non-Conformance Form

Paperwork Received

☐ No COC Received

N/A	Yes	No	
	☑	☐	Chain of Custody record(s)?
	☐		If No, COC Initiated By _____
	☑		Rec'd for Lab Signed/Date/Time?
☐	☑		Shipping document?
☑	☐		Other _____

COC ID #s

☑ TriMatrix 137978, 137979

☐ Other (Name or ID#)_____

Check COC for Accuracy

☐ No analysis requested

Yes	No	
☑	■	Sample ID matches COC?
☑	■	Sample Date and Time matches COC?
☑		Container type completed on COC?
☑	■	All container types indicated are received?

Sample Condition Summary

☐ Non-TriMatrix containers, see Notes

N/A	Yes	No	
	■	☑	Broken containers/lids?
	■	☑	Missing or incomplete labels?
	■	☑	Illegible information on labels?
	■	☑	Low volume received?
	■	☑	Inappropriate containers received?
☐	■	☑	VOC vials / TOX containers have headspace?
☐	■	☑	Extra sample locations / containers not listed on COC?

Check Sample Preservation

N/A	Yes	No	
	☑	■	Average sample temperature ≤6° C?
☑	☐		Completed Sample Preservation Verification Form?
☑	☐	■	Samples preserved correctly?
☑	☐		If "No", added orange tag?
☑	☐		Received pre-preserved VOC soils?

☐ MeOH ☐ Na_2SO_4

Check for Short Hold-Time Prep/Analyses

- ☐ Bacteriological
- ☐ Air Bags
- ☐ EnCores / Methanol Pre-Preserved
- ☐ Formaldehyde/Aldehyde
- ☐ Green-tagged containers
- ☐ Yellow/White-tagged 1L ambers (SV Prep-Lab)

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S)
☑ NONE RECEIVED
☐ RECEIVED, COCs TO LAB(S)

Notes

☑ Trip Blank received ☐ Trip Blank not listed on COC
☐ No COC received, Proj. Chemist reviewed (Init/Date) _____
☐ No analysis requested, Proj. Chemist completed (Init/Date) _____

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
10/6/11 0835	10/6/11 0933	Yes / No

Log In Forms - Receiving.Log-In_Checklist

revision: 3.0

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Chain of Custody Record

COC No. 137982

Pg. 2 of 2

For Lab Use Only
Cart: –
VOA Rack/Tray: 679 White
Receipt Log No.: 47-3
Project Chemist:
Work Order No.: 1110125

Client Name: TRC
Address: 3754 Ranchero Drive
City, State Zip: Ann Arbor MI 48108
Phone/Fax: 734-971-7080 734-971-9022
Email:

Project Name: T.R.C
Client Project No. / P.O. No.: 004364.0000.0000
Invoice To: ☑ Client ☐ Other (comments)
Contact/Report To: Stacy Metz

Analyses Requested: D; VOC 8260

Container Type (corresponds to Container Packing List)

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Schedule	Matrix Code	Sample Number		Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
01		01	1	MW 33s		10/6/11	0800		X	GW	X	2	
		02	2	MW 32s			0900		X	X	X	2	
		03	3	MW 34s			0950		X	X	X	2	
		04	4	MW 3s			1058		X	X	X	2	
		05	5	EB 01 (JK)			1105		X	DI	X	2	
		06	6	MW 4s			1139		X	GW	X	2	
		07	7	MW-1s			1214		X	X	X	2	
		08	8	Dup-03			—		X	X	X	2	
		09	9	MW-21			1325		X	X	X	2	
03		10	10	Trip Blank						DI	X	1	

Sampled By (print): Javier Jass
Sampler's Signature:
Company: TRC

How Shipped? Hand ___ Carrier Fedex
Tracking No.

Comments

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	10/6/11	1440						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
							10/7/11	0810

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TRIMATRIX LABORATORIES

SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: TRC
Receipt Record Page/Line #: 47-3
Work Order #: 1110125
New / Add To
Project Chemist | Sample #s

Recorded by (initials/date): LR 10/7/11
☑ Cooler ☐ Box ☐ Other
Qty Received: 1
Thermometer Used: ☑ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#_____)
☐ See Additional Cooler Information Form

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
1286	0848	☑ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☑ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container	Temp Blank:			☐	☑
						1 5.0	–	5.0		
						2 4.9	–	4.9		
						3 3.8	–	3.8		
						Average °C		4.6		
Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container	Temp Blank:			☐	☐
						1				
						2				
						3				
						Average °C				
Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container	Temp Blank:			☐	☐
						1				
						2				
						3				
						Average °C				
Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container	Temp Blank:			☐	☐
						1				
						2				
						3				
						Average °C				

If any shaded areas checked, complete Sample Receiving Non-Conformance Form

Paperwork Received

☐ No COC Received

N/A	Yes	No	
	☑	☐	Chain of Custody record(s)?
	☐		If No, COC Initiated By _____
	☑		Rec'd for Lab Signed/Date/Time?
☐	☑		Shipping document?
☑	☐		Other _____

COC ID #s

☑ TriMatrix 137982

☐ Other (Name or ID#)_____

Check COC for Accuracy

☐ No analysis requested

Yes	No	
☐	☑	Sample ID matches COC?
☑	■	Sample Date and Time matches COC?
☑		Container type completed on COC?
☑	■	All container types indicated are received?

Sample Condition Summary

☐ Non-TriMatrix containers, see Notes

N/A	Yes	No	
	■	☑	Broken containers/lids?
	■	☑	Missing or incomplete labels?
	■	☑	Illegible information on labels?
	■	☑	Low volume received?
	■	☑	Inappropriate containers received?
☐	■	☑	VOC vials / TOX containers have headspace?
☐	■	☑	Extra sample locations / containers not listed on COC?

Check Sample Preservation

N/A	Yes	No	
	☑	■	Average sample temperature ≤6° C?
☑	☐		Completed Sample Preservation Verification Form?
☑	☐	■	Samples preserved correctly?
☑	☐		If "No", added orange tag?
☑	☐		Received pre-preserved VOC soils?

☐ MeOH ☐ Na_2SO_4

Check for Short Hold-Time Prep/Analyses

- ☐ Bacteriological
- ☐ Air Bags
- ☐ EnCores / Methanol Pre-Preserved
- ☐ Formaldehyde/Aldehyde
- ☐ Green-tagged containers
- ☐ Yellow/White-tagged 1L ambers (SV Prep-Lab)

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S)
☐ NONE RECEIVED
☑ RECEIVED, COCs TO LAB(S)

Notes

☑ Trip Blank received ☐ Trip Blank not listed on COC
☐ No COC received, Proj. Chemist reviewed (Init/Date) _____
☐ No analysis requested, Proj. Chemist completed (Init/Date) _____

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
10/7/11 0810	10/7/11 0855	(Yes) / No

Log In Forms - Receiving.Log-In_Checklist

revision: 3.0

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Chain of Custody Record

COC No. 137983

Pg. ___ of ___

For Lab Use Only

Cart: 30X
VOA Rack/Tray: -
Receipt Log No.: 4-29
Project Chemist: JZR
Work Order No.: 1110196

Client Name: TRC
Address: 3754 Ranchero Div
City, State Zip: Ann Arbor MI 48108
Phone/Fax: 734-971-7080 / 734-971-9013
Email:

Project Name: T. P.C
Client Project No. / P.O. No.: 004304.000000
Invoice To: ☐ Client ☐ Other (comments)
Contact/Report To: Stacy Mott

Analyses Requested: VOC 8260

Container Type (corresponds to Container Packing List): 1

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Schedule	Matrix Code	Sample Number		Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
01		01	1	MW-26s	TRC 2015	10/7/11	0725		+	GW	+	2	
		02	2	MW-15s			0832		+	+	+	2	
		03	3	MW-14s			092		+	+	+	2	
		04	4	MW 2s			1005		+	+	+	2	
		05	5	MW-11s			1148		+	+	+	2	
		06	6	MW-28s			1238		+	+	+	2	
		07	7	MW-28D			1335		+	+	+	2	
		08	8	MW-12s			1444		+	+	+	2	
		09	9	MW-12D			1516		+	+	+	2	
03		10	10	~~TB PBlank~~ TB-04					X		X +	1	

Sampled By (print): JAYN JASS
Sampler's Signature:
Company: TRC

How Shipped? Hand ___ Carrier ___
Tracking No.:

Comments:

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	10/7/11	1630		10/11/11	18:05			

1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
	10/11	15:45				J. Hardin	10/11/11	1805

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Chain of Custody Record

COC No. 137984

Pg. 1 of 2

For Lab Use Only
Cart: 3DX
VOA Rack/Tray: -
Receipt Log No.: 4-29
Project Chemist: JLR
Work Order No.: 1101916

Client Name: TRC
Address: 3754 Rachel Drive
City, State Zip: Ann Arbor MI 48108
Phone/Fax: 734 971 7080 734 971 9017
Email:

Project Name: T.P.C
Client Project No. / P.O. No.: 064304.0000.000
Invoice To: ☑ Client ☐ Other (comments)
Contact/Report To: Stacy Metz

Analyses Requested: VOC 8260 D

Container Type (corresponds to Container Packing List): 1

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Schedule	Matrix Code	Sample Number	Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
01		11	1 MW-29S	TRC 2015	10/10/11	0647		+	GW	+	2	
		12	2 MW-29D			0746		+	+	+	2	
		13	3 MW-13S			0844		+	+	+	2	
		14	4 MW-30S			1000		+	+	+	2	
		15	5 MW-30D			1036		+	+	+	2	
02		16	6 MW-20S			1137		+	+	+	2	
			7 MW-20S MS+MSD			1137		+	+	+	4	
01		17	8 MW-20D			1211		+	+	+	2	
		18	9 MW-25S			1303		+	+	+	2	
		19	10 MW-7S			1350		+	+	+	2	

Sampled By (print): Jacob Jass
Sampler's Signature: [signature]
Company: TRC

How Shipped? Hand ___ Carrier ___
Tracking No.:

Comments:

	Date	Time
1. Relinquished By: [signature]	10/10/11	1610
1. Received By: [signature]	10/11/11	15:45
2. Relinquished By: Kay Johnson	10/11/11	18:05
2. Received By:		
3. Relinquished By:		
3. Received For Lab By: J. Dilardin	10/11/11	1805

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Chain of Custody Record

COC No. 137985

Pg. 2 of 2

For Lab Use Only

Cart: 30X
VOA Rack/Tray: -
Receipt Log No.: 4-29
Project Chemist: JR
Work Order No.: 1110196

Client Name: TRC
Address: 3754 Ranchero Drive
City, State Zip: Ann Arbor MI 48108
Phone/Fax: 734 971 7080 734 971 9022
Email:

Project Name: T.P.C.
Client Project No. / P.O. No.: 004304.0000.00W
Invoice To: ☒ Client ☐ Other (comments)
Contact/Report To: Stacy Metz

Analyses Requested: VOC 624 D

Container Type (corresponds to Container Packing List): 1

Number of Containers Submitted

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Schedule	Matrix Code	Sample Number		Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Total	Sample Comments
01		20	1	MW-5	TR 2015	10/10/11	1400		G	water	2	
1		21	2	EB-03	↓	↓	1500		G	DI water	2	
03		22	3	~~Trip Blank~~ TB-05	↓		—			DI water	1	
			4									
			5									
			6									
			7									
			8									
			9									
			10									

Sampled By (print): JAVIER JASSO
Sampler's Signature: [signature]
Company: TRC

How Shipped? Hand ___ Carrier ✓
Tracking No.

Comments

	Relinquished By	Date	Time	Received By	Date	Time
1.	[signature]	10/10/11	1616	[signature]	10/11/11	15:45
2.	Ray Johnson	10/11/11	18:05			
3.				J. Hardin	10/11/11	1805

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TRIMATRIX LABORATORIES

TRIMATRIX LABORATORIES

SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: TRC
Receipt Record Page/Line #: 4-29
Work Order #: 1110196
New / Add To
Project Chemist | Sample #s

Recorded by (initials/date): DN 10/11/11

☑ Cooler ☐ Box ☐ Other
Qty Received: 1

Thermometer Used: ☑ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#_____) ☐ See Additional Cooler Information Form

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
TM2215	1946	☑ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ☑ None / Avg 2-3 containers	☑ Temperature Blank (TB); ☐ 1 Container	Temp Blank: 0		10.7	☑	☑
						TB location: Representative / Not Representative				
						1: 12.4	0	12.4		
						2: 11.9	0	11.9		
						3: 11.1	0	11.1		
						Average °C		11.8		

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ☐ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container	Temp Blank:			☐	☐
						TB location: Representative / Not Representative				
						1				
						2				
						3				
						Average °C				

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ☐ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container	Temp Blank:			☐	☐
						TB location: Representative / Not Representative				
						1				
						2				
						3				
						Average °C				

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ☐ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container	Temp Blank:			☐	☐
						TB location: Representative / Not Representative				
						1				
						2				
						3				
						Average °C				

If any shaded areas checked, complete Sample Receiving Non-Conformance Form

Paperwork Received

☐ No COC Received

N/A	Yes	No	
	☑	☐	Chain of Custody record(s)? If No, COC Initiated By _____
	☐	☑	Rec'd for Lab Signed/Date/Time?
	☑	☐	Shipping document?
	☑	☐	Other _____

COC ID #s

☑ TriMatrix 137983, 137984, 137985

☐ Other (Name or ID#) _____

Check COC for Accuracy

☐ No analysis requested

Yes	No	
☐	☑	Sample ID matches COC?
☑	☐	Sample Date and Time matches COC?
☑		Container type completed on COC?
☑	☐	All container types indicated are received?

Sample Condition Summary

☐ Non-TriMatrix containers, see Notes

N/A	Yes	No	
	☐	☑	Broken containers/lids?
	☐	☑	Missing or incomplete labels?
	☐	☑	Illegible information on labels?
	☐	☑	Low volume received?
	☐	☑	Inappropriate containers received?
☐	☑	☐	VOC vials / TOX containers have headspace?
☑	☐	☐	Extra sample locations / containers not listed on COC?

Check Sample Preservation

N/A	Yes	No	
	☐	☑	Average sample temperature ≤6° C?
☑	☐		Completed Sample Preservation Verification Form?
☑	☐	☐	Samples preserved correctly?
☑	☐		If "No", added orange tag?
☑	☐		Received pre-preserved VOC soils? ☐ MeOH ☐ Na_2SO_4

Check for Short Hold-Time Prep/Analyses

☐ Bacteriological
☐ Air Bags
☐ EnCores / Methanol Pre-Preserved
☐ Formaldehyde/Aldehyde
☐ Green-tagged containers
☐ Yellow/White-tagged 1L ambers (SV Prep-Lab)

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S)
☑ NONE RECEIVED
☐ RECEIVED, COCs TO LAB(S)

Notes

☑ Trip Blank received ☐ Trip Blank not listed on COC
☐ No COC received, Proj. Chemist reviewed (Init/Date) _____
☐ No analysis requested, Proj. Chemist completed (Init/Date) _____

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
DN 10/11/11	DN 10/11/11	Yes / No

Log In Forms - Receiving.Log-In_Checklist

revision: 3.0

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October 20, 2011

TRC Companies. - Ann Arbor Office
Attn: Ms. Stacy Metz
3754 Ranchero Drive
Ann Arbor, MI 48108-2771

Project: Tecumseh Products

Dear Ms. Stacy Metz,

Enclosed is a copy of the laboratory report for the following work order(s) received by TriMatrix Laboratories:

Work Order	Received	Description
1110050	10/05/2011	Laboratory Services
1110099	10/06/2011	Laboratory Services
1110124	10/07/2011	Laboratory Services

This report relates only to the sample(s) as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) and/or one of the following certification programs:

ACLASS DoD-ELAP (#ADE-1542); Arkansas DEP (#10-046-0); Florida DEP (#E87622-05); Georgia EPD (#E87622-05); Illinois DEP (#002656); Kansas DPH (#E-10302); Kentucky DEP (#0021); Louisiana DEP (#03068); Michigan DPH (#0034); Minnesota DPH (#026-999-161); New York ELAP (#44950); North Carolina DNRE (#659); Rhode Island DPH (#E87622); Texas CEQ (#T104704495-11-1); Virginia DCLS (#919); Wisconsin DNR (#999472650).

Any qualification or narration of results, including sample acceptance requirements and test exceptions to the above referenced programs, is presented in the Statement of Data Qualifications section of this report. Estimates of analytical uncertainties and certification documents for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110050**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-17s**	Sampled:	10/04/11 10:51
Lab Sample ID:	**1110050-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**91**	1.0	mg/L	1	SM 4500-Cl E 20th	10/13/11 12:17	LMA	1111133
***Iron, Ferrous**	**0.062**	0.020	mg/L	1	SM 3500-Fe B 20th	10/05/11 09:13	CLD	1110747
Nitrogen, Nitrate	**0.051**	0.050	mg/L	1	SM 4500-NO3 F 20th	10/05/11 13:21	CAC	1111172
Sulfate	**40**	10	mg/L	2	ASTM D516-90 (02)	10/13/11 11:36	LMA	1111143

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110050**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-24s**	Sampled:	10/04/11 14:34
Lab Sample ID:	**1110050-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**200**	5.0	mg/L	5	SM 4500-Cl E 20th	10/13/11 13:32	LMA	1111133
***Iron, Ferrous**	**0.028**	0.020	mg/L	1	SM 3500-Fe B 20th	10/05/11 09:15	CLD	1110747
Nitrogen, Nitrate	**2.8**	0.25	mg/L	5	SM 4500-NO3 F 20th	10/05/11 13:53	CAC	1111172
Sulfate	**75**	25	mg/L	5	ASTM D516-90 (02)	10/13/11 12:26	LMA	1111143

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110050**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-24d**	Sampled:	10/04/11 15:29
Lab Sample ID:	**1110050-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**910**	10	mg/L	10	SM 4500-Cl E 20th	10/13/11 13:32	LMA	1111133
***Iron, Ferrous**	**1.1**	0.10	mg/L	5	SM 3500-Fe B 20th	10/05/11 09:15	CLD	1110747
Nitrogen, Nitrate	<0.050	0.050	mg/L	1	SM 4500-NO3 F 20th	10/05/11 13:26	CAC	1111172
Sulfate	**99**	25	mg/L	5	ASTM D516-90 (02)	10/13/11 12:26	LMA	1111143

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110050**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-10s**	Sampled:	10/04/11 16:50
Lab Sample ID:	**1110050-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/05/11 08:30

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**97**	1.0	mg/L	1	SM 4500-Cl E 20th	10/13/11 12:19	LMA	1111133
***Iron, Ferrous**	**0.10**	0.020	mg/L	1	SM 3500-Fe B 20th	10/05/11 09:16	CLD	1110747
Nitrogen, Nitrate	<0.050	0.050	mg/L	1	SM 4500-NO3 F 20th	10/05/11 13:27	CAC	1111172
Sulfate	**36**	10	mg/L	2	ASTM D516-90 (02)	10/13/11 11:39	LMA	1111143

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110099**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-14d**	Sampled:	10/05/11 08:54
Lab Sample ID:	**1110099-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**150**	2.0	mg/L	2	SM 4500-Cl E 20th	10/13/11 13:03	LMA	1111133
***Iron, Ferrous**	**0.23**	0.020	mg/L	1	SM 3500-Fe B 20th	10/06/11 09:53	CLD	1110801
Nitrogen, Nitrate	**0.26**	0.050	mg/L	1	SM 4500-NO3 F 20th	10/06/11 12:13	CAC	1111442
Sulfate	**61**	10	mg/L	2	ASTM D516-90 (02)	10/13/11 11:58	LMA	1111143

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TRIMATRIX LABORATORIES

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Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110099**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Dup-01**	Sampled:	10/05/11 00:00
Lab Sample ID:	**1110099-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**150**	2.0	mg/L	2	SM 4500-Cl E 20th	10/13/11 13:03	LMA	1111133
***Iron, Ferrous**	**0.038**	0.020	mg/L	1	SM 3500-Fe B 20th	10/06/11 09:53	CLD	1110801
Nitrogen, Nitrate	**0.26**	0.050	mg/L	1	SM 4500-NO3 F 20th	10/06/11 12:14	CAC	1111442
Sulfate	**61**	10	mg/L	2	ASTM D516-90 (02)	10/13/11 11:58	LMA	1111143

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110099**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-27s**	Sampled:	10/05/11 10:26
Lab Sample ID:	**1110099-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**210**	5.0	mg/L	5	SM 4500-Cl E 20th	10/13/11 13:03	LMA	1111133
***Iron, Ferrous**	**0.083**	0.020	mg/L	1	SM 3500-Fe B 20th	10/06/11 09:54	CLD	1110801
Nitrogen, Nitrate	**1.4**	0.50	mg/L	10	SM 4500-NO3 F 20th	10/06/11 13:08	CAC	1111442
Sulfate	**54**	10	mg/L	2	ASTM D516-90 (02)	10/13/11 11:58	LMA	1111143

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ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110099**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-27d**	Sampled:	10/05/11 11:09
Lab Sample ID:	**1110099-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**230**	5.0	mg/L	5	SM 4500-Cl E 20th	10/13/11 13:05	LMA	1111133
***Iron, Ferrous**	**0.22**	0.020	mg/L	1	SM 3500-Fe B 20th	10/06/11 09:55	CLD	1110801
Nitrogen, Nitrate	**0.31**	0.050	mg/L	1	SM 4500-NO3 F 20th	10/06/11 12:19	CAC	1111442
Sulfate	**66**	10	mg/L	2	ASTM D516-90 (02)	10/13/11 12:02	LMA	1111143

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110099**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-18s**	Sampled:	10/05/11 12:59
Lab Sample ID:	**1110099-05**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**230**	5.0	mg/L	5	SM 4500-Cl E 20th	10/13/11 13:05	LMA	1111133
***Iron, Ferrous**	**0.034**	0.020	mg/L	1	SM 3500-Fe B 20th	10/06/11 09:55	CLD	1110801
Nitrogen, Nitrate	**2.1**	0.25	mg/L	5	SM 4500-NO3 F 20th	10/06/11 13:12	CAC	1111442
Sulfate	**38**	10	mg/L	2	ASTM D516-90 (02)	10/13/11 12:02	LMA	1111143

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110099**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-19d**	Sampled:	10/05/11 14:44
Lab Sample ID:	**1110099-06**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**130**	2.0	mg/L	2	SM 4500-Cl E 20th	10/13/11 13:05	LMA	1111133
***Iron, Ferrous**	**1.1**	0.10	mg/L	5	SM 3500-Fe B 20th	10/06/11 09:55	CLD	1110801
Nitrogen, Nitrate	<0.050	0.050	mg/L	1	SM 4500-NO3 F 20th	10/06/11 12:21	CAC	1111442
Sulfate	**62**	10	mg/L	2	ASTM D516-90 (02)	10/13/11 12:06	LMA	1111143

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110099**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Dup-02**	Sampled:	10/05/11 00:00
Lab Sample ID:	**1110099-07**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**120**	2.0	mg/L	2	SM 4500-Cl E 20th	10/13/11 13:05	LMA	1111133
***Iron, Ferrous**	**0.030**	0.020	mg/L	1	SM 3500-Fe B 20th	10/06/11 09:56	CLD	1110801
Nitrogen, Nitrate	**2.4**	0.25	mg/L	5	SM 4500-NO3 F 20th	10/06/11 13:13	CAC	1111442
Sulfate	**32**	5.0	mg/L	1	ASTM D516-90 (02)	10/13/11 10:29	LMA	1111143

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110099**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-19s**	Sampled:	10/05/11 15:25
Lab Sample ID:	**1110099-08**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**120**	2.0	mg/L	2	SM 4500-Cl E 20th	10/13/11 13:06	LMA	1111133
***Iron, Ferrous**	**0.029**	0.020	mg/L	1	SM 3500-Fe B 20th	10/06/11 09:56	CLD	1110801
Nitrogen, Nitrate	**2.4**	0.25	mg/L	5	SM 4500-NO3 F 20th	10/06/11 13:14	CAC	1111442
Sulfate	**32**	10	mg/L	2	ASTM D516-90 (02)	10/13/11 12:06	LMA	1111143

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110099**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-6s**	Sampled:	10/05/11 16:30
Lab Sample ID:	**1110099-09**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**170**	2.0	mg/L	2	SM 4500-Cl E 20th	10/13/11 13:23	LMA	1111133
***Iron, Ferrous**	**0.026**	0.020	mg/L	1	SM 3500-Fe B 20th	10/06/11 09:57	CLD	1110801
Nitrogen, Nitrate	**6.3**	0.50	mg/L	10	SM 4500-NO3 F 20th	10/06/11 13:15	CAC	1111442
Sulfate	**44**	10	mg/L	2	ASTM D516-90 (02)	10/13/11 12:06	LMA	1111143

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110099**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-23**	Sampled:	10/05/11 17:04
Lab Sample ID:	**1110099-10**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/06/11 08:35

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**210**	5.0	mg/L	5	SM 4500-Cl E 20th	10/13/11 13:23	LMA	1111133
***Iron, Ferrous**	**1.5**	0.10	mg/L	5	SM 3500-Fe B 20th	10/06/11 09:58	CLD	1110801
Nitrogen, Nitrate	<0.050	0.050	mg/L	1	SM 4500-NO3 F 20th	10/06/11 12:28	CAC	1111442
Sulfate	**56**	10	mg/L	2	ASTM D516-90 (02)	10/13/11 12:06	LMA	1111143

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110124**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-33s**	Sampled:	10/06/11 08:00
Lab Sample ID:	**1110124-01**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**94**	1.0	mg/L	1	SM 4500-Cl E 20th	10/15/11 11:02	LMA	1111255
***Iron, Ferrous**	**0.57**	0.040	mg/L	2	SM 3500-Fe B 20th	10/07/11 09:16	CLD	1110872
***Nitrogen, Nitrate**	**2.9**	0.50	mg/L	10	SM 4500-NO3 F 20th	10/07/11 15:35	CAC	1111462
Sulfate	**18**	5.0	mg/L	1	ASTM D516-90 (02)	10/15/11 11:04	LMA	1111252

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110124**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-32s**	Sampled:	10/06/11 09:00
Lab Sample ID:	**1110124-02**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**68**	1.0	mg/L	1	SM 4500-Cl E 20th	10/15/11 11:02	LMA	1111255
***Iron, Ferrous**	**0.039**	0.020	mg/L	1	SM 3500-Fe B 20th	10/07/11 09:16	CLD	1110872
Nitrogen, Nitrate	**3.3**	0.25	mg/L	5	SM 4500-NO3 F 20th	10/07/11 15:41	CAC	1111462
Sulfate	**39**	10	mg/L	2	ASTM D516-90 (02)	10/15/11 13:02	LMA	1111252

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110124**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-34s**	Sampled:	10/06/11 09:50
Lab Sample ID:	**1110124-03**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**46**	1.0	mg/L	1	SM 4500-Cl E 20th	10/15/11 11:02	LMA	1111255
***Iron, Ferrous**	**0.14**	0.020	mg/L	1	SM 3500-Fe B 20th	10/07/11 09:17	CLD	1110872
Nitrogen, Nitrate	**1.4**	0.25	mg/L	5	SM 4500-NO3 F 20th	10/07/11 15:42	CAC	1111462
Sulfate	**13**	5.0	mg/L	1	ASTM D516-90 (02)	10/15/11 11:48	LMA	1111252

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110124**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-3s**	Sampled:	10/06/11 10:58
Lab Sample ID:	**1110124-04**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**210**	5.0	mg/L	5	SM 4500-Cl E 20th	10/15/11 12:53	LMA	1111255
***Iron, Ferrous**	**0.32**	0.020	mg/L	1	SM 3500-Fe B 20th	10/07/11 09:17	CLD	1110872
Nitrogen, Nitrate	**1.0**	0.25	mg/L	5	SM 4500-NO3 F 20th	10/07/11 15:43	CAC	1111462
Sulfate	**36**	10	mg/L	2	ASTM D516-90 (02)	10/15/11 13:03	LMA	1111252

*See Statement of Data Qualifications

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110124**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-4s**	Sampled:	10/06/11 11:39
Lab Sample ID:	**1110124-05**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**76**	1.0	mg/L	1	SM 4500-Cl E 20th	10/15/11 11:02	LMA	1111255
***Iron, Ferrous**	**0.13**	0.020	mg/L	1	SM 3500-Fe B 20th	10/07/11 09:17	CLD	1110872
Nitrogen, Nitrate	<0.050	0.050	mg/L	1	SM 4500-NO3 F 20th	10/07/11 15:28	CAC	1111462
Sulfate	**8.5**	5.0	mg/L	1	ASTM D516-90 (02)	10/15/11 11:48	LMA	1111252

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110124**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-1s**	Sampled:	10/06/11 12:14
Lab Sample ID:	**1110124-06**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**70**	1.0	mg/L	1	SM 4500-Cl E 20th	10/15/11 11:02	LMA	1111255
***Iron, Ferrous**	**0.041**	0.020	mg/L	1	SM 3500-Fe B 20th	10/07/11 09:18	CLD	1110872
Nitrogen, Nitrate	**3.1**	0.25	mg/L	5	SM 4500-NO3 F 20th	10/07/11 15:44	CAC	1111462
Sulfate	**22**	5.0	mg/L	1	ASTM D516-90 (02)	10/15/11 11:48	LMA	1111252

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1110124**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-21**	Sampled:	10/06/11 13:25
Lab Sample ID:	**1110124-07**	Sampled By:	J. Jasso
Matrix:	Water	Received:	10/07/11 08:10

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	**120**	2.0	mg/L	2	SM 4500-Cl E 20th	10/15/11 12:53	LMA	1111255
***Iron, Ferrous**	**0.087**	0.020	mg/L	1	SM 3500-Fe B 20th	10/07/11 09:19	CLD	1110872
Nitrogen, Nitrate	**0.78**	0.050	mg/L	1	SM 4500-NO3 F 20th	10/07/11 15:31	CAC	1111462
Sulfate	**41**	10	mg/L	2	ASTM D516-90 (02)	10/15/11 13:03	LMA	1111252

*See Statement of Data Qualifications

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TRIMATRIX LABORATORIES

QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Analyte: Chloride/SM 4500-Cl E 20th									
QC Batch: 1111133 (General Inorganic Prep)							Analyzed: 10/13/2011		By: LMA
Method Blank			<1.0	mg/L					1.0
Laboratory Control Sample		50.0	**47.8**	mg/L	96	90-106		20	1.0
1110099-03 [MW-27s]									
Matrix Spike	209	50.0	**257**	mg/L	96	72-123		20	5.0
Matrix Spike Duplicate	209	50.0	**257**	mg/L	96	72-123	0.1	20	5.0
QC Batch: 1111255 (General Inorganic Prep)							Analyzed: 10/15/2011		By: LMA
Method Blank			<1.0	mg/L					1.0
Laboratory Control Sample		50.0	**51.3**	mg/L	103	90-106		20	1.0
1110124-01 [MW-33s]									
Matrix Spike	93.6	50.0	**139**	mg/L	90	72-123		20	2.0
Matrix Spike Duplicate	93.6	50.0	**141**	mg/L	95	72-123	2	20	2.0
Analyte: Iron, Ferrous/SM 3500-Fe B 20th									
QC Batch: 1110747 (Method-Specific Preparation)							Analyzed: 10/05/2011		By: CLD
Method Blank			<0.020	mg/L					0.020
Laboratory Control Sample		0.320	**0.328**	mg/L	102	80-120		20	0.020
1110050-01 [MW-17s]									
Matrix Spike	0.0616	0.320	**0.396**	mg/L	104	68-131		20	0.020
Matrix Spike Duplicate	0.0616	0.320	**0.394**	mg/L	104	68-131	0.5	20	0.020
QC Batch: 1110801 (Method-Specific Preparation)							Analyzed: 10/06/2011		By: CLD
Method Blank			<0.020	mg/L					0.020
Laboratory Control Sample		0.320	**0.309**	mg/L	97	80-120		20	0.020
1110099-03 [MW-27s]									
Matrix Spike	0.0826	0.320	**0.390**	mg/L	96	68-131		20	0.020
Matrix Spike Duplicate	0.0826	0.320	**0.425**	mg/L	107	68-131	8	20	0.020
QC Batch: 1110872 (Method-Specific Preparation)							Analyzed: 10/07/2011		By: CLD
Method Blank			<0.020	mg/L					0.020
Laboratory Control Sample		0.320	**0.312**	mg/L	98	80-120		20	0.020

Continued on next page

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QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods (Continued)

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Analyte: Iron, Ferrous/SM 3500-Fe B 20th (Continued)									
QC Batch: 1110872 (Continued) (Method-Specific Preparation)							Analyzed: 10/07/2011		By: CLD
1110124-06 [MW-1s]									
Matrix Spike	0.0410	0.320	**0.360**	mg/L	100	68-131		20	0.020
Matrix Spike Duplicate	0.0410	0.320	**0.355**	mg/L	98	68-131	1	20	0.020
Analyte: Nitrogen, Nitrate/SM 4500-NO3 F 20th									
QC Batch: 1111172 (General Inorganic Prep)							Analyzed: 10/05/2011		By: CAC
Method Blank			<0.050	mg/L					0.050
Laboratory Control Sample		0.500	**0.509**	mg/L	102	90-110		20	0.050
1110050-01 [MW-17s]									
Matrix Spike	0.0505	0.500	**0.512**	mg/L	92	90-110		20	0.050
Matrix Spike Duplicate	0.0505	0.500	**0.531**	mg/L	96	90-110	4	20	0.050
QC Batch: 1111442 (General Inorganic Prep)							Analyzed: 10/06/2011		By: CAC
Method Blank			<0.050	mg/L					0.050
Laboratory Control Sample		0.500	**0.510**	mg/L	102	90-110		20	0.050
1110099-03 [MW-27s]									
Matrix Spike	1.44	5.00	**6.23**	mg/L	96	90-110		20	0.50
Matrix Spike Duplicate	1.44	5.00	**5.98**	mg/L	91	90-110	4	20	0.50
QC Batch: 1111462 (General Inorganic Prep)							Analyzed: 10/07/2011		By: CAC
Method Blank			<0.050	mg/L					0.050
Laboratory Control Sample		0.500	**0.468**	mg/L	94	90-110		20	0.050
1110124-01 [MW-33s]									
Matrix Spike	2.88	5.00	**6.66**	mg/L	**76**	90-110		20	0.50
Matrix Spike Duplicate	2.88	5.00	**7.43**	mg/L	91	90-110	11	20	0.50
Analyte: Sulfate/ASTM D516-90 (02)									
QC Batch: 1111143 (General Inorganic Prep)							Analyzed: 10/13/2011		By: LMA
Method Blank			<1.0	mg/L					1.0
Laboratory Control Sample		20.0	**20.3**	mg/L	102	88-116		20	1.0
1110099-03 [MW-27s]									
Matrix Spike	53.7	20.0	**76.3**	mg/L	113	55-151		20	5.0

Continued on next page

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QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods (Continued)

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Analyte: Sulfate/ASTM D516-90 (02) (Continued)									
QC Batch: 1111143 (Continued) (General Inorganic Prep)							Analyzed: 10/13/2011		By: LMA
1110099-03 [MW-27s]									
Matrix Spike Duplicate	53.7	20.0	**73.2**	mg/L	97	55-151	4	20	5.0
QC Batch: 1111252 (General Inorganic Prep)							Analyzed: 10/15/2011		By: LMA
Method Blank			<1.0	mg/L					1.0
Laboratory Control Sample		20.0	**19.8**	mg/L	99	88-116		20	1.0
1110124-01 [MW-33s]									
Matrix Spike	18.2	20.0	**37.2**	mg/L	95	55-151		20	2.0
Matrix Spike Duplicate	18.2	20.0	**39.6**	mg/L	107	55-151	6	20	2.0

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STATEMENT OF DATA QUALIFICATIONS

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Qualification: The MS or MSD recovery, but not both, was outside the control limit. The RPD is within the control limit. The unspiked sample result is not qualified.

Analysis: SM 4500-NO3 F 20th

Sample/Analyte:			
	1110124-01	MW-33s	Nitrogen, Nitrate

Qualification: Ferrous iron is unstable and easily changes to the ferric form in solutions in contact with air. Determination should be done in the field at the time of collection. Because analysis was performed in the lab, the reported value may not be representative.

Analysis: SM 3500-Fe B 20th

Sample/Analyte:			
	1110050-01	MW-17s	Iron, Ferrous
	1110050-02	MW-24s	Iron, Ferrous
	1110050-03	MW-24d	Iron, Ferrous
	1110050-04	MW-10s	Iron, Ferrous
	1110099-01	MW-14d	Iron, Ferrous
	1110099-02	Dup-01	Iron, Ferrous
	1110099-03	MW-27s	Iron, Ferrous
	1110099-04	MW-27d	Iron, Ferrous
	1110099-05	MW-18s	Iron, Ferrous
	1110099-06	MW-19d	Iron, Ferrous
	1110099-07	Dup-02	Iron, Ferrous
	1110099-08	MW-19s	Iron, Ferrous
	1110099-09	MW-6s	Iron, Ferrous
	1110099-10	MW-23	Iron, Ferrous
	1110124-01	MW-33s	Iron, Ferrous
	1110124-02	MW-32s	Iron, Ferrous
	1110124-03	MW-34s	Iron, Ferrous
	1110124-04	MW-3s	Iron, Ferrous
	1110124-05	MW-4s	Iron, Ferrous
	1110124-06	MW-1s	Iron, Ferrous
	1110124-07	MW-21	Iron, Ferrous

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TRIMATRIX LABORATORIES

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Chain of Custody Record

COC No. 137265

Pg. 1 of ___

For Lab Use Only

Cart: 3

VOA Rack/Tray: 214 White

Receipt Log No.: 43-1

Project Chemist:

Work Order No.: 1110050

Client Name: TRC

Address: 3754 Ranchero Drive

City, State Zip: Ann Arbor MI 48108

Phone/Fax: 734-971-7080 734-971-9022

Email:

Project Name: T.P.C

Client Project No. / P.O. No.: 60430.0000.0000

Invoice To: ☐ Client ☐ Other (comments)

Contact/Report To: Stacy Mote

Analyses Requested

	VOC 8260	Iron FE	Chloride	Nitrate	Sulfate					
	D	M	A	A	A					

PRESERVATIVES
- A NONE pH~7
- B HNO_3 pH<2
- C H_2SO_4 pH<2
- D 1+1 HCl pH<2
- E NaOH pH>12
- F ZnAc/NaOH pH>9
- G MeOH
- H Other (note below)

Container Type (corresponds to Container Packing List)

Number of Containers Submitted

Schedule	Matrix Code	Sample Number		Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	VOC 8260	Iron FE	Chloride	Nitrate	Sulfate			Total	Sample Comments
06		01	1	MW-17s		10/4/11	1051		X	GW	+	+	+	+	+			4	
			2	WL-01			1103		+	SW	+							2	
			3	MW-22			1208		+	GW	+							2	
			4	MW-31			1314		+	X	+							2	
			5	MW-31 MS+MSD			1314		+	+	+							4	
			6	E.B. 1			1346		+	DI	+							2	
06		02	7	MW-24s			1434		+	GW	+	+	+	+	+			4	
06		03	8	MW-24D			1529		+	+	+	+	+	+	+			4	
06		04	9	MW-10s			1650		+	+	+	+	+	+	+			4	
			10	Trip Blank					+	DI	+							X2	

Sampled By (print): Javier Jasso

Sampler's Signature: [signature]

Company: TRC

How Shipped? Hand ___ Carrier FedEx

Tracking No.

Comments

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
[signature]	10/4/11	1745						

1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						[signature]	10/5/11	0830

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

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TRIMATRIX LABORATORIES

TRIMATRIX LABORATORIES

SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: TRC
Work Order #: 1110050
New / Add To
Receipt Record Page/Line #: 43-1
Project Chemist | Sample #s

Recorded by (initials/date): LR 10/5/11

☑ Cooler ☐ Box ☐ Other ____ | Qty Received: 1

Thermometer Used: ☑ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#____) ☐ See Additional Cooler Information Form

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via
0344	0836	☑ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / (Top) / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☑ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container

Cooler #	Recorded °C	Correction Factor °C	Actual °C
0344	Temp Blank:		
	TB location: Representative / Not Representative		
	1 3.3	–	3.3
	2 2.7	–	2.7
	3 3.8	–	3.8
	Average °C		3.3
	☐ Cooler ID on COC?		
	☑ VOC Trip Blank received? x2		
Cooler #	Temp Blank:		
	TB location: Representative / Not Representative		
	1		
	2		
	3		
	Average °C		
	☐ Cooler ID on COC?		
	☐ VOC Trip Blank received?		
Cooler #	Temp Blank:		
	TB location: Representative / Not Representative		
	1		
	2		
	3		
	Average °C		
	☐ Cooler ID on COC?		
	☐ VOC Trip Blank received?		
Cooler #	Temp Blank:		
	TB location: Representative / Not Representative		
	1		
	2		
	3		
	Average °C		
	☐ Cooler ID on COC?		
	☐ VOC Trip Blank received?		

If any shaded areas checked, complete Sample Receiving Non-Conformance Form

Paperwork Received

☐ No COC Received

N/A	Yes	No	
	☑	☐	Chain of Custody record(s)?
	☐		If No, COC Initiated By ____
	☑		Rec'd for Lab Signed/Date/Time?
☐	☑		Shipping document?
☑	☐		Other ____

COC ID #s

☑ TriMatrix 137265

☐ Other (Name or ID#) ____

Check COC for Accuracy

☐ No analysis requested

Yes	No	
☑	■	Sample ID matches COC?
☑	■	Sample Date and Time matches COC?
☑		Container type completed on COC?
☑	■	All container types indicated are received?

Sample Condition Summary

☐ Non-TriMatrix containers, see Notes

N/A	Yes	No	
	■	☑	Broken containers/lids?
	■	☑	Missing or Incomplete labels?
	■	☑	Illegible information on labels?
	■	☑	Low volume received?
	■	☑	Inappropriate containers received?
☐	■	☑	VOC vials / TOX containers have headspace?
☐	■	☑	Extra sample locations / containers not listed on COC?

Check Sample Preservation

N/A	Yes	No	
	☐	■	Average sample temperature ≤6° C?
☐	☑		Completed Sample Preservation Verification Form?
☐	☑	■	Samples preserved correctly?
☑	☐		If "No", added orange tag?
☑	☐		Received pre-preserved VOC soils?

☐ MeOH ☐ Na_2SO_4

Check for Short Hold-Time Prep/Analyses

☐ Bacteriological
☐ Air Bags
☐ EnCores / Methanol Pre-Preserved
☐ Formaldehyde/Aldehyde
☑ Green-tagged containers
☐ Yellow/White-tagged 1L ambers (SV Prep-Lab)

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S)
☐ NONE RECEIVED
☑ RECEIVED, COCs TO LAB(S)

Notes

☑ Trip Blank received ☐ Trip Blank not listed on COC
☐ No COC received, Proj. Chemist reviewed (Init/Date) ____
☐ No analysis requested, Proj. Chemist completed (Init/Date) ____

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
10/5/11 0830	10/5/11 0850	(Yes) / No

Log In Forms - Receiving.Log-In_Checklist

revision: 3.0

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TRIMATRIX LABORATORIES

SAMPLE PRESERVATION VERIFICATION FORM

page ____ of ____

Client	TRC	Work Order #	1110050
Receipt Log #	43-1	Completed By (initials/date)	LR 10-5-11
		Project Chemist	

COC ID # 137265

Adjusted by:_____ Date:_____

DO NOT ADJUST pH FOR THESE CONTAINER TYPES

Container Type	5	4	13	23	3	6	15	
Tag Color	Lt. Blue	Blue	Brown	Lt. Blue	Green	Red	Red Stripe	
Preservative	NaOH	H_2SO_4	H_2SO_4		None	HNO_3	HNO_3	
Expected pH	>12	<2	<2	< 2	6-8	<2	<2	
COC Line #1				✓	✓			
COC Line #2								
COC Line #3								
COC Line #4								
COC Line #5								
COC Line #6								
COC Line #7				✓	✓			
COC Line #8				✓	✓			
COC Line #9				✓	✓			
COC Line #10								

Comments

Ph Strip Lot # HC111148

Aqueous Samples: For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box, and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the sample to achieve the correct pH. Add up to, but do not exceed 2x the volume initially added at container prep (see table below for initial volumes used). Add orange pH tag to sample container and record information requested. Record adjusted pH on this form. Do not adjust pH for container types 3, 6, and 15.

COC ID #

Adjusted by:_____ Date:_____

DO NOT ADJUST pH FOR THESE CONTAINER TYPES

Container Type	5	4	13		3	6	15	
Tag Color	Lt. Blue	Blue	Brown		Green	Red	Red Stripe	
Preservative	NaOH	H_2SO_4	H_2SO_4		None	HNO_3	HNO_3	
Expected pH	>12	<2	<2		~7	<2	<2	
COC Line #1								
COC Line #2								
COC Line #3								
COC Line #4								
COC Line #5								
COC Line #6								
COC Line #7								
COC Line #8								
COC Line #9								
COC Line #10								

Comments

Container Size (mL)	Original Vol. of Preservative (mL)
Container Type 5	NaOH
500	2.5
1000	5.0
Container Type 4	H_2SO_4
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H_2SO_4
500	2.5

Log In Forms -- Sample_Preservation_Checklist

version: 2.0

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Chain of Custody Record

COC No. 137266

Pg. 1 of 4

For Lab Use Only
Cart: 12
VOA Rack/Tray:
Receipt Log No.: 45-5
Project Chemist:
Work Order No.: 1110099

Client Name: TRC
Address: 3754 Ranchero Drive
City, State Zip: Ann Arbor MI 48108
Phone/Fax: 734-791-7080 734-971-9033
Email:

Project Name: T.P.C
Client Project No. / P.O. No.: 0043040000.0000
Invoice To: ☑ Client ☐ Other (comments)
Contact/Report To: Stacy Mote

Analyses Requested

Container Type (corresponds to Container Packing List): V D A A D

TOC 8260 Iron II Chloride nitrate sulfate

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Schedule	Matrix Code	Sample Number	Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
06		01	1 MW-14D		10/5/11	0954		X	GW	X X X X X	2	
1		02	2 DUP-01			—		X	X	X X X X X	2	
07		03	3 MW-27s			1026		X	X	X X X X X	2	
			4 MW-27s MS&MSD			1026		X	X	X X X X X	6	
06		04	5 MW-27D			1109		X	X	X X X X X	2	
		05	6 MW-18s			1259		X	X	X X X X X	2	
		06	7 MW-19D			1444		X	X	X X X X X	2	
		07	8 DUP-02			—		X	X	X X X X X	2	
		08	9 MW-19s			1525		X	X	X X X X X	2	
		09	10 MW-6s			1630		X	X	X X X X X	2	

Sampled By (print): JAVIER JASO
Sampler's Signature: [signature]
Company: TRC

How Shipped? Hand ___ Carrier Fedex
Tracking No.

Comments

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
[signature]	10/5/11	1920						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						[signature]	10/6/11	0835

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Chain of Custody Record

COC No. 137980

Pg. 3 of 4

For Lab Use Only

Cart: 12

VOA Rack/Tray:

Receipt Log No.: 45-5

Project Chemist:

Work Order No.: 1110099

Client Name: TRC

Address: 3754 Ranchero Drive

City, State Zip: Ann Arbor MI 48108

Phone/Fax: 734-971-7080 734-971-9022

Email:

Project Name: T.P.C

Client Project No. / P.O. No.: 004704.0000.0000

Invoice To: ☑ Client ☐ Other (comments)

Contact/Report To: Stacy Metz

Analyses Requested

Container Type (corresponds to Container Packing List)	DAAA					
	Iron II	Chloride	Nitrate	Sulfate		

PRESERVATIVES
- A NONE pH~7
- B HNO_3 pH<2
- C H_2SO_4 pH<2
- D 1+1 HCl pH<2
- E NaOH pH>12
- F ZnAc/NaOH pH>9
- G MeOH
- H Other (note below)

	Schedule	Matrix Code	Sample Number	Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
1	06		10	MW-23		10/5/11	1704		+	GW	+ + + +	2	
2				Trip Blank						DW	+	1	
3													
4													
5													
6													
7													
8													
9													
10													

Sampled By (print): Javier Jasso

Sampler's Signature: [signature]

Company: TRC

How Shipped? Hand ___ Carrier Fedex

Tracking No.

Comments

	Relinquished By	Date	Time	Received By	Date	Time
1	[signature]	10/5/11	1920			
2						
3				[signature]	10/6/11	0835

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TRIMATRIX LABORATORIES

TRIMATRIX LABORATORIES

SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: TRC
Work Order #: 1110099
Receipt Record Page/Line #: 45-5
New / Add To
Project Chemist
Sample #s

Recorded by (initials/date): LR 10/6/11

☒ Cooler ☐ Box ☐ Other ____ — Qty Received: 1

Thermometer Used: ☒ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#____) ☐ See Additional Cooler Information Form

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
—	0911	☒ None	Dispersed / Top / Middle / Bottom	☒ Loose Ice / Avg 2-3 containers	☒ Temperature Blank (TB)	Temp Blank: —		5.1		
		☐ Present / Intact		☐ Bagged Ice / Avg 2-3 containers	☐ 1 Container	TB location: Representative / Not Representative				
		☐ Present / Not Intact		☐ Blue Ice / Avg 2-3 containers		1 5.5	—	5.5		
				■ None / Avg 2-3 containers		2 5.4	—	5.4		
						3 5.3	—	5.3		
							Average °C	5.4	☐	☐

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers	☐ Temperature Blank (TB)	Temp Blank:				
		☐ Present / Intact		☐ Bagged Ice / Avg 2-3 containers	☐ 1 Container	TB location: Representative / Not Representative				
		☐ Present / Not Intact		☐ Blue Ice / Avg 2-3 containers		1				
				■ None / Avg 2-3 containers		2				
						3				
							Average °C		☐	☐

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers	☐ Temperature Blank (TB)	Temp Blank:				
		☐ Present / Intact		☐ Bagged Ice / Avg 2-3 containers	☐ 1 Container	TB location: Representative / Not Representative				
		☐ Present / Not Intact		☐ Blue Ice / Avg 2-3 containers		1				
				■ None / Avg 2-3 containers		2				
						3				
							Average °C		☐	☐

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers	☐ Temperature Blank (TB)	Temp Blank:				
		☐ Present / Intact		☐ Bagged Ice / Avg 2-3 containers	☐ 1 Container	TB location: Representative / Not Representative				
		☐ Present / Not Intact		☐ Blue Ice / Avg 2-3 containers		1				
				■ None / Avg 2-3 containers		2				
						3				
							Average °C		☐	☐

If any shaded areas checked, complete Sample Receiving Non-Conformance Form

Paperwork Received

☐ No COC Received

N/A	Yes	No	
	☒	☐	Chain of Custody record(s)?
	☐		If No, COC Initiated By ____
	☒		Rec'd for Lab Signed/Date/Time?
☐	☒		Shipping document?
☒	☐		Other ____

COC ID #s

☒ TriMatrix 137266, 137980

☐ Other (Name or ID#) ____

Check COC for Accuracy

☐ No analysis requested

Yes	No	
☒	■	Sample ID matches COC?
☒	■	Sample Date and Time matches COC?
☒		Container type completed on COC?
☒	■	All container types indicated are received?

Sample Condition Summary

☐ Non-TriMatrix containers, see Notes

N/A	Yes	No	
	■	☒	Broken containers/lids?
	■	☒	Missing or incomplete labels?
	■	☒	Illegible information on labels?
	■	☒	Low volume received?
	■	☒	Inappropriate containers received?
☒	■	☐	VOC vials / TOX containers have headspace?
☒	■	☐	Extra sample locations / containers not listed on COC?

Check Sample Preservation

N/A	Yes	No	
	☒	■	Average sample temperature ≤6° C?
☐	☒		Completed Sample Preservation Verification Form?
☐	☒	■	Samples preserved correctly?
☒	☐		If "No", added orange tag?
☒	☐		Received pre-preserved VOC soils?

☐ MeOH ☐ Na_2SO_4

Check for Short Hold-Time Prep/Analyses

- ☐ Bacteriological
- ☐ Air Bags
- ☐ EnCores / Methanol Pre-Preserved
- ☐ Formaldehyde/Aldehyde
- ☒ Green-tagged containers
- ☐ Yellow/White-tagged 1L ambers (SV Prep-Lab)

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S)
☐ NONE RECEIVED
☒ RECEIVED, COCs TO LAB(S)

Notes

- ☐ Trip Blank received ☐ Trip Blank not listed on COC
- ☐ No COC received, Proj. Chemist reviewed (Init/Date) ____
- ☐ No analysis requested, Proj. Chemist completed (init/Date) ____

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
10/6/11 0835	10/6/11 0923	Yes / No

Log In Forms - Receiving.Log-In_Checklist

revision: 3.0

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TRIMATRIX LABORATORIES

SAMPLE PRESERVATION VERIFICATION FORM

page ____ of ____

Client: TRC		Work Order #: 1110099
Receipt Log #: 45-5	Completed By (initials/date): LR 10/6/11	Project Chemist:

COC ID # 137264			Adjusted by: ____ Date: ____		DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
Container Type	5	4	13	23	3	6	15	
Tag Color	Lt. Blue	Blue	Brown	White	Green	Red	Red Stripe	
Preservative	NaOH	H_2SO_4	H_2SO_4	HCL	None	HNO_3	HNO_3	
Expected pH	>12	<2	<2	<2	6-8	<2	<2	
COC Line #1				✓	✓			
COC Line #2				✓	✓			
COC Line #3				✓	✓			
COC Line #4				✓	✓			
COC Line #5				✓	✓			
COC Line #6				✓	✓			
COC Line #7				✓	✓			
COC Line #8				✓	✓			
COC Line #9				✓	✓			
COC Line #10				✓	✓			

Comments

COC ID # 137980			Adjusted by: ____ Date: ____		DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
Container Type	5	4	13	23	3	6	15	
Tag Color	Lt. Blue	Blue	Brown	White	Green	Red	Red Stripe	
Preservative	NaOH	H_2SO_4	H_2SO_4	HCL	None	HNO_3	HNO_3	
Expected pH	>12	<2	<2	<2	~7	<2	<2	
COC Line #1				✓	✓			
COC Line #2								
COC Line #3								
COC Line #4								
COC Line #5								
COC Line #6								
COC Line #7								
COC Line #8								
COC Line #9								
COC Line #10								

Comments

Ph Strip Lot #	
☑	HC111148
☐	

Aqueous Samples: For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box, and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the sample to achieve the correct pH. Add up to, but do not exceed 2x the volume initially added at container prep (see table below for initial volumes used). Add orange pH tag to sample container and record information requested. Record adjusted pH on this form. Do not adjust pH for container types 3, 6, and 15.

Container Size (mL)	Original Vol. of Preservative (mL)
Container Type 5	NaOH
500	2.5
1000	5.0
Container Type 4	H_2SO_4
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H_2SO_4
500	2.5

Log In Forms -- Sample_Preservation_Checklist

version: 2.0

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Chain of Custody Record

COC No. 137981

Pg. 1 of 2

For Lab Use Only
Cart: 12
VOA Rack/Tray:
Receipt Log No.: 47-1
Project Chemist:
Work Order No.: 1110124

Client Name: TRC
Address: 3754 Ranchero Drive
City, State Zip: Ann Arbor MI 48108
Phone/Fax: 734-971 7080 734-971 8080
Email:

Project Name: T.P.C
Client Project No. / P.O. No.: 004304.0000.0000
Invoice To: ☒ Client ☐ Other (comments)
Contact/Report To: Stacy Mate

Analyses Requested

Container Type (corresponds to Container Packing List): D A A N

Analyses: Iron II, Chloride, Nitrate, Sulfate

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Schedule	Matrix Code	Sample Number	Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
56		01	MW 33s		10/6/11	0800		+	GW	+ + + +	2	
		02	MW 32s			0900		+		+ + + +	2	
		03	MW 34s			0950		+		+ + + +	2	
		04	MW 3s			1058		+		+ + + +	2	
		05	MW 4s			1139		+		+ + + +	2	
		06	MW 1s			1214		+		+ + + +	2	
		07	MW 21			1325		+		+ + + +	2	
		8										
		9										
		10										

Sampled By (print): Javier Jasso
Sampler's Signature: [signature]
Company: TRC

How Shipped? Hand ___ Carrier: Fedex
Tracking No.:

Comments:

1. Relinquished By: [signature] Date: 10/6/11 Time: 1440
1. Received By: Date: Time:
2. Relinquished By: Date: Time:
2. Received By: Date: Time:
3. Relinquished By: Date: Time:
3. Received For Lab By: [signature] Date: 10/7/11 Time: 0810

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TRIMATRIX LABORATORIES

SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: TRC
Receipt Record Page/Line #: 47-1
Work Order #: 1110124
New / Add To
Project Chemist
Sample #s

Recorded by (initials/date): LR 10/7/11

☒ Cooler ☐ Box ☐ Other
Qty Received: 1
Thermometer Used: ☒ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#_____)
☐ See Additional Cooler Information Form

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
1286	0836	☒ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / (Top) / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☒ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container	Temp Blank: –		4.5	☐	☐
						TB location: Representative / Not Representative				
						1: 5.0	–	5.0		
						2: 4.9	–	4.9		
						3: 3.8	–	3.8		
						Average °C		4.6		

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container	Temp Blank:			☐	☐
						TB location: Representative / Not Representative				
						1				
						2				
						3				
						Average °C				

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container	Temp Blank:			☐	☐
						TB location: Representative / Not Representative				
						1				
						2				
						3				
						Average °C				

Cooler #	Time	Custody Seals	Coolant Location	Coolant/Temperature Taken Via	Alternate Temperature Taken Via	Recorded °C	Correction Factor °C	Actual °C	Cooler ID on COC?	VOC Trip Blank received?
		☐ None; ☐ Present / Intact; ☐ Present / Not Intact	Dispersed / Top / Middle / Bottom	☐ Loose Ice / Avg 2-3 containers; ☐ Bagged Ice / Avg 2-3 containers; ☐ Blue Ice / Avg 2-3 containers; ■ None / Avg 2-3 containers	☐ Temperature Blank (TB); ☐ 1 Container	Temp Blank:			☐	☐
						TB location: Representative / Not Representative				
						1				
						2				
						3				
						Average °C				

If any shaded areas checked, complete Sample Receiving Non-Conformance Form

Paperwork Received

☐ No COC Received

N/A	Yes	No	
	☒	☐	Chain of Custody record(s)?
	☐		If No, COC Initiated By _____
	☒		Rec'd for Lab Signed/Date/Time?
☐	☒		Shipping document?
☒	☐		Other _____

COC ID #s

☒ TriMatrix 137981,

☐ Other (Name or ID#)_____

Check COC for Accuracy

☐ No analysis requested

Yes	No	
☒	■	Sample ID matches COC?
☒	■	Sample Date and Time matches COC?
☒		Container type completed on COC?
☒	■	All container types indicated are received?

Sample Condition Summary

☐ Non-TriMatrix containers, see Notes

N/A	Yes	No	
	■	☒	Broken containers/lids?
	■	☒	Missing or incomplete labels?
	■	☒	Illegible information on labels?
	■	☒	Low volume received?
	■	☒	Inappropriate containers received?
☒	■	☐	VOC vials / TOX containers have headspace?
☒	■	☐	Extra sample locations / containers not listed on COC?

Check Sample Preservation

N/A	Yes	No	
	☒	■	Average sample temperature ≤6° C?
☐	☒		Completed Sample Preservation Verification Form?
☐	☒	■	Samples preserved correctly?
☒	☐		If "No", added orange tag?
☒	☐		Received pre-preserved VOC soils?

☐ MeOH ☐ Na_2SO_4

Check for Short Hold-Time Prep/Analyses

☐ Bacteriological
☐ Air Bags
☐ EnCores / Methanol Pre-Preserved
☐ Formaldehyde/Aldehyde
☒ Green-tagged containers
☐ Yellow/White-tagged 1L ambers (SV Prep-Lab)

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S)
☐ NONE RECEIVED
☒ RECEIVED, COCs TO LAB(S)

Notes

☐ Trip Blank received ☐ Trip Blank not listed on COC
☐ No COC received, Proj. Chemist reviewed (Init/Date) _____
☐ No analysis requested, Proj. Chemist completed (Init/Date) _____

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
10/7/11 0810	10/7/11 0846	(Yes) / No

Log In Forms - Receiving.Log-In_Checklist

revision: 3.0

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TRIMATRIX LABORATORIES

SAMPLE PRESERVATION VERIFICATION FORM

page ____ of ____

Client: TRC		Work Order #: 1110124	
Receipt Log #: 47-1	Completed By (initials/date): UR 10/7/11	Project Chemist:	

COC ID #: 137981			Adjusted by: ____ Date: ____		DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
Container Type	5	4	13	23	3	6	15	
Tag Color	Lt. Blue	Blue	Brown	White	Green	Red	Red Stripe	
Preservative	NaOH	H_2SO_4	H_2SO_4	HCl	None	HNO_3	HNO_3	
Expected pH	>12	<2	<2	<2	6-8	<2	<2	
COC Line #1				✓	✓			
COC Line #2				✓	✓			
COC Line #3				✓	✓			
COC Line #4				✓	✓			
COC Line #5				✓	✓			
COC Line #6				✓	✓			
COC Line #7				✓	✓			
COC Line #8								
COC Line #9								
COC Line #10								

Comments

COC ID #:			Adjusted by: ____ Date: ____		DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
Container Type	5	4	13		3	6	15	
Tag Color	Lt. Blue	Blue	Brown		Green	Red	Red Stripe	
Preservative	NaOH	H_2SO_4	H_2SO_4		None	HNO_3	HNO_3	
Expected pH	>12	<2	<2		~7	<2	<2	
COC Line #1								
COC Line #2								
COC Line #3								
COC Line #4								
COC Line #5								
COC Line #6								
COC Line #7								
COC Line #8								
COC Line #9								
COC Line #10								

Comments

Ph Strip Lot #

☑ HC111148

☐ ____

Aqueous Samples: For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box, and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the sample to achieve the correct pH. Add up to, but do not exceed 2x the volume initially added at container prep (see table below for initial volumes used). Add orange pH tag to sample container and record information requested. Record adjusted pH on this form. Do not adjust pH for container types 3, 6, and 15.

Container Size (mL)	Original Vol. of Preservative (mL)
Container Type 5	NaOH
500	2.5
1000	5.0
Container Type 4	H_2SO_4
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H_2SO_4
500	2.5

Log In Forms -- Sample_Preservation_Checklist

version: 2.0

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November 21, 2011

TRC Companies. - Ann Arbor Office
Attn: Ms. Stacy Metz
1540 Eisenhower Place
Ann Arbor, MI 48108

Project: Tecumseh Products

Dear Ms. Stacy Metz,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
1111184	11/09/2011	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC). Any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosures(s)

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1111184**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-23**	Sampled:	11/04/11 11:52
Lab Sample ID:	**1111184-01**	Sampled By:	Jamie Hoffman
Matrix:	Water	Received:	11/09/11 08:20
Unit:	ug/L	Prepared:	11/12/11 By: JDM
Dilution Factor:	1	Analyzed:	11/12/11 By: LEW
QC Batch:	1112946	Analytical Batch:	1K14095

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1111184**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-23**	Sampled:	11/04/11 11:52
Lab Sample ID:	**1111184-01**	Sampled By:	Jamie Hoffman
Matrix:	Water	Received:	11/09/11 08:20
Unit:	ug/L	Prepared:	11/12/11 By: JDM
Dilution Factor:	1	Analyzed:	11/12/11 By: LEW
QC Batch:	1112946	Analytical Batch:	1K14095

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1111184**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-23**	Sampled:	11/04/11 11:52
Lab Sample ID:	**1111184-01**	Sampled By:	Jamie Hoffman
Matrix:	Water	Received:	11/09/11 08:20
Unit:	ug/L	Prepared:	11/12/11 By: JDM
Dilution Factor:	1	Analyzed:	11/12/11 By: LEW
QC Batch:	1112946	Analytical Batch:	1K14095

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**11**	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	101	*88-116*
1,2-Dichloroethane-d4	102	*87-123*
Toluene-d8	101	*91-107*
4-Bromofluorobenzene	102	*84-106*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1111184**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-01**	Sampled:	11/04/11 00:00
Lab Sample ID:	**1111184-02**	Sampled By:	Jamie Hoffman
Matrix:	Water	Received:	11/09/11 08:20
Unit:	ug/L	Prepared:	11/12/11 By: JDM
Dilution Factor:	1	Analyzed:	11/12/11 By: LEW
QC Batch:	1112946	Analytical Batch:	1K14095

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1111184**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-01**	Sampled:	11/04/11 00:00
Lab Sample ID:	**1111184-02**	Sampled By:	Jamie Hoffman
Matrix:	Water	Received:	11/09/11 08:20
Unit:	ug/L	Prepared:	11/12/11 By: JDM
Dilution Factor:	1	Analyzed:	11/12/11 By: LEW
QC Batch:	1112946	Analytical Batch:	1K14095

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**TRC Companies. - Ann Arbor Office**	Work Order:	**1111184**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-01**	Sampled:	11/04/11 00:00
Lab Sample ID:	**1111184-02**	Sampled By:	Jamie Hoffman
Matrix:	Water	Received:	11/09/11 08:20
Unit:	ug/L	Prepared:	11/12/11 By: JDM
Dilution Factor:	1	Analyzed:	11/12/11 By: LEW
QC Batch:	1112946	Analytical Batch:	1K14095

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
179601-23-1	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	103	*88-116*
1,2-Dichloroethane-d4	106	*87-123*
Toluene-d8	102	*91-107*
4-Bromofluorobenzene	102	*84-106*

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TRIMATRIX LABORATORIES

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 1112946 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank Analyzed: 11/12/2011 By: LEW

Unit: ug/L Analytical Batch: 1K14095

Acetone	<20	--	20
Acrylonitrile	<2.0		2.0
Benzene	<1.0		1.0
Bromobenzene	<1.0	--	1.0
Bromochloromethane	<1.0		1.0
Bromodichloromethane	<1.0		1.0
Bromoform	<1.0		1.0
Bromomethane	<5.0		5.0
n-Butylbenzene	<1.0		1.0
sec-Butylbenzene	<1.0		1.0
tert-Butylbenzene	<1.0		1.0
Carbon Disulfide	<1.0		1.0
Carbon Tetrachloride	<1.0		1.0
Chlorobenzene	<1.0		1.0
Chloroethane	<5.0		5.0
Chloroform	<1.0		1.0
Chloromethane	<5.0		5.0
1,2-Dibromo-3-chloropropane	<5.0		5.0
Dibromochloromethane	<1.0		1.0
1,2-Dibromoethane	<1.0		1.0
Dibromomethane	<1.0		1.0
trans-1,4-Dichloro-2-butene	<1.0		1.0
1,2-Dichlorobenzene	<1.0		1.0
1,3-Dichlorobenzene	<1.0		1.0
1,4-Dichlorobenzene	<1.0		1.0
Dichlorodifluoromethane	<5.0		5.0
1,1-Dichloroethane	<1.0		1.0
1,2-Dichloroethane	<1.0		1.0
1,1-Dichloroethene	<1.0		1.0
cis-1,2-Dichloroethene	<1.0		1.0
trans-1,2-Dichloroethene	<1.0		1.0
1,2-Dichloropropane	<1.0		1.0
cis-1,3-Dichloropropene	<1.0		1.0
trans-1,3-Dichloropropene	<1.0		1.0
Ethylbenzene	<1.0		1.0
Ethyl Ether	<5.0		5.0

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

QC Batch: 1112946 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 11/12/2011 By: LEW
Unit: ug/L Analytical Batch: 1K14095

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
2-Hexanone			<5.0					5.0
Iodomethane			<1.0					1.0
Isopropylbenzene			<1.0					1.0
4-Isopropyltoluene			<5.0					5.0
Methyl tert-Butyl Ether			<5.0					5.0
Methylene Chloride			<5.0					5.0
2-Butanone (MEK)			<5.0					5.0
2-Methylnaphthalene			<5.0					5.0
4-Methyl-2-pentanone (MIBK)			<5.0			--		5.0
Naphthalene			<5.0			--		5.0
n-Propylbenzene			<1.0					1.0
Styrene			<1.0					1.0
1,1,1,2-Tetrachloroethane			<1.0					1.0
1,1,2,2-Tetrachloroethane			<1.0					1.0
Tetrachloroethene			<1.0					1.0
Tetrahydrofuran			<5.0					5.0
Toluene			<1.0					1.0
1,2,3-Trichlorobenzene			<5.0					5.0
1,2,4-Trichlorobenzene			<5.0					5.0
1,1,1-Trichloroethane			<1.0					1.0
1,1,2-Trichloroethane			<1.0					1.0
Trichloroethene			<1.0					1.0
Trichlorofluoromethane			<1.0					1.0
1,2,3-Trichloropropane			<1.0					1.0
1,2,4-Trimethylbenzene			<1.0					1.0
1,3,5-Trimethylbenzene			<1.0					1.0
Vinyl Chloride			<1.0					1.0
Xylene, Meta + Para			<2.0					2.0
Xylene, Ortho			<1.0					1.0
Surrogates:								
Dibromofluoromethane				*100*	*88-116*			
1,2-Dichloroethane-d4				*105*	*87-123*			
Toluene-d8				*99*	*91-107*			
4-Bromofluorobenzene				*104*	*84-106*			

Laboratory Control Sample Analyzed: 11/12/2011 By: LEW
Unit: ug/L Analytical Batch: 1K14095

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Benzene		40.0	**41.6**	104	84-119	--	20	1.0

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

QC Batch: 1112946 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued) Analyzed: 11/12/2011 By: LEW
Unit: ug/L Analytical Batch: 1K14095

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Chlorobenzene		40.0	**39.0**	98	84-118	--	20	1.0
1,1-Dichloroethene		40.0	**39.8**	99	77-123	--	20	1.0
Toluene		40.0	**39.9**	100	85-118	--	20	1.0
Trichloroethene		40.0	**37.4**	94	82-119	--	20	1.0
Surrogates:								
Dibromofluoromethane				*102*	*88-116*			
1,2-Dichloroethane-d4				*105*	*87-123*			
Toluene-d8				*102*	*91-107*			
4-Bromofluorobenzene				*106*	*84-106*			

Laboratory Control Sample Duplicate Analyzed: 11/12/2011 By: LEW
Unit: ug/L Analytical Batch: 1K14095

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Benzene		40.0	**41.1**	103	84-119	1	20	1.0
Chlorobenzene		40.0	**37.2**	93	84-118	5	20	1.0
1,1-Dichloroethene		40.0	**40.0**	100	77-123	0.6	20	1.0
Toluene		40.0	**40.0**	100	85-118	0.3	20	1.0
Trichloroethene		40.0	**38.4**	96	82-119	3	20	1.0
Surrogates:								
Dibromofluoromethane				*102*	*88-116*			
1,2-Dichloroethane-d4				*105*	*87-123*			
Toluene-d8				*103*	*91-107*			
4-Bromofluorobenzene				*103*	*84-106*			

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Individual sample results relate only to the sample tested.
5560 Corporate Exchange Court SE ♦ Grand Rapids, MI 49512 ♦ 616.975.4500 ♦ Fax 616.942.7463 ♦ www.trimatrixlabs.com

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program.
No Qualifications required.

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TRIMATRIX LABORATORIES

5560 Corporate Exchange Court SE
Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 139320

Pg. 1 of 1

For Lab Use Only
Cart: –
VOA Rack/Tray: 515 Red
Receipt Log No.: 3-4
Project Chemist:
Work Order No.: 1111184

Client Name: TRC
Address: 1540 EISENHOWER PLACE
City, State Zip: ANN ARBOR, MI 48108
Phone/Fax: 734.971.7080
Email:

Project Name: TECUMSEH PRODUCTS
Client Project No. / P.O. No.: 35702
Invoice To: TRC ☐ Client ☐ Other (comments)
Contact/Report To: STACY METZ

Analyses Requested: VOCs 8260

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Schedule	Matrix Code	Sample Number		Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) / Number of Containers Submitted	Total	Sample Comments
01		01	1	MW-23	TM2222	11.4.11	1152		X	GW	2	2	
03		02	2	TB-01							1	1	
			3										
			4										
			5										
			6										
			7										
			8										
			9										
			10										

Sampled By (print): JAMIE HOFFMAN
Sampler's Signature: Jamie Hoff
Company:

How Shipped? Hand ___ Carrier X
Tracking No.: FEDEX 797714801613

1. Relinquished By: Jamie Hoff Date 11/8/11 Time 1445
1. Received By: Date Time

Comments: LEVEL IV QC REQUIRED

2. Relinquished By: Date Time
2. Received By: Date Time
3. Relinquished By: Date Time
3. Received For Lab By: Date 11/9/11 Time 0820

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: TRC	Work Order #: 1111184
Receipt Record Page/Line #: 3-4	New / Add To
	Project Chemist / Sample #s

Recorded by (initials/date)		Qty Received		
Lk 11/9/11	☑ Cooler ☐ Box ☐ Other	1	Thermometer Used: ☑ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#)	☐ See Additional Cooler Information Form

Cooler #	Time	Cooler #	Time	Cooler #	Time	Cooler #	Time
2222	0923						

Cooler 1

Custody Seals: ☑ None ☐ Present / Intact ☐ Present / Not Intact

Coolant Location: Dispersed / (Top) / Middle / Bottom

Coolant/Temperature Taken Via: ☐ Loose Ice / Avg 2-3 containers ☑ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ■ None / Avg 2-3 containers

Alternate Temperature Taken Via: ☐ Temperature Blank (TB) ☐ 1 Container

Recorded °C	Correction Factor °C	Actual °C
Temp Blank:		
TB location: Representative / Not Representative		
1 6.9	–	6.9
2 6.8	–	6.8
3 5.4	–	5.4
	Average °C	6.4

☑ Cooler ID on COC? ☑ VOC Trip Blank received?

Cooler 2

Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact

Coolant Location: Dispersed / Top / Middle / Bottom

Coolant/Temperature Taken Via: ☐ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ■ None / Avg 2-3 containers

Alternate Temperature Taken Via: ☐ Temperature Blank (TB) ☐ 1 Container

Recorded °C	Correction Factor °C	Actual °C
Temp Blank:		
TB location: Representative / Not Representative		
1		
2		
3		
	Average °C	

☐ Cooler ID on COC? ☐ VOC Trip Blank received?

Cooler 3

Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact

Coolant Location: Dispersed / Top / Middle / Bottom

Coolant/Temperature Taken Via: ☐ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ■ None / Avg 2-3 containers

Alternate Temperature Taken Via: ☐ Temperature Blank (TB) ☐ 1 Container

Recorded °C	Correction Factor °C	Actual °C
Temp Blank:		
TB location: Representative / Not Representative		
1		
2		
3		
	Average °C	

☐ Cooler ID on COC? ☐ VOC Trip Blank received?

Cooler 4

Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact

Coolant Location: Dispersed / Top / Middle / Bottom

Coolant/Temperature Taken Via: ☐ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ■ None / Avg 2-3 containers

Alternate Temperature Taken Via: ☐ Temperature Blank (TB) ☐ 1 Container

Recorded °C	Correction Factor °C	Actual °C
Temp Blank:		
TB location: Representative / Not Representative		
1		
2		
3		
	Average °C	

☐ Cooler ID on COC? ☐ VOC Trip Blank received?

If any shaded areas checked, complete Sample Receiving Non-Conformance Form

Paperwork Received

☐ No COC Received

N/A	Yes	No	
	☑	☐	Chain of Custody record(s)?
	☐		If No, COC Initiated By _____
	☑		Rec'd for Lab Signed/Date/Time?
☐	☑		Shipping document?
☑	☐		Other _____

COC ID #s

☑ TriMatrix

☐ Other (Name or ID#) _____

Check COC for Accuracy

☐ No analysis requested

Yes	No	
☑	■	Sample ID matches COC?
☑	■	Sample Date and Time matches COC?
☑		Container type completed on COC?
☑	■	All container types indicated are received?

Sample Condition Summary

☐ Non-TriMatrix containers, see Notes

N/A	Yes	No	
	■	☑	Broken containers/lids?
	■	☑	Missing or incomplete labels?
	■	☑	Illegible information on labels?
	■	☑	Low volume received?
	■	☑	Inappropriate containers received?
☐	■	☑	VOC vials / TOX containers have headspace?
☐	■	☑	Extra sample locations / containers not listed on COC?

Check Sample Preservation

N/A	Yes	No	
	☐	☑	Average sample temperature ≤6° C?
☑	☐		Completed Sample Preservation Verification Form?
☑	☐	■	Samples preserved correctly?
☑	☐		If "No", added orange tag?
☑	☐		Received pre-preserved VOC soils?

☐ MeOH ☐ Na_2SO_4

Check for Short Hold-Time Prep/Analyses

☐ Bacteriological
☐ Air Bags
☐ EnCores / Methanol Pre-Preserved
☐ Formaldehyde/Aldehyde
☐ Green-tagged containers
☐ Yellow/White-tagged 1L ambers (SV Prep-Lab)

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S)
☑ NONE RECEIVED
☐ RECEIVED, COCs TO LAB(S)

Notes

☑ Trip Blank received ☐ Trip Blank not listed on COC
☐ No COC received, Proj. Chemist reviewed (Init/Date) _____
☐ No analysis requested, Proj. Chemist completed (Init/Date) _____

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
11/9/11 0820	11/9/11 0924	Yes / (No)

Attachment 2
Data Validation Reports

Laboratory Data Validation

October 2011 Groundwater Monitoring Event
Former Tecumseh Products Company Site
Tecumseh, Michigan

Forty-one water samples and three field duplicates, were collected between October 4th and 10th, 2011, in addition to five trip blanks and three equipment rinsate blanks. These samples were analyzed by Trimatrix Laboratories, located in Grand Rapids, Michigan. The samples were analyzed for volatile organic analytes by USEPA Method 8260 B following protocols specified in the Quality Assurance Project Plan (QAPP) for the former Tecumseh Products Company (TPC) site in Tecumseh, Michigan. TRC performed a validation of the laboratory data. The following sections summarize the data validation procedure and the results of the validation.

Validation Procedure

The analytical data were validated using the USEPA National Functional Guidelines for Organic Data Review (USEPA, 2008). The data validation included a review of the spike, duplicate, and blank results from the laboratory, as well as verification that the sample holding times were met. TRC reviewed additional QC information to check for appropriate matrix performance using the analytical method specified by the laboratory. The procedures TRC used to evaluate data in general included the following items:

- Checked technical holding times for analyses and sample receipt temperature;
- Reviewed QC data for blanks, matrix spikes, laboratory duplicates, and laboratory control samples;
- Determined field precision from blind field duplicate data; and
- Assessed the usability of the data.

The data validation report addresses the following items:

- Usability of the data if QC results suggest potential problems with all or some of the data;
- Potential sample contamination due to blank contributions; and
- Actions regarding specific QC criteria exceedences.

TRC reviewed internal standard areas and retention times, method blanks, project-specific matrix spike and matrix spike duplicate (MS/MSD) recoveries, field and laboratory duplicate relative percent differences (RPDs), Laboratory Control Sample (LCS) recoveries, holding times, and temperature.

Findings

The data quality objectives and laboratory completeness goals for the project were met, and the data are usable. The procedures specified in the methods were implemented, and the data packages were found to contain all of the deliverables necessary for validation of the analytical data. The discussion that follows describes the QA/QC results and evaluation.

- The laboratory met technical holding times for all samples. Samples were sent to the lab in four shipments. The sample temperatures met QC limits upon receipt.
- Surrogate recoveries met QC limits.
- Internal standard areas and retention times were reviewed and found to be within acceptable QC limits.
- The laboratory performed an LCS with each analytical batch. LCS recoveries were within the laboratory control limits.
- Contaminants were not detected in the method blanks or in the trip blanks. Contaminants were not detected in the rinsate blanks, with the following exception: toluene was detected in equipment blank EB-01 at 1.1 ug/L. Toluene was not detected in any samples collected on the same day; therefore, no flags were assigned.
- Three field duplicate samples were collected. DUP-01 corresponded with sample MW-14d, DUP-02 corresponded with sample MW-19s, and DUP-03 corresponded with sample MW-21. No constituents were detected in DUP-01/MW-14d; therefore RPDs were not calculated from that data set. Calculated RPDs for the remaining samples were within QC limits. There were no laboratory duplicates.
- MS/MSD analyses were performed at a frequency of at least one per twenty samples in four batches. MS/MSD analyses were performed on samples MW-31, MW-27s, MW-31 (reanalyzed), and MW-20s. Recoveries and RPDs were within QC limits for each MS/MSD, with one exception. The recovery for trichloroethene was low in MW-31 (laboratory ID 1110922-MS1). This sample had been reanalyzed because the trichloroethene result was above the linear range of the initial calibration curve. A MS/MSD was performed on the reanalyzed sample and the recoveries and RPDs were within QC limits. Due to recovery exceedance in the initial analysis of sample MW-31, the earlier data should be ignored and the data resulting from the reanalysis should be used instead.

Prepared by: Jennifer Meek
Reviewed by: Terry Hertz

Laboratory Data Validation

November 2011 Groundwater Resample Event
Former Tecumseh Products Company Site
Tecumseh, Michigan

One groundwater sample was collected on November 4, 2011, in addition to one trip blank. These samples were analyzed by Trimatrix Laboratories, located in Grand Rapids, Michigan. The samples were analyzed for volatile organic analytes by USEPA Method 8260 B following protocols specified in the Quality Assurance Project Plan (QAPP) for the former Tecumseh Products Company (TPC) site in Tecumseh, Michigan. TRC performed a validation of the laboratory data. The following sections summarize the data validation procedure and the results of the validation.

Validation Procedure

The analytical data were validated using the USEPA National Functional Guidelines for Organic Data Review (USEPA, 2008). The data validation included a review of the spike, duplicate, and blank results from the laboratory, as well as verification that the sample holding times were met. TRC reviewed additional QC information to check for appropriate matrix performance using the analytical method specified by the laboratory. The procedures TRC used to evaluate data in general included the following items:

- Checked technical holding times for analyses and sample receipt temperature;
- Reviewed QC data for blanks, matrix spikes, laboratory duplicates, and laboratory control samples;
- Determined field precision from blind field duplicate data; and
- Assessed the usability of the data.

The data validation report addresses the following items:

- Usability of the data if QC results suggest potential problems with all or some of the data;
- Potential sample contamination due to blank contributions; and
- Actions regarding specific QC criteria exceedences.

TRC reviewed internal standard areas and retention times, method blanks, project-specific matrix spike and matrix spike duplicate (MS/MSD) recoveries, field and laboratory duplicate relative percent differences (RPDs), Laboratory Control Sample (LCS) recoveries, holding times, and temperature.

Findings

The data quality objectives and laboratory completeness goals for the project were met, and the data are usable. The procedures specified in the methods were implemented, and the data packages were found to contain all of the deliverables necessary for validation of the analytical data. The discussion that follows describes the QA/QC results and evaluation.

- The laboratory met technical holding times for both samples. The sample temperatures met QC limits upon receipt.
- Surrogate recoveries met QC limits.
- Internal standard areas and retention times were reviewed and found to be within acceptable QC limits.
- The laboratory performed an LCS and LCSD. Recoveries and RPDs were within the laboratory control limits.
- Neither field duplicates nor laboratory duplicates were performed during this sampling event.
- Contaminants were not detected in the method blank or in the trip blank.
- MS/MSD analyses were not performed.

Prepared by: Jennifer Meek
Reviewed by: Terry Hertz

Appendix C

Table 1
Summary of Gas Composition at Passive Vent Locations
Former Tecumseh Products Company Site
Tecumseh, Michigan

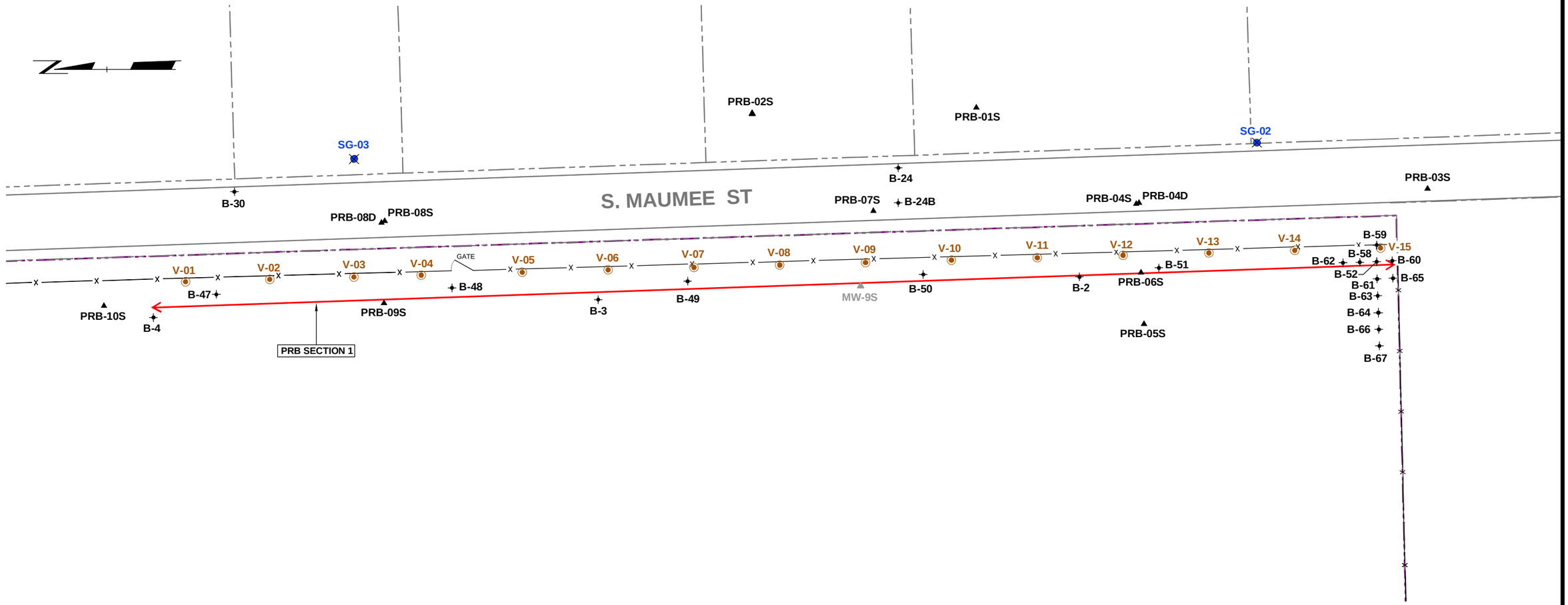
Analyte		Methane	Carbon Dioxide	Oxygen	Balance Gas
Units		%	%	%	%
V-01	11/4/2011	10.8	2.7	15.0	71.3
	11/14/2011	16.0	4.5	12.2	67.7
	12/14/2011	24.0	4.0	10.0	62.6
V-02	11/4/2011	39.5	3.9	10.1	46.7
	11/14/2011	32.0	4.3	8.8	53.5
	12/14/2011	33.0	3.2	11.8	52.8
V-03	11/4/2011	18.9	2.0	15.7	63.4
	11/14/2011	29.0	3.1	13.2	54.3
	12/14/2011	33.0	2.8	14.0	50.3
V-04	11/4/2011	10.2	0.6	17.9	72.7
	11/14/2011	25.6	1.5	14.3	58.4
	12/14/2011	5.8	0.4	20.5	72.8
V-05	11/4/2011	0.3	0.3	20.0	79.5
	11/14/2011	0.2	0.2	21.2	78.3
	12/14/2011	0.7	0.3	21.4	77.7
V-06	11/4/2011	0.2	0.2	20.3	79.1
	11/14/2011	0.7	0.3	21.1	77.9
	12/14/2011	0.7	0.2	21.8	77.3
V-07	11/4/2011	0.0	0.1	20.4	79.3
	11/14/2011	0.4	0.2	21.1	78.1
	12/14/2011	1.0	0.2	21.7	77.1
V-08	11/4/2011	0.9	0.1	20.1	78.7
	11/14/2011	2.4	0.3	20.3	76.9
	12/14/2011	1.5	0.2	21.6	77.0
V-09	11/4/2011	0.1	0.0	20.4	79.4
	11/14/2011	0.3	0.1	21.0	78.3
	12/14/2011	0.0	0.0	22.2	77.8
V-10	11/4/2011	0.0	0.1	20.5	79.3
	11/14/2011	0.0	0.1	21.3	78.7
	12/14/2011	0.0	0.1	21.7	78.2
V-11	11/4/2011	0.3	0.2	20.1	79.2
	11/14/2011	0.9	0.3	20.7	78.1
	12/14/2011	0.0	0.0	22.2	77.8
V-12	11/4/2011	0.4	0.5	19.7	79.5
	11/14/2011	0.1	0.4	20.5	78.8
	12/14/2011	0.0	0.1	22.2	77.7

Notes:
Sample locations are shown on the attached figure: Figure 1 - As-Built Passive Vent Locations.

Table 1
Summary of Gas Composition at Passive Vent Locations
Former Tecumseh Products Company Site
Tecumseh, Michigan

Analyte		Methane	Carbon Dioxide	Oxygen	Balance Gas
Units		%	%	%	%
V-13	11/4/2011	0.2	0.5	19.8	79.7
	11/14/2011	0.1	0.6	20.4	78.8
	12/14/2011	0.4	0.5	20.9	78.1
V-14	11/4/2011	0.3	3.1	15.5	81.0
	11/14/2011	0.0	0.3	20.9	78.7
	12/14/2011	1.0	1.4	19.4	78.2
V-15	11/4/2011	0.0	0.3	20.0	79.4
	11/14/2011	0.0	0.3	20.9	78.6
	12/14/2011	0.0	0.0	22.3	77.7
SG-02	11/4/2011	0.0	1.2	18.3	80.4
	11/14/2011	NM	NM	NM	NM
	12/14/2011	0.0	1.0	13.5	85.5
SG-03	11/4/2011	0.0	4.9	8.1	86.9
	11/14/2011	NM	NM	NM	NM
	12/14/2011	0.0	1.5	19.5	79.0

Notes:
Sample locations are shown on the attached figure: Figure 1 - As-Built Passive Vent Locations.



LEGEND

- FORMER TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARY
- **B-2** PERIMETER / OFF-SITE INVESTIGATION SOIL BORING LOCATION AND NUMBER
- **PRB-04S** MONITORING WELL LOCATION AND NUMBER
- **MW-9S** DECOMMISSIONED MONITORING WELL LOCATION AND NUMBER
- **SG-02** SOIL GAS SAMPLE LOCATION AND NUMBER
- **V-04** PASSIVE VENT LOCATION AND NUMBER
- PRB LOCATION
- FENCE LINE

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
2. GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S TOPOGRAPHIC QUADRANGLE MAP AND GROUND SURVEY DATA.

APPROXIMATE HORIZONTAL SCALE

0 60' 120'

PROJECT:
FORMER TECUMSEH PRODUCTS SITE
TECUMSEH, MICHIGAN

SHEET TITLE:
AS-BUILT PASSIVE VENT LOCATIONS

DRAWN BY: DGS	SCALE:	PROJ. NO.	004310.01
CHECKED BY: SEM	AS INDICATED	FILE NO.	004310.01.01.dwg
APPROVED BY: GC	DATE PRINTED:	**FIGURE 1**	
DATE: JANUARY 2012			

TRC
1540 Eisenhower Place
Ann Arbor, MI 48108
Phone: 734.971.7080
Fax: 734.971.9022

PLOT DATA
Drawing Name: J:_TRC\Tecumseh Products\TECUMSEH\004310\01\2011 4Q PROGRESS RPT\004310.01.01.dwg
Operator Name: STEHLE, DIANAH
Drawing Plot Scale: 0.386863
Dwg Size: 2.45 Mb
Plot Date: January 10, 2012
Plot Time: 3:45 PM
Attached Xrefs: bm033109
Attached Images: Triangle-wind-braced-turbine[1];
Layout: FIG01 Prop Passive Vents