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# GROUNDWATER SAMPLE RESULTS

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: December 18, 2008
Collection Date: December 15, 2008

Lab Sample ID: 6907-70238

Sample ID: GP-1

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 12/19/2008 | LLW |
| Barium | 0.11 | 0.1 | mg/L | SW846 7081 | 12/19/2008 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 12/18/2008 | EDW |
| Chromium | ND | 0.01 | mg/L | SW846 7190 | 12/18/2008 | EDW |
| Copper | ND | 0.004 | mg/L | SW846 7210 | 12/22/2008 | EDW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 12/18/2008 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 12/23/2008 | LLW |
| Selenium | ND | 0.005 | mg/L | SW846 7740 | 12/19/2008 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7760 | 12/18/2008 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 12/22/2008 | EDW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| cis-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/15/2008

Lab Sample ID: 6907-70238

Sample ID: GP-1

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| p-Isopropyltoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| **Semi-Volatile Analysis** | | | | | | |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/19/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzidine | ND | 50 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(b)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(g,h,I)perylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(k)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyoxy)methane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroisopopyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-ethylhexyl)phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Bromophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Butyl benzyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloro-3-methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chloronaphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chlorophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Chrysene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzofuran | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

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Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/15/2008

Lab Sample ID: 6907-70238

Sample ID: GP-1

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **SVOA Analysis- continued** | | | | | | |
| Diethyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dimethylbenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dimethylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dimethylphthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-butyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4,6-Dinitro-2-methylphenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,6-Dinitrotoluene | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-octyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzo(a,h)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobutadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachloroethane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Isophorone | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylnapthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Nitrobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitrophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| N-Nitrosodi-n-propylamine | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pentachlorophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenanthrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,6-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,5-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lori White

Date: 12/30/2008

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8290 Pettysville Road
Pinckney, MI 48169

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## Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: December 18, 2008
Collection Date: December 15, 2008

Lab Sample ID: 6907-70239

Sample ID: GP-2

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide Analysis** | ND | 0.1 | mg/L | SW846 9010 | 12/27/2008 | LLW |
| **Metals Analysis** | | | | | | |
| Cadmium | ND | 0.0005 | mg/L | SW846 7131 | 12/18/2008 | LLW |
| Chromium | ND | 0.005 | mg/L | SW846 7191 | 12/18/2008 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 12/18/2008 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethane | 11 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethene | 17 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| cis-1,2-Dichloroethene | 210 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| trans-1,2-Dichloroethene | 4 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |

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Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/15/2008

Lab Sample ID: 6907-70239

Sample ID: GP-2

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis (Continued from Page 1)** | | | | | | |
| Methyene chloride | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Tetrachloroethene | 2 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1-Trichloroethane | 16 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichloroethene | 920 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| **PNA Analysis** | | | | | | |
| Extraction: | - | - | - | - | 12/19/2008 | KEW |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)anthracene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(b)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(k)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(ghi)perylene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo (a)pyrene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Chrysene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzo(ah)anthracene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylnaphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenanthrene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: *Lorri White*

Date: 12/30/2008

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## Certificate of Analysis



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Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: December 18, 2008
Collection Date: December 15, 2008

Lab Sample ID: 6907-70240

Sample ID: GP-3

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide Analysis** | ND | 0.1 | mg/L | SW846 9010 | 12/27/2008 | LLW |
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 12/19/2008 | LLW |
| Barium | ND | 0.1 | mg/L | SW846 7081 | 12/19/2008 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 12/18/2008 | EDW |
| Chromium | ND | 0.01 | mg/L | SW846 7190 | 12/18/2008 | EDW |
| Copper | 0.006 | 0.004 | mg/L | SW846 7210 | 12/22/2008 | EDW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 12/18/2008 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 12/23/2008 | LLW |
| Selenium | ND | 0.005 | mg/L | SW846 7740 | 12/19/2008 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7760 | 12/18/2008 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 12/22/2008 | EDW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroethane | 43 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethane | 25 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethene | 2 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| cis-1,2-Dichloroethene | 760 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| trans-1,2-Dichloroethene | 27 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |

# Certificate of Analysis

Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/15/2008

Lab Sample ID: 6907-70240

Sample ID: GP-3

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| p-Isopropyltoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichloroethene | 510 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| **Semi-Volatile Analysis** | | | | | | |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzidine | ND | 50 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(b)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(g,h,l)perylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(k)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyoxy)methane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroisopopyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-ethylhexyl)phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Bromophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Butyl benzyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloro-3-methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chloronaphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chlorophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Chrysene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzofuran | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/15/2008

Lab Sample ID: 6907-70240

Sample ID: GP-3

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **SVOA Analysis- continued** | | | | | | |
| Diethyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dimethylbenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dimethylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dimethylphthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-butyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4,6-Dinitro-2-methylphenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,6-Dinitrotoluene | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-octyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzo(a,h)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobutadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachloroethane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Isophorone | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylnapthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Nitrobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitrophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| N-Nitrosodi-n-propylamine | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pentachlorophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenanthrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,6-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,5-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: December 18, 2008
Collection Date: December 15, 2008

Lab Sample ID: 6907-70241

Sample ID: GP-4

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide Analysis** | ND | 0.1 | mg/L | SW846 9010 | 12/27/2008 | LLW |
| **Metals Analysis** | | | | | | |
| Cadmium | ND | 0.0005 | mg/L | SW846 7131 | 12/18/2008 | LLW |
| Chromium | ND | 0.005 | mg/L | SW846 7191 | 12/18/2008 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 12/18/2008 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroethane | 9 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethane | 18 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethene | 4 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| cis-1,2-Dichloroethene | 240 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| trans-1,2-Dichloroethene | 22 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyene chloride | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/15/2008

Lab Sample ID: 6907-70241

Sample ID: GP-4

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis (Continued from Page 1)** | | | | | | |
| Naphthalene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichloroethene | 320 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| **PNA Analysis** | | | | | | |
| Extraction: | - | - | - | - | 12/19/2008 | KEW |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)anthracene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(b)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(k)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(ghi)perylene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo (a)pyrene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Chrysene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzo(ah)anthracene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylnaphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenanthrene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: *Lorri White*

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: December 18, 2008
Collection Date: December 15, 2008

Lab Sample ID: 6907-70242

Sample ID: GP-5

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 12/19/2008 | LLW |
| Barium | ND | 0.1 | mg/L | SW846 7081 | 12/19/2008 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 12/18/2008 | EDW |
| Chromium | ND | 0.01 | mg/L | SW846 7190 | 12/18/2008 | EDW |
| Copper | 0.010 | 0.004 | mg/L | SW846 7210 | 12/22/2008 | EDW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 12/18/2008 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 12/23/2008 | LLW |
| Selenium | ND | 0.005 | mg/L | SW846 7740 | 12/19/2008 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7760 | 12/18/2008 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 12/22/2008 | EDW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroethane | 23 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethane | 160 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethene | 10 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| cis-1,2-Dichloroethene | 510 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| trans-1,2-Dichloroethene | 12 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/15/2008

Lab Sample ID: 6907-70242

Sample ID: GP-5

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| p-Isopropyltoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichloroethene | 660 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| **Semi-Volatile Analysis** | | | | | | |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzidine | ND | 50 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(b)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(g,h,l)perylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(k)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyoxy)methane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroisopopyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-ethylhexyl)phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Bromophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Butyl benzyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloro-3-methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chloronaphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chlorophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Chrysene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzofuran | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/15/2008

Lab Sample ID: 6907-70242

Sample ID: GP-5

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **SVOA Analysis- continued** | | | | | | |
| Diethyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dimethylbenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dimethylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dimethylphthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-butyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4,6-Dinitro-2-methylphenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,6-Dinitrotoluene | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-octyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzo(a,h)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobutadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachloroethane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Isophorone | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylnapthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Nitrobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitrophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| N-Nitrosodi-n-propylamine | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pentachlorophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenanthrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,6-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,5-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: December 18, 2008
Collection Date: December 15, 2008

Lab Sample ID: 6907-70243

Sample ID: GP-6

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide Analysis** | ND | 0.1 | mg/L | SW846 9010 | 12/27/2008 | LLW |
| **Metals Analysis** | | | | | | |
| Cadmium | ND | 0.0005 | mg/L | SW846 7131 | 12/18/2008 | LLW |
| Chromium | ND | 0.005 | mg/L | SW846 7191 | 12/18/2008 | LLW |
| Lead | 0.003 | 0.003 | mg/L | SW846 7421 | 12/18/2008 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | 3 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroethane | 11 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethane | 84 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethene | 70 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| cis-1,2-Dichloroethene | 120 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| trans-1,2-Dichloroethene | 1 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyene chloride | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/15/2008

Lab Sample ID: 6907-70243

Sample ID: GP-6

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis (Continued from Page 1)** | | | | | | |
| Naphthalene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1-Trichloroethane | 60 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichloroethene | 550 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| **PNA Analysis** | | | | | | |
| Extraction: | - | - | - | - | 12/19/2008 | KEW |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)anthracene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(b)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(k)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(ghi)perylene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo (a)pyrene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Chrysene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzo(ah)anthracene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylnaphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenanthrene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: *Lorri White*

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: December 18, 2008
Collection Date: December 16, 2008

Lab Sample ID: 6907-70244

Sample ID: GP-7

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide Analysis** | ND | 0.1 | mg/L | SW846 9010 | 12/27/2008 | LLW |
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 12/19/2008 | LLW |
| Barium | ND | 0.1 | mg/L | SW846 7081 | 12/19/2008 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 12/18/2008 | EDW |
| Chromium | ND | 0.01 | mg/L | SW846 7190 | 12/18/2008 | EDW |
| Copper | ND | 0.004 | mg/L | SW846 7210 | 12/22/2008 | EDW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 12/18/2008 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 12/23/2008 | LLW |
| Selenium | ND | 0.005 | mg/L | SW846 7740 | 12/19/2008 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7760 | 12/18/2008 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 12/22/2008 | EDW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroethane | 5 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethene | 3 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| cis-1,2-Dichloroethene | 4 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |

# Certificate of Analysis

Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/16/2008

Lab Sample ID: 6907-70244

Sample ID: GP-7

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| p-Isopropyltoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1-Trichloroethane | 3 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichloroethene | 300 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| **Semi-Volatile Analysis** | | | | | | |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzidine | ND | 50 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(b)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(g,h,l)perylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(k)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyoxy)methane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroisopopyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-ethylhexyl)phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Bromophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Butyl benzyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloro-3-methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chloronaphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chlorophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Chrysene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzofuran | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/16/2008

Lab Sample ID: 6907-70244

Sample ID: GP-7

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **SVOA Analysis- continued** | | | | | | |
| Diethyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dimethylbenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dimethylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dimethylphthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-butyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4,6-Dinitro-2-methylphenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,6-Dinitrotoluene | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-octyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzo(a,h)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobutadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachloroethane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Isophorone | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylnapthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Nitrobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitrophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| N-Nitrosodi-n-propylamine | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pentachlorophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenanthrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,6-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,5-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: December 18, 2008
Collection Date: December 16, 2008

Lab Sample ID: 6907-70245

Sample ID: GP-8

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide Analysis** | ND | 0.1 | mg/L | SW846 9010 | 12/27/2008 | LLW |
| **Metals Analysis** | | | | | | |
| Cadmium | ND | 0.0005 | mg/L | SW846 7131 | 12/18/2008 | LLW |
| Chromium | ND | 0.005 | mg/L | SW846 7190 | 12/18/2008 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 12/18/2008 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethane | 9 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| cis-1,2-Dichloroethene | 160 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| trans-1,2-Dichloroethene | 11 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| p-Isopropyltoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/16/2008

Lab Sample ID: 6907-70245

Sample ID: GP-8

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichloroethene | 49 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| **Semi-Volatile Analysis** | | | | | | |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzidine | ND | 50 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(b)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(g,h,I)perylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(k)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyoxy)methane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroisopopyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-ethylhexyl)phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Bromophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Butyl benzyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloro-3-methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chloronaphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chlorophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Chrysene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzofuran | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Diethyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dimethylbenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dimethylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dimethylphthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-butyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/16/2008

Lab Sample ID: 6907-70245

Sample ID: GP-8

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **SVOA Analysis- continued** | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,6-Dinitrotoluene | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-octyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzo(a,h)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobutadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachloroethane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Isophorone | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylnapthalene | 7 | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Naphthalene | 10 | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Nitrobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitrophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| N-Nitrosodi-n-propylamine | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pentachlorophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenanthrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,6-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,5-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: December 18, 2008
Collection Date: December 16, 2008

Lab Sample ID: 6907-70246

Sample ID: GP-9

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide Analysis** | ND | 0.1 | mg/L | SW846 9010 | 12/27/2008 | LLW |
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 12/19/2008 | LLW |
| Barium | ND | 0.1 | mg/L | SW846 7081 | 12/19/2008 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 12/18/2008 | LLW |
| Chromium | ND | 0.01 | mg/L | SW846 7191 | 12/18/2008 | LLW |
| Copper | ND | 0.004 | mg/L | SW846 7210 | 12/22/2008 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 12/18/2008 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 12/23/2008 | LLW |
| Selenium | ND | 0.005 | mg/L | SW846 7741 | 12/19/2008 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7761 | 12/18/2008 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 12/22/2008 | LLW |
| **PNA Analysis** | | | | | | |
| Extraction: | | | | | 12/19/2008 | LLW |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)anthracene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(b)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(k)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(ghi)perylene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo (a)pyrene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Chrysene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzo(ah)anthracene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylnaphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenanthrene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/16/2008

Lab Sample ID: 6907-70246

Sample ID: GP-9

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis-continued from page 1** | | | | | | |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethane | 89 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethene | 26 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| cis-1,2-Dichloroethene | 9 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| trans-1,2-Dichloroethene | 2 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyene chloride | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1-Trichloroethane | 31 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichloroethene | 540 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- the LRL is based on MDEQ TDL, dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 12/30/2008

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# Lakeland Laboratories, Inc.

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Pinckney, MI 48169

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FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: December 18, 2008
Collection Date: December 16, 2008

Lab Sample ID: 6907-70247

Sample ID: GP-10

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide Analysis** | ND | 0.1 | mg/L | SW846 9010 | 12/27/2008 | LLW |
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 12/19/2008 | LLW |
| Barium | ND | 0.1 | mg/L | SW846 7081 | 12/19/2008 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 12/18/2008 | EDW |
| Chromium | ND | 0.01 | mg/L | SW846 7190 | 12/18/2008 | EDW |
| Copper | 0.011 | 0.004 | mg/L | SW846 7210 | 12/22/2008 | EDW |
| Lead | 0.005 | 0.003 | mg/L | SW846 7421 | 12/18/2008 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 12/23/2008 | LLW |
| Selenium | ND | 0.005 | mg/L | SW846 7740 | 12/19/2008 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7760 | 12/18/2008 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 12/22/2008 | EDW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroform | 1 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethane | 3 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethene | 76 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| cis-1,2-Dichloroethene | 36 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/16/2008

Lab Sample ID: 6907-70247

Sample ID: GP-10

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| p-Isopropyltoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1-Trichloroethane | 34 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2-Trichloroethane | 4 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichloroethene | 370 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| **Semi-Volatile Analysis** | | | | | | |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzidine | ND | 50 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(b)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(g,h,l)perylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(k)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyoxy)methane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroisopopyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-ethylhexyl)phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Bromophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Butyl benzyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloro-3-methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chloronaphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chlorophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Chrysene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzofuran | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/16/2008

Lab Sample ID: 6907-70247

Sample ID: GP-10

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **SVOA Analysis- continued** | | | | | | |
| Diethyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dimethylbenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dimethylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dimethylphthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-butyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4,6-Dinitro-2-methylphenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,6-Dinitrotoluene | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-octyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzo(a,h)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobutadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachloroethane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Isophorone | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylnapthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Nitrobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitrophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| N-Nitrosodi-n-propylamine | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pentachlorophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenanthrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,6-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,5-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008

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46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: December 18, 2008
Collection Date: December 16, 2008

Lab Sample ID: 6907-70248

Sample ID: GP-11

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide Analysis** | ND | 0.1 | mg/L | SW846 9010 | 12/27/2008 | LLW |
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 12/19/2008 | LLW |
| Barium | 0.1 | 0.1 | mg/L | SW846 7081 | 12/19/2008 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 12/18/2008 | EDW |
| Chromium | ND | 0.01 | mg/L | SW846 7190 | 12/18/2008 | EDW |
| Copper | ND | 0.004 | mg/L | SW846 7210 | 12/22/2008 | EDW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 12/18/2008 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 12/23/2008 | LLW |
| Selenium | ND | 0.005 | mg/L | SW846 7740 | 12/19/2008 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7760 | 12/18/2008 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 12/22/2008 | EDW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| n-Butylbenzene | 3 | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,1-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,1-Dichloroethene | 3 | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| cis-1,2-Dichloroethene | 15 | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/16/2008

Lab Sample ID: 6907-70248

Sample ID: GP-11

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Ethylbenzene | 3 | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| p-Isopropyltoluene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| n-Propylbenzene | 7 | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,1,1-Trichloroethane | 4 | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Trichloroethene | 100 | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,2,4-Trimethylbenzene | 64 | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| 1,3,5-Trimethylbenzene | 35 | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/24/2008 | LLW |
| **Semi-Volatile Analysis** | | | | | | |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzidine | ND | 50 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(b)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(g,h,I)perylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(k)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyoxy)methane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroisopopyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-ethylhexyl)phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Bromophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Butyl benzyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloro-3-methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chloronaphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chlorophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Chrysene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzofuran | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



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Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/16/2008

Lab Sample ID: 6907-70248

Sample ID: GP-11

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **SVOA Analysis- continued** | | | | | | |
| Diethyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dimethylbenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dimethylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dimethylphthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-butyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4,6-Dinitro-2-methylphenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,6-Dinitrotoluene | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-octyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzo(a,h)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobutadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachloroethane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Isophorone | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylnapthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Nitrobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitrophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| N-Nitrosodi-n-propylamine | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pentachlorophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenanthrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,6-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,5-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: December 18, 2008
Collection Date: December 16, 2008

Lab Sample ID: 6907-70249

Sample ID: GP-12

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide Analysis** | ND | 0.1 | mg/L | SW846 9010 | 12/27/2008 | LLW |
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 12/19/2008 | LLW |
| Barium | ND | 0.1 | mg/L | SW846 7081 | 12/19/2008 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 12/18/2008 | EDW |
| Chromium | ND | 0.01 | mg/L | SW846 7190 | 12/18/2008 | EDW |
| Copper | 0.006 | 0.004 | mg/L | SW846 7210 | 12/22/2008 | EDW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 12/18/2008 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 12/23/2008 | LLW |
| Selenium | ND | 0.005 | mg/L | SW846 7740 | 12/19/2008 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7760 | 12/18/2008 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 12/22/2008 | EDW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroform | 3 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethane | 3 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethene | 320 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| cis-1,2-Dichloroethene | 7 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/16/2008

Lab Sample ID: 6907-70249

Sample ID: GP-12

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| p-Isopropyltoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1-Trichloroethane | 390 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichloroethene | 530 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| **Semi-Volatile Analysis** | | | | | | |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzidine | ND | 50 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(b)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(g,h,I)perylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(k)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroethyoxy)methane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-chloroisopopyl) ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Bis(2-ethylhexyl)phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Bromophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Butyl benzyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloro-3-methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chloronaphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Chlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Chlorophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Chrysene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzofuran | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
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Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/16/2008

Lab Sample ID: 6907-70249

Sample ID: GP-12

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **SVOA Analysis- continued** | | | | | | |
| Diethyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3,3'-Dimethylbenzidine | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dimethylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dimethylphthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-butyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4,6-Dinitro-2-methylphenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,6-Dinitrotoluene | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Di-n-octyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzo(a,h)anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorobutadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Hexachloroethane | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Isophorone | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylnapthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Nitrobenzene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Nitrophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| N-Nitrosodi-n-propylamine | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pentachlorophenol | ND | 20 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenanthrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,6-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2,4,5-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: December 18, 2008
Collection Date: December 16, 2008

Lab Sample ID: 6907-70250

Sample ID: GP-13

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 12/19/2008 | LLW |
| Barium | ND | 0.1 | mg/L | SW846 7081 | 12/19/2008 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 12/18/2008 | LLW |
| Chromium | ND | 0.01 | mg/L | SW846 7191 | 12/18/2008 | LLW |
| Copper | 0.008 | 0.004 | mg/L | SW846 7210 | 12/22/2008 | LLW |
| Lead | 0.003 | 0.003 | mg/L | SW846 7421 | 12/18/2008 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 12/23/2008 | LLW |
| Selenium | ND | 0.005 | mg/L | SW846 7741 | 12/19/2008 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7761 | 12/18/2008 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 12/22/2008 | LLW |
| **PNA Analysis** | | | | | | |
| Extraction: | | | | | 12/19/2008 | LLW |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(a)anthracene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(b)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(k)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo(ghi)perylene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Benzo (a)pyrene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Chrysene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Dibenzo(ah)anthracene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| 2-Methylnaphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Phenanthrene | ND | 2 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/20/2008 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Tecumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/18/2008
Collection Date: 12/16/2008

Lab Sample ID: 6907-70250

Sample ID: GP-13

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis-continued from page 1** | | | | | | |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloroethene | 6 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| cis-1,2-Dichloroethene | 1 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyene chloride | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,1-Trichloroethane | 6 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichloroethene | 210 | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/17/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/17/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.

Result- The reported concentration in the sample

Analysis Date- Date the analysis was performed

LRL- Lower Reporting Limit- the LRL is based on MDEQ TDL, dilutions may affect the LRL.

Analyst- Initials of the analyst performing the analysis

Units- The unit which corresponds to the reported concentration

ND- Parameter not detected above the reported LRL

Reviewed By: Lori White

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008
1/7/2009
Project Name: Techumseh Products
Project Number: 39.02922-8N01
Submit Date: December 23, 2008
Collection Date: December 23, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Lab Sample ID: 6922-70382

Sample ID: GP-14

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Metals Analysis** | | | | | | |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 1/4/2009 | LLW |
| Chromium | ND | 0.01 | mg/L | SW846 7191 | 1/4/2009 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/4/2009 | LLW |
| **PNA Analysis** | | | | | | |
| Extraction: | | | | | 12/23/2008 | LLW |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(a)anthracene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(b)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(k)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(ghi)perylene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo (a)pyrene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Chrysene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Dibenzo(ah)anthracene | ND | 2 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 2 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Methylnaphthalene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Phenanthrene | ND | 2 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Techumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/23/2008
Collection Date: 12/23/2008

Lab Sample ID: 6922-70382

Sample ID: GP-14

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis-continued from page '** | | | | | | |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1-Dichloroethane | 8 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1-Dichloroethene | 31 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| cis-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Methyene chloride | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Methyl (tert) butylether (MTBE | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Tetrachloroethene | 12 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,1-Trichloroethane | 260 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,2-Trichloroethane | 1 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Trichloroethene | 190 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- the LRL is based on MDEQ TDL, dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lori White

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008
1/7/2009
Project Name: Techumseh Products
Project Number: 39.02922-8N01
Submit Date: December 23, 2008
Collection Date: December 23, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Lab Sample ID: 6922-70381

Sample ID: GP-15

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Metals Analysis** | | | | | | |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 1/4/2009 | LLW |
| Chromium | ND | 0.01 | mg/L | SW846 7191 | 1/4/2009 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/4/2009 | LLW |
| **PNA Analysis** | | | | | | |
| Extraction: | | | | | 12/23/2008 | LLW |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(a)anthracene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(b)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(k)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(ghi)perylene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo (a)pyrene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Chrysene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Dibenzo(ah)anthracene | ND | 2 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 2 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Methylnaphthalene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Phenanthrene | ND | 2 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Techumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/23/2008
Collection Date: 12/23/2008

Lab Sample ID: 6922-70381

Sample ID: GP-15

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis-continued from page** | | | | | | |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1-Dichloroethane | 31 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1-Dichloroethene | 12 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| cis-1,2-Dichloroethene | 120 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| trans-1,2-Dichloroethene | 3 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Methyene chloride | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Methyl (tert) butylether (MTBE | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Tetrachloroethene | 3 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,1-Trichloroethane | 150 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Trichloroethene | 450 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- the LRL is based on MDEQ TDL, dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008
1/7/2009

Project Name: Techumseh Products
Project Number: 39.02922-8N01
Submit Date: December 23, 2008
Collection Date: December 23, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Lab Sample ID: 6922-70383

Sample ID: GP-16

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide Analysis** | 0.005 | 0.005 | mg/L | SW846 9010 | 1/5/2009 | LLW |
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 1/7/2009 | LLW |
| Barium | ND | 0.1 | mg/L | SW846 7081 | 1/7/2009 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 1/4/2009 | LLW |
| Chromium | ND | 0.01 | mg/L | SW846 7190 | 1/4/2009 | LLW |
| Copper | ND | 0.004 | mg/L | SW846 7210 | 1/4/2009 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/4/2009 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 12/31/2008 | GTM |
| Selenium | ND | 0.005 | mg/L | SW846 7740 | 1/7/2009 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7760 | 1/4/2009 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 1/4/2009 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | 9 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1-Dichloroethane | 30 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1-Dichloroethene | 2 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| cis-1,2-Dichloroethene | 3 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| trans-1,2-Dichloroethene | 1 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis

Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Techumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/23/2008
Collection Date: 12/23/2008

Lab Sample ID: 6922-70383

Sample ID: GP-16

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Ethylbenzene | 3 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| p-Isopropyltoluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Toluene | 3 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,1-Trichloroethane | 16 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,2-Trichloroethane | 2 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Trichloroethene | 8 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,4-Trimethylbenzene | 4 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3,5-Trimethylbenzene | 1 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Xylenes | 10 | 3 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| **Semi-Volatile Analysis** | | | | | | |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzidine | ND | 50 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(a)anthracene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(a)pyrene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(b)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(g,h,I)perylene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(k)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Bis(2-chloroethyl) ether | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Bis(2-chloroethyoxy)methane | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Bis(2-chloroisopopyl) ether | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Bis(2-ethylhexyl)phthalate | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4-Bromophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Butyl benzyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4-Chloro-3-methylphenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Chloronaphthalene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Chlorophenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4-Chlorophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Chrysene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Dibenzofuran | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2,4-Dichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Techumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/23/2008
Collection Date: 12/23/2008

Lab Sample ID: 6922-70383

Sample ID: GP-16

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **SVOA Analysis- continued** | | | | | | |
| Diethyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 3,3'-Dimethylbenzidine | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2,4-Dimethylphenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Dimethylphthalate | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Di-n-butyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4,6-Dinitro-2-methylphenol | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2,4-Dinitrophenol | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2,6-Dinitrotoluene | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Di-n-octyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Dibenzo(a,h)anthracene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Hexachlorobenzene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Hexachlorobutadiene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Hexachloroethane | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Isophorone | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Methylnapthalene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Nitrobenzene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Nitrophenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| N-Nitrosodi-n-propylamine | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Pentachlorophenol | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Phenanthrene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Phenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2,4,6-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2,4,5-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008
1/7/2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Techumseh Products
Project Number: 39.02922-8N01
Submit Date: December 23, 2008
Collection Date: December 23, 2008

Lab Sample ID: 6922-70384

Sample ID: GP-17

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide Analysis** | 0.006 | 0.005 | mg/L | SW846 9010 | 1/5/2009 | LLW |
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 1/7/2009 | LLW |
| Barium | ND | 0.1 | mg/L | SW846 7081 | 1/7/2009 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 1/4/2009 | LLW |
| Chromium | ND | 0.01 | mg/L | SW846 7190 | 1/4/2009 | LLW |
| Copper | ND | 0.004 | mg/L | SW846 7210 | 1/4/2009 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/4/2009 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 12/31/2008 | GTM |
| Selenium | ND | 0.005 | mg/L | SW846 7740 | 1/7/2009 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7760 | 1/4/2009 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 1/4/2009 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,1-Dichloroethane | 47 | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,1-Dichloroethene | 18 | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| cis-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Techumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/23/2008
Collection Date: 12/23/2008

Lab Sample ID: 6922-70384

Sample ID: GP-17

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| p-Isopropyltoluene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Tetrachloroethene | 1 | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,1,1-Trichloroethane | 200 | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Trichloroethene | 200 | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/28/2009 | LLW |
| **Semi-Volatile Analysis** | | | | | | |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzidine | ND | 50 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(a)anthracene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(a)pyrene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(b)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(g,h,I)perylene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(k)fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Bis(2-chloroethyl) ether | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Bis(2-chloroethyoxy)methane | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Bis(2-chloroisopopyl) ether | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Bis(2-ethylhexyl)phthalate | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4-Bromophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Butyl benzyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4-Chloro-3-methylphenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Chloronaphthalene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Chlorophenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4-Chlorophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Chrysene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Dibenzofuran | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2,4-Dichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Techumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/23/2008
Collection Date: 12/23/2008

Lab Sample ID: 6922-70384

Sample ID: GP-17

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **SVOA Analysis- continued** | | | | | | |
| Diethyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 3,3'-Dimethylbenzidine | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2,4-Dimethylphenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Dimethylphthalate | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Di-n-butyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4,6-Dinitro-2-methylphenol | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2,4-Dinitrophenol | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2,6-Dinitrotoluene | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Di-n-octyl phthalate | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Dibenzo(a,h)anthracene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Fluoranthene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Hexachlorobenzene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Hexachlorobutadiene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Hexachloroethane | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Isophorone | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Methylnapthalene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4-Methylphenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Nitrobenzene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Nitrophenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| N-Nitrosodi-n-propylamine | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Pentachlorophenol | ND | 20 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Phenanthrene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Phenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2,4,6-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2,4,5-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lori White

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008
1/7/2009

Project Name: Techumseh Products
Project Number: 39.02922-8N01
Submit Date: December 23, 2008
Collection Date: December 23, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Lab Sample ID: 6922-70385

Sample ID: GP-18

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Metals Analysis** | | | | | | |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 1/4/2009 | LLW |
| Chromium | ND | 0.01 | mg/L | SW846 7191 | 1/4/2009 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/4/2009 | LLW |
| **PNA Analysis** | | | | | | |
| Extraction: | | | | | 12/23/2008 | LLW |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(a)anthracene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(b)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(k)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(ghi)perylene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo (a)pyrene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Chrysene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Dibenzo(ah)anthracene | ND | 2 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 2 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Methylnaphthalene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Phenanthrene | ND | 2 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Techumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/23/2008
Collection Date: 12/23/2008

Lab Sample ID: 6922-70385

Sample ID: GP-18

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis-continued from page '** | | | | | | |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| cis-1,2-Dichloroethene | 1 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Methyene chloride | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Methyl (tert) butylether (MTBE | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Tetrachloroethene | 1 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,1-Trichloroethane | 3 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Trichloroethene | 190 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- the LRL is based on MDEQ TDL, dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: December 30, 2008
1/7/2009

Project Name: Techumseh Products
Project Number: 39.02922-8N01
Submit Date: December 23, 2008
Collection Date: December 23, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Lab Sample ID: 6922-70386

Sample ID: GP-19

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Metals Analysis** | | | | | | |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 1/4/2009 | LLW |
| Chromium | ND | 0.01 | mg/L | SW846 7191 | 1/4/2009 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/4/2009 | LLW |
| **PNA Analysis** | | | | | | |
| Extraction: | | | | | 12/23/2008 | LLW |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(a)anthracene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(b)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(k)fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo(ghi)perylene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Benzo (a)pyrene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Chrysene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Dibenzo(ah)anthracene | ND | 2 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Fluoranthene | ND | 1 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 2 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| 2-Methylnaphthalene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Phenanthrene | ND | 2 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 12/30/2008 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: December 30, 2008

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48377

Project Name: Techumseh Products
Project Number: 39.02922-8N01
Submit Date: 12/23/2008
Collection Date: 12/23/2008

Lab Sample ID: 6922-70386

Sample ID: GP-19

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis-continued from page** | | | | | | |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1-Dichloroethene | 11 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| cis-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Methyene chloride | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Methyl (tert) butylether (MTBE | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,1-Trichloroethane | 71 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Trichloroethene | 86 | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 12/28/2008 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 12/28/2008 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- the LRL is based on MDEQ TDL, dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 12/30/2008

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: January 16, 2009
Collection Date: January 14, 2009

Lab Sample ID: 6953-70970

Sample ID: GP-21

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Metals Analysis** | | | | | | |
| Cadmium | ND | 0.0005 | mg/L | SW846 7131 | 1/21/2009 | LLW |
| Chromium | ND | 0.005 | mg/L | SW846 7191 | 1/21/2009 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/21/2009 | LLW |
| **PNA Analysis** | | | | | | |
| Extraction: | | | | | 1/20/2009 | EDW |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(a)anthracene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(b)fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(k)fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(ghi)perylene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo (a)pyrene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Chrysene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dibenzo(ah)anthracene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Methylnaphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Phenanthrene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromobenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromochloromethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromodichloromethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromoform | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromomethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Butylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| sec-Butylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| tert-Butylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Carbon tetrachloride | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chlorobenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroform | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloromethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2-Chlorotoluene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 4-Chlorotoluene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromochloromethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/14/2009

Lab Sample ID: 6953-70970

Sample ID: GP-21

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis-continued from page 1** | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromoethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromomethane | ND | 100 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichlorobenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichlorobenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,4-Dichlorobenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethane | 47 | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloroethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethene | 920 | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| cis-1,2-Dichloroethene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| trans-1,2-Dichloroethene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloropropane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichloropropane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2,2-Dichloropropane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloropropene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Ethylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Hexachlorobutadiene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Isopropylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methylene chloride | ND | 100 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 100 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Propylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Styrene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Tetrachloroethene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Toluene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichlorobenzene | ND | 100 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trichlorobenzene | ND | 100 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1-Trichloroethane | 8500 | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2-Trichloroethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichloroethene | 1700 | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichlorofluoromethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichloropropane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trimethylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3,5-Trimethylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Xylenes | ND | 60 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Vinyl chloride | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 1/23/2009

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: January 16, 2009
Collection Date: January 14, 2009

Lab Sample ID: 6953-70972

Sample ID: GP-22, 26'

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide** | ND | 1 | mg/L | SW846 9010 | 1/19/2009 | LLW |
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 1/21/2009 | LLW |
| Barium | ND | 0.1 | mg/L | SW846 7081 | 1/21/2009 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 1/19/2009 | EDW |
| Chromium | ND | 0.01 | mg/L | SW846 7190 | 1/19/2009 | EDW |
| Copper | ND | 0.004 | mg/L | SW846 7210 | 1/21/2009 | EDW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/19/2009 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 1/21/2009 | LLW |
| Selenium | ND | 0.005 | mg/L | SW846 7740 | 1/21/2009 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7760 | 1/21/2009 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 1/21/2009 | EDW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromobenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromochloromethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromodichloromethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromoform | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromomethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Butylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| sec-Butylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| tert-Butylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Carbon tetrachloride | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chlorobenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroform | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloromethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2-Chlorotoluene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 4-Chlorotoluene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromochloromethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromoethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromomethane | ND | 100 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichlorobenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichlorobenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,4-Dichlorobenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethane | 160 | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloroethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethene | 210 | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| cis-1,2-Dichloroethene | 160 | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| trans-1,2-Dichloroethene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloropropane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis

Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/14/2009

Lab Sample ID: 6953-70972

Sample ID: GP-22, 26'

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continuec** | | | | | | |
| 1,1-Dichloropropene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Ethylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Hexachlorobutadiene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| p-Isopropyltoluene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methylene chloride | ND | 100 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methyl (tert) butylether (MTBE | ND | 100 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Propylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Styrene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Tetrachloroethene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Toluene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichlorobenzene | ND | 100 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trichlorobenzene | ND | 100 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1-Trichloroethane | 3500 | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2-Trichloroethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichloroethene | 1600 | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichlorofluoromethane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichloropropane | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trimethylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3,5-Trimethylbenzene | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Xylenes | ND | 30 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Vinyl chloride | ND | 20 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| **Semi-Volatile Analysis** | | | | | | |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzidine | ND | 50 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(a)anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(a)pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(b)fluoranthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(g,h,I)perylene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(k)fluoranthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-chloroethyl) ethe | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-chloroethyoxy)methane | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-chloroisopopyl) ethe | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-ethylhexyl)phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Bromophenyl phenyl ethe | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Butyl benzyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Chloro-3-methylpheno | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Chloronaphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Chloropheno | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Chlorophenyl phenyl ethe | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Chrysene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dibenzofuran | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/14/2009

Lab Sample ID: 6953-70972

Sample ID: GP-22, 26'

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **SVOA Analysis- continuec** | | | | | | |
| 2,4-Dichloropheno | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Diethyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 3,3'-Dimethylbenzidine | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4-Dimethylpheno | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dimethylphthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Di-n-butyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4,6-Dinitro-2-methylpheno | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4-Dinitropheno | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,6-Dinitrotoluene | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Di-n-octyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dibenzo(a,h)anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluoranthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachlorobenzene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachlorobutadiene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachloroethane | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Isophorone | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Methylnapthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Methylpheno | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Methylpheno | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Nitrobenzene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Nitrophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| N-Nitrosodi-n-propylamine | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Pentachloropheno | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Phenanthrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Phenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4,6-Trichloropheno | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4,5-Trichloropheno | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lori White

Date: 1/23/2009

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: January 16, 2009
Collection Date: January 14, 2009

Lab Sample ID: 6953-70971

Sample ID: GP-22, 45'

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethane | 6 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethene | 10 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| cis-1,2-Dichloroethene | 81 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| trans-1,2-Dichloroethene | 21 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| p-Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/14/2009

Lab Sample ID: 6953-70971

Sample ID: GP-22, 45'

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1-Trichloroethane | 38 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichloroethene | 560 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lori White

Date: 1/23/2009

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: January 16, 2009
Collection Date: January 14, 2009

Lab Sample ID: 6953-70974

Sample ID: GP-23, 26'

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide** | ND | 1 | mg/L | SW846 9010 | 1/19/2009 | LLW |
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 1/21/2009 | LLW |
| Barium | ND | 0.1 | mg/L | SW846 7081 | 1/21/2009 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 1/19/2009 | EDW |
| Chromium | ND | 0.01 | mg/L | SW846 7190 | 1/19/2009 | EDW |
| Copper | ND | 0.004 | mg/L | SW846 7210 | 1/21/2009 | EDW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/19/2009 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 1/21/2009 | LLW |
| Selenium | ND | 0.005 | mg/L | SW846 7740 | 1/21/2009 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7760 | 1/21/2009 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 1/21/2009 | EDW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethane | 32 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| cis-1,2-Dichloroethene | 430 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| trans-1,2-Dichloroethene | 27 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis

Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/14/2009

Lab Sample ID: 6953-70974

Sample ID: GP-23, 26'

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| p-Isopropyltoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichloroethene | 300 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| **Semi-Volatile Analysis** | | | | | | |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzidine | ND | 50 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(a)anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(a)pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(b)fluoranthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(g,h,I)perylene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(k)fluoranthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-chloroethyl) ether | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-chloroethyoxy)methane | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-chloroisopopyl) ether | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-ethylhexyl)phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Bromophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Butyl benzyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Chloro-3-methylphenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Chloronaphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Chlorophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Chlorophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Chrysene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dibenzofuran | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/14/2009

Lab Sample ID: 6953-70974

Sample ID: GP-23, 26'

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **SVOA Analysis- continued** | | | | | | |
| 2,4-Dichlorophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Diethyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 3,3'-Dimethylbenzidine | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4-Dimethylphenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dimethylphthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Di-n-butyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4,6-Dinitro-2-methylphenol | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4-Dinitrophenol | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,6-Dinitrotoluene | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Di-n-octyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dibenzo(a,h)anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluoranthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachlorobenzene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachlorobutadiene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachloroethane | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Isophorone | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Methylnapthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Methylphenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Methylphenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Nitrobenzene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Nitrophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| N-Nitrosodi-n-propylamine | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Pentachlorophenol | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Phenanthrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Phenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4,6-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4,5-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lori White

Date: 1/23/2009

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: January 16, 2009
Collection Date: January 14, 2009

Lab Sample ID: 6953-70973

Sample ID: GP-23, 35'

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| cis-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| p-Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/14/2009

Lab Sample ID: 6953-70973

Sample ID: GP-23, 35'

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lori White

Date: 1/23/2009

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: January 16, 2009
Collection Date: January 14, 2009

Lab Sample ID: 6953-70975

Sample ID: GP-24

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide** | ND | 1 | mg/L | SW846 9010 | 1/19/2009 | LLW |
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 1/21/2009 | LLW |
| Barium | ND | 0.1 | mg/L | SW846 7081 | 1/21/2009 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 1/19/2009 | LLW |
| Chromium | ND | 0.01 | mg/L | SW846 7191 | 1/19/2009 | LLW |
| Copper | ND | 0.004 | mg/L | SW846 7210 | 1/21/2009 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/19/2009 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 1/21/2009 | LLW |
| Selenium | ND | 0.005 | mg/L | SW846 7741 | 1/21/2009 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7761 | 1/21/2009 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 1/21/2009 | LLW |
| **PNA Analysis** | | | | | | |
| Extraction: | | | | | 1/20/2009 | LLW |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(a)anthracene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(b)fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(k)fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(ghi)perylene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo (a)pyrene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Chrysene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dibenzo(ah)anthracene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Methylnaphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Phenanthrene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/14/2009

Lab Sample ID: 6953-70975

Sample ID: GP-24

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis-continued from page 1** | | | | | | |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| cis-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methyene chloride | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichloroethene | 48 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- the LRL is based on MDEQ TDL, dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: _____

Date: _____

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: January 16, 2009
Collection Date: January 15, 2009

Lab Sample ID: 6953-70976

Sample ID: GP-25

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide** | ND | 1 | mg/L | SW846 9010 | 1/19/2009 | LLW |
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 1/21/2009 | LLW |
| Barium | ND | 0.1 | mg/L | SW846 7081 | 1/21/2009 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 1/19/2009 | EDW |
| Chromium | ND | 0.01 | mg/L | SW846 7190 | 1/19/2009 | EDW |
| Copper | ND | 0.004 | mg/L | SW846 7210 | 1/21/2009 | EDW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/19/2009 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 1/21/2009 | LLW |
| Selenium | ND | 0.005 | mg/L | SW846 7740 | 1/21/2009 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7760 | 1/21/2009 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 1/21/2009 | EDW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethane | 87 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| cis-1,2-Dichloroethene | 170 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| trans-1,2-Dichloroethene | 10 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/15/2009

Lab Sample ID: 6953-70976

Sample ID: GP-25

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| p-Isopropyltoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichloroethene | 240 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| **Semi-Volatile Analysis** | | | | | | |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzidine | ND | 50 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(a)anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(a)pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(b)fluoranthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(g,h,I)perylene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(k)fluoranthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-chloroethyl) ether | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-chloroethyoxy)methane | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-chloroisopopyl) ether | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-ethylhexyl)phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Bromophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Butyl benzyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Chloro-3-methylphenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Chloronaphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Chlorophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Chlorophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Chrysene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dibenzofuran | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/15/2009

Lab Sample ID: 6953-70976

Sample ID: GP-25

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **SVOA Analysis- continued** | | | | | | |
| 2,4-Dichlorophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Diethyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 3,3'-Dimethylbenzidine | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4-Dimethylphenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dimethylphthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Di-n-butyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4,6-Dinitro-2-methylphenol | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4-Dinitrophenol | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,6-Dinitrotoluene | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Di-n-octyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dibenzo(a,h)anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluoranthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachlorobenzene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachlorobutadiene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachloroethane | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Isophorone | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Methylnapthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Methylphenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Methylphenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Nitrobenzene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Nitrophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| N-Nitrosodi-n-propylamine | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Pentachlorophenol | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Phenanthrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Phenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4,6-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4,5-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lori White

Date: 1/23/2009

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981


## Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: January 16, 2009
Collection Date: January 15, 2009

Lab Sample ID: 6953-70977

Sample ID: GP-26

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Metals Analysis** | | | | | | |
| Cadmium | ND | 0.0005 | mg/L | SW846 7131 | 1/21/2009 | LLW |
| Chromium | ND | 0.005 | mg/L | SW846 7191 | 1/21/2009 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/21/2009 | LLW |
| **PNA Analysis** | | | | | | |
| Extraction: | | | | | 1/20/2009 | EDW |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(a)anthracene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(b)fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(k)fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(ghi)perylene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo (a)pyrene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Chrysene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dibenzo(ah)anthracene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Methylnaphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Phenanthrene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/15/2009

Lab Sample ID: 6953-70977

Sample ID: GP-26

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis-continued from page 1** | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| cis-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 1/23/2009

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: January 16, 2009
Collection Date: January 15, 2009

Lab Sample ID: 6953-70981

Sample ID: GP-27

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide** | ND | 1 | mg/L | SW846 9010 | 1/19/2009 | LLW |
| **Metals Analysis** | | | | | | |
| Arsenic | ND | 0.005 | mg/L | SW846 7060 | 1/21/2009 | LLW |
| Barium | ND | 0.1 | mg/L | SW846 7081 | 1/21/2009 | LLW |
| Cadmium | ND | 0.001 | mg/L | SW846 7131 | 1/19/2009 | EDW |
| Chromium | ND | 0.01 | mg/L | SW846 7190 | 1/19/2009 | EDW |
| Copper | ND | 0.004 | mg/L | SW846 7210 | 1/21/2009 | EDW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/19/2009 | LLW |
| Mercury | ND | 0.0002 | mg/L | SW846 7470 | 1/21/2009 | LLW |
| Selenium | ND | 0.005 | mg/L | SW846 7740 | 1/21/2009 | LLW |
| Silver | ND | 0.0002 | mg/L | SW846 7760 | 1/21/2009 | LLW |
| Zinc | ND | 0.05 | mg/L | SW846 7950 | 1/21/2009 | EDW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethene | 14 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| cis-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

# Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/15/2009

Lab Sample ID: 6953-70981

Sample ID: GP-27

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| p-Isopropyltoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1-Trichloroethane | 120 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichloroethene | 170 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| **Semi-Volatile Analysis** | | | | | | |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzidine | ND | 50 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(a)anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(a)pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(b)fluoranthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(g,h,I)perylene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(k)fluoranthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-chloroethyl) ether | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-chloroethyoxy)methane | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-chloroisopopyl) ether | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Bis(2-ethylhexyl)phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Bromophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Butyl benzyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Chloro-3-methylphenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Chloroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Chloronaphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Chlorophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Chlorophenyl phenyl ether | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Chrysene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dibenzofuran | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/15/2009

Lab Sample ID: 6953-70981

Sample ID: GP-27

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **SVOA Analysis- continued** | | | | | | |
| 2,4-Dichlorophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Diethyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 3,3'-Dimethylbenzidine | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4-Dimethylphenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dimethylphthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Di-n-butyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4,6-Dinitro-2-methylphenol | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4-Dinitrophenol | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,6-Dinitrotoluene | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4-Dinitrotoluene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Di-n-octyl phthalate | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dibenzo(a,h)anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluoranthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachlorobenzene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachlorobutadiene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachlorocyclopentadiene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Hexachloroethane | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Isophorone | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Methylnapthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Methylphenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Methylphenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 3-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Nitroaniline | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Nitrobenzene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Nitrophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 4-Nitrophenol | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| N-Nitrosodi-n-propylamine | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Pentachlorophenol | ND | 20 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Phenanthrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Phenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4,6-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2,4,5-Trichlorophenol | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lori White

Date: 1/23/2009

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: January 16, 2009
Collection Date: January 15, 2009

Lab Sample ID: 6953-70979

Sample ID: GP-28, 26'

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Cyanide** | ND | 1 | mg/L | SW846 9010 | 1/19/2009 | LLW |
| **Metals Analysis** | | | | | | |
| Cadmium | ND | 0.0005 | mg/L | SW846 7131 | 1/21/2009 | LLW |
| Chromium | ND | 0.005 | mg/L | SW846 7191 | 1/21/2009 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/21/2009 | LLW |
| **PNA Analysis** | | | | | | |
| Extraction: | | | | | 1/20/2009 | EDW |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(a)anthracene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(b)fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(k)fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(ghi)perylene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo (a)pyrene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Chrysene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dibenzo(ah)anthracene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Methylnaphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Phenanthrene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

# Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/15/2009

Lab Sample ID: 6953-70979

Sample ID: GP-28, 26'

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis-continued from page 1** | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethane | 23 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethene | 36 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| cis-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Tetrachloroethene | 5 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1-Trichloroethane | 540 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichloroethene | 110 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 1/23/2009

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: January 16, 2009
Collection Date: January 15, 2009

Lab Sample ID: 6953-70978

Sample ID: GP-28, 45'

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| cis-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| p-Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/15/2009

Lab Sample ID: 6953-70978

Sample ID: GP-28, 45'

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis Continued** | | | | | | |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lori White

Date: 1/23/2009

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: January 16, 2009
Collection Date: January 15, 2009

Lab Sample ID: 6953-70980

Sample ID: GP-29

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Metals Analysis** | | | | | | |
| Cadmium | ND | 0.0005 | mg/L | SW846 7131 | 1/21/2009 | LLW |
| Chromium | ND | 0.005 | mg/L | SW846 7191 | 1/21/2009 | LLW |
| Lead | ND | 0.003 | mg/L | SW846 7421 | 1/21/2009 | LLW |
| **PNA Analysis** | | | | | | |
| Extraction: | | | | | 1/20/2009 | EDW |
| Acenaphthene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Acenaphthylene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Anthracene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(a)anthracene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(b)fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(k)fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo(ghi)perylene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Benzo (a)pyrene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Chrysene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Dibenzo(ah)anthracene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluoranthene | ND | 1 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Fluorene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Indeno(1,2,3-cd)pyrene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| 2-Methylnaphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Naphthalene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Phenanthrene | ND | 2 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| Pyrene | ND | 5 | ug/L | SW846 8270 | 1/21/2009 | LLW |
| **Volatile Analysis** | | | | | | |
| Benzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromodichloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromoform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Bromomethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| sec-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| tert-Butylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Carbon tetrachloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloroform | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Chloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 4-Chlorotoluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromochloromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

US EPA ARCHIVE DOCUMENT

# Certificate of Analysis



Date: January 23, 2009

Customer: ATC Associates
46555 Humboldt Drive
Novi, MI 48375-2422

Project Name: Tecumseh Products
Project Number: 39.02922.8N01
Submit Date: 1/16/2009
Collection Date: 1/15/2009

Lab Sample ID: 6953-70980

Sample ID: GP-29

| Parameters | Result | LRL | Units | Method Reference | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Volatile Analysis-continued from page 1** | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dibromoethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Dibromomethane | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,4-Dichlorobenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| cis-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| trans-1,2-Dichloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 2,2-Dichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1-Dichloropropene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Ethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Hexachlorobutadiene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Isopropylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methylene chloride | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Methyl (tert) butylether (MTBE) | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| n-Propylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Styrene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2,2-Tetrachloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Tetrachloroethene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Toluene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trichlorobenzene | ND | 5 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,1-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,1,2-Trichloroethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichloroethene | 34 | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Trichlorofluoromethane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,3-Trichloropropane | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,2,4-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| 1,3,5-Trimethylbenzene | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Xylenes | ND | 3 | ug/L | SW846 8260 | 1/19/2009 | LLW |
| Vinyl chloride | ND | 1 | ug/L | SW846 8260 | 1/19/2009 | LLW |

Parameter- Analysis performed or the name of the chemical analyzed.
Result- The reported concentration in the sample
Analysis Date- Date the analysis was performed
LRL- Lower Reporting Limit- dilutions may affect the LRL.
Analyst- Initials of the analyst performing the analysis
Units- The unit which corresponds to the reported concentration
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 1/23/2009

US EPA ARCHIVE DOCUMENT

US EPA ARCHIVE DOCUMENT

# CHAIN OF CUSTODIES
# AND
# QUALITY ASSURANCE/QUANLITY CONTROL DOCUMENTS

US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

Phone: 734-878-3400

## CHAIN-OF-CUSTODY RECORD

FAX: 734-878-3981

CLIENT: CRC / ATC

ADDRESS: [illegible]

PROJECT NO.: [illegible]

PROJECT NAME: Tecumseh Products

PHONE NO.: [illegible]

CLIENT CONTACT: [illegible]

SAMPLER: Andy [illegible]

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): 8260 BTEX; 8270 PAHs; 2x/Lead/TCLP; EC81/EC82 PCBs; 1 WEEK TAT; 1 WEEK TAT; 48 HR RUSH; SPECIAL

| ITEM NO. | SAMPLE NUMBER | DATE | MATRIX | COMP | GRAB | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | 8260 BTEX | 8270 PAHs | 2x/Lead/TCLP | EC81/EC82 PCBs | 1 WEEK TAT | 1 WEEK TAT | 48 HR RUSH | SPECIAL | LAB # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 12/15/08 | S | | ✓ | GP-1 3-5' | 2 | | | | | | | | | 7250 |
| 2 | | 12/15/08 | S | | ✓ | GP-1 24-25' | 2 | | | | | | | | | |
| 3 | | 12/15/08 | S | | ✓ | GP-2 5-7' | 2 | | | | | | | | | |
| 4 | | 12/15/08 | S | | ✓ | GP-2 21-23' | 2 | | | | | | | | | |
| 5 | | 12/15/08 | S | | ✓ | GP-3 6-8' | 2 | | | | | | | | | 7251 |
| 6 | | 12/15/08 | S | | ✓ | GP-3 21-23' | 2 | | | | | | | | | |
| 7 | | 12/15/08 | S | | ✓ | GP-4 4-6' | 2 | | | | | | | | | 7252 |
| 8 | | 12/15/08 | S | | ✓ | GP-5 3-5' | 2 | | | | | | | | | |
| 9 | | 12/15/08 | S | | ✓ | GP-5 13-15' | 2 | | | | | | | | | |
| 10 | | 12/15/08 | S | | ✓ | GP-6 3-5' | 2 | | | | | | | | | 7253 |

| TRANS. NO. | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY | DATE | TIME |
|---|---|---|---|---|---|
| 1 | | [illegible] | [illegible] | 12-15-08 | 11:40 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

REMARKS: [illegible] <4 °C

SAMPLER'S SIGNATURE: [illegible]

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# Lakeland Laboratories, Inc.

Phone: 734-878-3400

## CHAIN-OF-CUSTODY RECORD

FAX: 734-878-3981

CLIENT: CRC/ATC

ADDRESS: [illegible]

PROJECT NO.: 629123[illegible]

PROJECT NAME: Tecumseh Products

PHONE NO.: [illegible]

CLIENT CONTACT: [illegible]

SAMPLER: [illegible]

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): 5035/8260 VOC; 8270 PNA/Phenols; 7000/6010/7000 metals; 8081/8082 PCB; 2 WEEK TAT; 1 WEEK TAT; 48 HR. RUSH; SPECIAL

| ITEM NO. | SAMPLE NUMBER | DATE | MATRIX | COMP | GRAB | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | 5035/8260 VOC | 8270 PNA/Phenols | 7000/6010/7000 metals | 8081/8082 PCB | 2 WEEK TAT | 1 WEEK TAT | 48 HR. RUSH | SPECIAL | LAB # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 12/15/08 | S | | ✓ | GP-6 13-15' | 2 | | | | | | | | | |
| 2 | | 12/16/08 | S | | ✓ | GP-7 2-4' | 2 | | | | | | | | | 7232 |
| 3 | | 12/16/08 | S | | ✓ | GP-7 8-10' | 2 | | | | | | | | | |
| 4 | | 12/16/08 | S | | ✓ | GP-8 4-5' | 2 | | | | | | | | | |
| 5 | | 12/16/08 | S | | ✓ | GP-8 24-26' | 2 | | | | | | | | | |
| 6 | | 12/16/08 | S | | ✓ | GP-9 5-7' | 2 | | | | | | | | | 7235 |
| 7 | | 12/16/08 | S | | ✓ | GP-10 2-4' | 2 | | | | | | | | | 7236 |
| 8 | | 12/16/08 | S | | ✓ | GP-10 17-19' | 2 | | | | | | | | | |
| 9 | | 12/16/08 | S | | ✓ | GP-11 3-5' | 2 | | | | | | | | | |
| 10 | | 12/16/08 | S | | ✓ | GP-11 18-20' | 2 | | | | | | | | | |

| TRANS. NO. | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY | DATE | TIME |
|---|---|---|---|---|---|
| 1 | | [illegible] | [illegible] | 12-19-08 | 11:40 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

REMARKS: ≤4°C

SAMPLER'S SIGNATURE: [illegible]

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# Lakeland Laboratories, Inc.

Phone: 734-878-3400

## CHAIN-OF-CUSTODY RECORD

FAX: 734-878-3981

CLIENT: CRC / ATC

ADDRESS: [illegible]

PROJECT NO.: 0.1922.[illegible]

PROJECT NAME: Tecumseh Products

PHONE NO.: [illegible]

CLIENT CONTACT: K. LAPAGE

SAMPLER:

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): 5035/8260 VOC; 8270 PNA/SVOC; 1,2,4 TCB; 8081/8082 PCB; 2 WEEK TAT; 1 WEEK TAT; 48 HR. RUSH; SPECIAL

| ITEM NO. | SAMPLE NUMBER | DATE | MATRIX | COMP | GRAB | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | 5035/8260 VOC | 8270 PNA/SVOC | 1,2,4 TCB | 8081/8082 PCB | | | | | | | | | LAB # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 12/11/08 | S | | ✓ | GP-12 5-7' | 2 | X | X | X | X | | | | | | | | | 70237 |
| 2 | | 12/11/08 | S | | ✓ | GP-12 17-19' | 2 | | | | | | | HOLD | | | | | | |
| 3 | | 12/11/08 | S | | ✓ | GP-13 2-4' | 2 | X | X | | | | | HOLD | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |

| TRANS. NO. | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY | DATE | TIME |
|---|---|---|---|---|---|
| 1 | | [illegible] | E White | 12/18/08 | 1140 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

REMARKS: ≤4°C

SAMPLER'S SIGNATURE: [illegible]

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# Lakeland Laboratories, Inc.

Phone: 734-878-3400

## CHAIN-OF-CUSTODY RECORD

FAX: 734-878-3981

CLIENT: CRC / ATC
ADDRESS: 100 + 101 E. PATTERSON, TECUMSEH, MI
PROJECT NO.: 02922.Bnd
PROJECT NAME: TECUMSEH PRODUCTS
PHONE NO.: (248) 669 5140
CLIENT CONTACT: K. LAFORGE
SAMPLER: ANDY RAUSER

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): VOCS 8260; PNAs (8270); SVOCs; 10 METALS (200.8/6010/7000); CA, CL, FE, PH; PCBs (8082); CYANIDE; 2 WEEK TAT; 1 WEEK TAT; 48 HR. RUSH; SPECIAL; LAB #

| ITEM NO. | SAMPLE NUMBER | DATE | MATRIX | COMP | GRAB | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | VOCS 8260 | PNAs (8270) | SVOCs | 10 METALS (200.8/6010/7000) | CA, CL, FE, PH | PCBs (8082) | CYANIDE | 2 WEEK TAT | 1 WEEK TAT | 48 HR. RUSH | SPECIAL | LAB # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 12/22/08 | S | | ✓ | GP-19 15 3-5' | 2 | X | X | X | | X | | | | | | | |
| 2 | | 12/22/08 | S | | ✓ | GP-18 14 1-3' | 2 | X | X | | X | X | | | | | | | |
| 3 | | 12/22/08 | S | | ✓ | GP-22 16 1-3' BL | 2 | X | | X | | X | X | | | | | | |
| 4 | | 12/22/08 | S | | ✓ | GP-32 17 3-5' | 2 | X | X | | X | | | | | | | | |
| 5 | | 12/22/08 | S | | ✓ | GP-33 18 3-5' | 2 | | | | | | | | HOLD | | | | |
| 6 | | 12/22/08 | S | | ✓ | GP-33 18 20-22' | 2 | | X | | | | | | | | | | |
| 7 | | 12/22/08 | S | | ✓ | GP-31 19 2-4' | 2 | | | | | | | | HOLD | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |

| TRANS. NO. | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY | DATE | TIME |
|---|---|---|---|---|---|
| 1 | | [signature] | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

REMARKS:
* PLEASE USE RADEL DETECTION LIMIT
* PLEASE ~~PLEASE~~ CALL W/ QUESTIONS

SAMPLER'S SIGNATURE: [signature]

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US EPA ARCHIVE DOCUMENT

# Lakeland Laboratories, Inc.

Phone: 734-878-3400

## CHAIN-OF-CUSTODY RECORD

FAX: 734-878-3981

CLIENT: ATC Associates / LBC

ADDRESS: 100 + 101 E Patterson, Tecumseh MI

PROJECT NO.: 02922.8N01

PROJECT NAME: Tecumseh Products

PHONE NO.: 248 669 5140

CLIENT CONTACT: K. LaBorge

SAMPLER: Andy Rauser

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): VOC's 8260 (8260/1000/7000), PNA's (8270), SVOC's (8270), 10 Mich Metals, Cd, Cr, Pb, PCB's 8081/8082, Cyanide

| ITEM NO. | SAMPLE NUMBER | DATE | MATRIX | COMP | GRAB | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | VOC's 8260 | PNA's | SVOC's | 10 Mich Metals | Cd, Cr, Pb | PCB's | Cyanide | 2 WEEK TAT | 1 WEEK TAT | 48 HR. RUSH | SPECIAL | LAB # (OH 61953) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1/14/09 | S | | X | GP-21 3-5' 0900 | 2 | X | X | | | X | | X | | | | | 70960 |
| 2 | | 1/14/09 | S | | X | GP-21 21-23' 0930 | 2 | | | | | | | HOLD | | | | | ~~70961~~ |
| 3 | | 1/14/09 | S | | X | GP-22 3-5' 1135 | 2 | | | | | | | HOLD | | | | | ~~70962~~ |
| 4 | | 1/14/09 | S | | X | GP-22 8-10' 1120 | 2 | X | X | | | X | | | | | | | 70961 |
| 5 | | 1/14/09 | S | | X | GP-23 3-5' 1345 | 2 | X | X | | | X | | | | | | | 70962 |
| 6 | | 1/14/09 | S | | X | GP-~~30~~ 24 6-8' 1615 | 2 | | | | | | | HOLD | | | | | ~~70963~~ |
| 7 | | 1/14/09 | S | | X | GP-25 1-2' 1745 | 2 | X | | X | X | | X | | | | | | 70963 |
| 8 | | 1/15/09 | S | | X | GP-26 3-5' 0945 | 2 | X | X | | | X | X | | | | | | 70964 |
| 9 | | 1/15/09 | S | | X | GP-28 3-5' 1155 | 2 | | | | | | | | | | | | 70965 |
| 10 | | 1/15/09 | S | | X | GP-28 21-23' 1215 | 2 | X | X | | | X | | | | | | | 70966 |

| TRANS. NO. | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY | DATE | TIME |
|---|---|---|---|---|---|
| 1 | | [signature] | [signature] | 1/16/09 | 9:15 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

REMARKS:
* Please use MDEQ Detection Limits.
* Call w/ Questions
4°C

SAMPLER'S SIGNATURE: [signature]

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# Lakeland Laboratories, Inc.

Phone: 734-878-3400

## CHAIN-OF-CUSTODY RECORD

FAX: 734-878-3981

| | |
|---|---|
| CLIENT: ATC Associates / CBC | ADDRESS: 100 + 101 E Patterson, Tecumseh MI |
| PROJECT NO.: 39. 02922.8N01 | PROJECT NAME: Tecumseh Products |
| PHONE NO.: 248 669 5140 | |
| CLIENT CONTACT: K. Labrge | SAMPLER: Andy Rauser |

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): VOCs 8260 (6200/7000); PNAs 8270; SVOCs (8270); 10 Mish metals (7000); Cd, Cr, Pb; PCBs 8081/8082; Cyanide; 2 WEEK TAT; 1 WEEK TAT; 48 HR. RUSH; SPECIAL

| ITEM NO. | SAMPLE NUMBER | DATE | MATRIX | COMP | GRAB | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | VOCs 8260 | PNAs SVOCs (8270) | 10 Mish metals (7000) | Cd, Cr, Pb | PCBs 8081/8082 | Cyanide | 2 WEEK TAT | 1 WEEK TAT | 48 HR. RUSH | SPECIAL | LAB # 2014 6953 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1/15/09 | S | | X | GP-29 3-5' 1430 | 2 | X | X | | X | | | | | | | 70967 |
| 2 | | 1/15/09 | S | | X | GP-29 22-24' 1445 | 2 | | | | | | | | | | | 70968 |
| 3 | | 1/15/09 | S | | X | GP-27 1-3' 1820 | 2 | X | X | X | X | | | | | | | 70969 |
| 4 | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
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| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |

| TRANS. NO. | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY | DATE | TIME |
|---|---|---|---|---|---|
| 1 | | [signature] | [signature] | 1/16/09 | 415 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

REMARKS: * Please use MDEQ Detection Limits

4°C

SAMPLER'S SIGNATURE: [signature]

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# Lakeland Laboratories, Inc.

Phone: 734-878-3400

## CHAIN-OF-CUSTODY RECORD

FAX: 734-878-3981

CLIENT: Consolidated Biscuit / Tecumseh Products

ADDRESS: 100 & 101 E Patterson Tecumseh MI

PROJECT NO.: 39.02922.8N01

PROJECT NAME: Tecumseh Products

PHONE NO.: 248 669 5740

CLIENT CONTACT: Kevin Lebarge

SAMPLER: Andy Rauser

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): PAHs (8270D) / 8081/8082 PCBs / VOCs (8260) / Cd, Cr + Pb 200.8/6010 (Pb)

| ITEM NO. | SAMPLE NUMBER | DATE | MATRIX | COMP | GRAB | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | | | | | 2 WEEK TAT | 1 WEEK TAT | 48 HR. RUSH | SPECIAL | LAB # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2/2/09 | S | | X | FB 531 6" | 2 | | X | | X X | | | | | |
| 2 | | 2/2/09 | S | | X | FB 532 6" | 2 | | | X | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |

| TRANS. NO. | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY | DATE | TIME |
|---|---|---|---|---|---|
| 1 | | [signature] | [signature] | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

REMARKS

SAMPLER'S SIGNATURE: [signature]

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# Lakeland Laboratories, Inc.

Phone: 734-878-3400

## CHAIN-OF-CUSTODY RECORD

FAX: 734-878-3981

CLIENT: CBC/ATC
ADDRESS: 100 + 101 E. PATTERSON, TECUMSEH, MI
PROJECT NO.: 390222.8N01
PROJECT NAME: Tecumseh Products
PHONE NO.: 248 669-5140
CLIENT CONTACT: K. LAFORGE
SAMPLER: ANDY RAUSER

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): 5035/8260 VOC; 8270 PNA; 200/6000/7000 metals; 8081/8082 PCB; 8270 PNAs-SVOCs; Cd, Cr, Pb 200/6000/7000; CYANIDE

| ITEM NO. | SAMPLE NUMBER | DATE | MATRIX | COMP | GRAB | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | 5035/8260 VOC | 8270 PNA | 200/6000/7000 metals | 8081/8082 PCB | 8270 PNAs-SVOCs | Cd, Cr, Pb 200/6000/7000 | CYANIDE | 2 WEEK TAT | 1 WEEK TAT | 48 HR. RUSH | SPECIAL | LAB # (6907) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 12/15/08 | W | | ✓ | GP-1 | 4 | X | | X | | X | | | | | | | 70238 |
| 2 | | 12/15/08 | W | | ✓ | GP-2 | 4 | X | X | | | | X | X | | | | | 70239 |
| 3 | | 12/15/08 | W | | ✓ | GP-3 | 4 | X | | X | | X | | X | | | | | 70240 |
| 4 | | 12/15/08 | W | | ✓ | GP-4 | 4 | X | X | | | | X | | | | | | 70241 |
| 5 | | 12/15/08 | W | | ✓ | GP-5 | 4 | X | | X | | X | | | | | | | 70242 |
| 6 | | 12/15/08 | W | | ✓ | GP-6 | 4 | X | X | | | | X | | | | | | 70243 |
| 7 | | 12/16/08 | W | | ✓ | GP-7 | 4 | X | | X | | X | | X | | | | | 70244 |
| 8 | | 12/16/08 | W | | ✓ | GP-8 | 4 | X | | | | X | X | X | | | | | 70245 |
| 9 | | 12/16/08 | W | | ✓ | GP-9 | 4 | X | X | X | | | | X | | | | | 70246 |
| 10 | | 12/16/08 | W | | ✓ | GP-10 | 4 | X | | X | | X | | X | | | | | 70247 |

| TRANS. NO. | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY | DATE | TIME |
|---|---|---|---|---|---|
| 1 | | K. Laforge | E Where | 12-18-08 | 1:40 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

REMARKS: ≤4°C

SAMPLER'S SIGNATURE:

WHITE COPY - ORIGINAL  CANARY COPY - LAB  PINK COPY - CLIENT

# Lakeland Laboratories, Inc.

Phone: 734-878-3400 FAX: 734-878-3981

## CHAIN-OF-CUSTODY RECORD

CLIENT: CBC/ATC
ADDRESS: 100 + 101 E. PATTERSON, TECUMSEH, MI
PROJECT NO.: 39. 02922.8N01
PROJECT NAME: Tecumseh Products
PHONE NO.: 248 669-5140
CLIENT CONTACT: K. LAPORGE
SAMPLER: ANDY RAMSER

| ITEM NO. | SAMPLE NUMBER | DATE | MATRIX | COMP | GRAB | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | 5035/8260 VOC | 8270 PNA's/TOC | 200/6000/7000 metals | 8081/8082 PCB | 8270 SVOCs | 200/6000/7000 Cd, Cr + Pb | CYANIDE | 2 WEEK TAT | 1 WEEK TAT | 48 HR. RUSH | SPECIAL | LAB # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 12/16/08 | W | | ✓ | GP-11 | 4 | X | | X | | X | | X | | | X | | 70248 |
| 2 | | 12/16/08 | W | | ✓ | GP-12 | 4 | X | | X | | X | | X | | | | | 70249 |
| 3 | | 12/16/08 | W | | ✓ | GP-13 | 4 | X | X | X | | | | | | | | | 70250 |
| 4 | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |

| TRANS. NO. | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY | DATE | TIME |
|---|---|---|---|---|---|
| 1 | | K. Antony | E White | 12-18-08 | 11:40 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

REMARKS: ≤4°C

SAMPLER'S SIGNATURE:

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# Lakeland Laboratories, Inc.

Phone: 734-878-3400

## CHAIN-OF-CUSTODY RECORD

FAX: 734-878-3981

CLIENT: CRC / ATC

ADDRESS: 100 + 101 E Patterson, Tecumseh MI

PROJECT NO.: 02922.8N01

PROJECT NAME: Tecumseh Products

PHONE NO.: 248 669 5140

CLIENT CONTACT: K. LaForge

SAMPLER: Andy Rauser

| ITEM NO. | SAMPLE NUMBER | DATE | MATRIX | COMP | GRAB | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | VOC's 8260 | PNA's | SVOCs (8270) | 10 Mich Metals (200/6000/7000) | Cd, Cr, Pb | PCB's (8081/8082) | Cyanide | 2 WEEK TAT | (WEEK TAT) | 48 HR. RUSH | SPECIAL | LAB # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 12/22/08 | W | | ✓ | GP-~~19~~ 15 | 5 | X | X | | | X | | | | | | | 70381 |
| 2 | | 12/22/08 | W | | ✓ | GP-~~18~~ 14 | 5 | X | X | | | X | | | | | | | 70382 |
| 2 | | 12/22/08 | W | | ✓ | GP-~~27~~ 16 K.L | 5 | X | | X | X | | | X | | | | | | 70383 |
| 4 | | 12/22/08 | W | | ✓ | GP-~~32~~ 17 | 5 | X | | X | X | | | X | | | | | | 70384 |
| 5 | | 12/22/08 | W | | ✓ | GP-~~33~~ 18 | 5 | X | X | | | X | X | | | | | | | 70385 |
| 6 | | 12/22/08 | W | | ✓ | GP-~~31~~ 19 | 5 | X | X | | | X | | | | | | | | 70386 |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |

2072
6922

| TRANS. NO. | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY | DATE | TIME |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

REMARKS
* Please use MDEQ Detection Limits
* Call w/ Questions

SAMPLER'S SIGNATURE:

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# Lakeland Laboratories, Inc.

Phone: 734-878-3400

## CHAIN-OF-CUSTODY RECORD

FAX: 734-878-3981

CLIENT: ATC Associates / CBC
ADDRESS: 100 + 101 E Patterson, Tecumseh MI
PROJECT NO.: 39. 02922.8N01
PROJECT NAME: Tecumseh Products
PHONE NO.: 248 669 5140
CLIENT CONTACT: K. Laforge
SAMPLER: Andy Rauser

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): VOC's 8260; PNA's (8270); SVOC's; 10 Mich metals (200/6000/7000); Cd, Cr, Pb; PCB's (8081/8082); Cyanide; 2 WEEK TAT; 1 WEEK TAT; 48 HR. RUSH; SPECIAL

| ITEM NO. | SAMPLE NUMBER | DATE | MATRIX | COMP | GRAB | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | VOC's 8260 | PNA's (8270) | SVOC's | 10 Mich metals (200/6000/7000) | Cd, Cr, Pb | PCB's (8081/8082) | Cyanide | 2 WEEK TAT | 1 WEEK TAT | 48 HR. RUSH | SPECIAL | LAB # 3014 6953 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1/14/09 | W | | X | GP-21 | 5 | X | X | | | X | | | | | | | 70970 |
| 2 | | 1/14/09 | W | | X | GP-22 45' | 5 | X | ~~X~~ | ~~X~~ | | | ~~X~~ | R.C. | | | | | 70971 |
| 3 | | 1/14/09 | W | | X | GP-22 26' | 5 | X | X | X | | | X | | | | | | 70972 |
| 4 | | 1/14/09 | W | | X | GP-23 35' | 5 | X | | | | | | | | | | | 70973 |
| 5 | | 1/14/09 | W | | X | GP-23 26' | 5 | X | X | X | | | X | | | | | | 70974 |
| 6 | | 1/14/09 | W | | X | GP-~~30~~24 | 5 | X | X | X | | | X | | | | | | 70975 |
| 7 | | 1/15/09 | W | | X | GP-25 | 5 | X | X | X | | | X | | | | | | 70976 |
| 8 | | 1/15/09 | W | | X | GP-26 | 5 | X | X | | | X | | | | | | | 70977 |
| 9 | | 1/15/09 | W | | X | GP-28 45' | 5 | X | | | | | | | | | | | 70978 |
| 10 | | 1/15/09 | W | | X | GP-28 26' | 5 | X | X | | | X | X | | | | | | 70979 |

| TRANS. NO. | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY | DATE | TIME |
|---|---|---|---|---|---|
| 1 | | [signature] | [signature] | 1/16/09 | 4:15 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

REMARKS: * Please use MDEQ Detection Limits. -40 C

SAMPLER'S SIGNATURE: [signature]

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# Lakeland Laboratories, Inc.

Phone: 734-878-3400

## CHAIN-OF-CUSTODY RECORD

FAX: 734-878-3981

CLIENT: ATC Associates / CBC

ADDRESS: 100 + 101 E Patterson, Tecumseh MI

PROJECT NO.: 39. 02922.8N01

PROJECT NAME: Tecumseh Products

PHONE NO.: 248 669 5140

CLIENT CONTACT: K Laforge

SAMPLER: Andy Rauser

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): VOC's 8260 (6000/7000); PNA's; SVOC's (8270); 10 mich metals (200/6000/7000); Cd, Cr, Pb; PCB's 8081/8082; Cyanide; 2 WEEK TAT; 1 WEEK TAT; 48 HR. RUSH; SPECIAL

| ITEM NO. | SAMPLE NUMBER | DATE | MATRIX | COMP | GRAB | SAMPLE DESCRIPTION | NUMBER OF CONTAINERS | VOC's 8260 | PNA's | SVOC's (8270) | 10 mich metals | Cd, Cr, Pb | PCB's 8081/8082 | Cyanide | 2 WEEK TAT | 1 WEEK TAT | 48 HR. RUSH | SPECIAL | LAB # (404 6953) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1/15/09 | W | | X | GP-29 | 5 | X | X | | X | | | | | | | | 70980 |
| 2 | | 1/15/09 | W | | X | GP-27 | 5 | X | | X | X | | X | | | | | | 70981 |
| 3 | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |

| TRANS. NO. | ITEM NUMBER | TRANSFERS RELINQUISHED BY | TRANSFERS ACCEPTED BY | DATE | TIME |
|---|---|---|---|---|---|
| 1 | | [signature] | [signature] | 1/16/09 | 4:16 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

REMARKS: * Please use MDEQ Detection Limits ≤ 40

SAMPLER'S SIGNATURE: [signature]

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# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Volatile (Method 8260) Batch Quality Control

Batch ID: 12/17/08

| Compound | Method Blank ug/L | Method Std % Rec. | Observed Value 1 | Observed Value 2 | Spike Conc. ug/L | Sample Result | Foritifed Sample Result |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 100.1 | 22.1 | 20.8 | 20 | 0 | 22.1 |
| Trichloroethene | ND | 102.7 | 18.1 | 18.1 | 20 | 0 | 18.1 |
| Chlorobenzene | ND | 105.7 | 21.1 | 19.9 | 20 | 0 | 21.1 |
| Benzene | ND | 92.1 | 17.6 | 19.7 | 20 | 0 | 17.6 |
| Toluene | ND | 94.8 | 18.8 | 18.5 | 20 | 0 | 18.8 |
| Ethylbenzene | ND | 106 | 20.1 | 19.2 | 20 | 0 | 20.1 |
| Xylene | ND | 111 | 62.4 | 60.3 | 60 | 0 | 62.4 |
| 1,2,4-Trimethylbenzene | ND | 109 | 20.8 | 20.5 | 20 | 0 | 20.8 |
| 1,3,5-Trimethylbenzene | ND | 98.5 | 17.8 | 17.4 | 20 | 0 | 17.8 |
| 1,2-Dichloroethane | ND | 96.5 | 17.4 | 17.6 | 20 | 0 | 17.4 |
| 1,2-Dibromoethane | ND | 106.8 | 17.4 | 17.7 | 20 | 0 | 17.4 |

| | Precision | | | Accuracy | | | |
|---|---|---|---|---|---|---|---|
| Compound | %RD | Upper Control Limit | Pass/Fail | % Rec | Lower Contol Limit | Upper Control Limit | Pass/Fail |
| 1,1-Dichloroethene | 6 | 20 | Pass | 110.5 | 80 | 120 | Pass |
| Trichloroethene | 0.1 | 20 | Pass | 90.6 | 80 | 120 | Pass |
| Chlorobenzene | 6.2 | 20 | Pass | 106 | 80 | 120 | Pass |
| Benzene | 11.1 | 20 | Pass | 88 | 80 | 120 | Pass |
| Toluene | 1.7 | 20 | Pass | 94.1 | 80 | 120 | Pass |
| Ethylbenzene | 4.7 | 20 | Pass | 101 | 80 | 120 | Pass |
| Xylene | 3.5 | 20 | Pass | 104 | 80 | 120 | Pass |
| 1,2,4-Trimethylbenzene | 1.7 | 20 | Pass | 104 | 80 | 120 | Pass |
| 1,3,5-Trimethylbenzene | 2.3 | 20 | Pass | 89 | 80 | 120 | Pass |
| 1,2-Dichloroethane | 1.1 | 20 | Pass | 87 | 80 | 120 | Pass |
| 1,2-Dibromoethane | 2 | 20 | Pass | 86.9 | 80 | 120 | Pass |

% Rec- (Percent Recovery) calculation: 100*(Fortified sample result- Sample result)/Spike Conc.
%RD- (Percent Relative Deviation) calculation:

$$\text{Absolute value of: } \frac{200*(\text{observed value 1- observed value 2})}{\text{Average of observed value 1 and observed value 2}}$$

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Semi-Volatile (Method 8270) Batch Quality Control

Batch ID: 12/20/08

| Compound | Method Blank ug/L | Method Std % Rec. | Observed Value 1 | Observed Value 2 | Spike Conc. ug/L | Sample Result | Foritifed Sample Result |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 76.8% | 46.3 | 43.6 | 50 | 0 | 46.3 |
| 4-Chloro3-methylphenol | ND | 88.0% | 51.5 | 48.1 | 50 | 0 | 51.5 |
| 2-Chlorophenol | ND | 90.5% | 49.2 | 47.1 | 50 | 0 | 49.2 |
| 1,4-Dichlorobenzene | ND | 91.7% | 57.1 | 55.1 | 50 | 0 | 57.1 |
| 2,4-Dinitrotoluene | ND | 76.6% | 36.4 | 38.6 | 50 | 0 | 36.4 |
| 4-Nitrophenol | ND | 79.5% | 38.5 | 37.4 | 50 | 0 | 38.5 |
| N-Nitroso-di-n-propylami | ND | 77.4% | 33.6 | 36.5 | 50 | 0 | 33.6 |
| Pentachlorophenol | ND | 78.5% | 36.1 | 37.6 | 50 | 0 | 36.1 |
| Phenol | ND | 106% | 52.7 | 50.1 | 50 | 0 | 52.7 |
| Pyrene | ND | 91.5% | 44.9 | 45.6 | 50 | 0 | 44.9 |
| 1,2,4-Trichlorobenzene | ND | 73.7% | 35.9 | 37.8 | 50 | 0 | 35.9 |
| | | 69.4% | | | | | |

| | Precision | | | Accuracy | | | |
|---|---|---|---|---|---|---|---|
| Compound | %RD | Upper Control Limit | Pass/Fail | % Rec | Lower Contol Limit | Upper Control Limit | Pass/Fail |
| Acenaphthene | 6.0 | 25 | Pass | 92.5 | 35 | 145 | Pass |
| 4-Chloro3-methylphenol | 6.7 | 25 | Pass | 103 | 35 | 145 | Pass |
| 2-Chlorophenol | 4.3 | 25 | Pass | 98.4 | 35 | 145 | Pass |
| 1,4-Dichlorobenzene | 3.6 | 25 | Pass | 114 | 35 | 145 | Pass |
| 2,4-Dinitrotoluene | 5.7 | 25 | Pass | 72.8 | 35 | 145 | Pass |
| 4-Nitrophenol | 3.0 | 25 | Pass | 77.0 | 35 | 145 | Pass |
| N-Nitroso-di-n-propylami | 8.5 | 25 | Pass | 67.1 | 35 | 145 | Pass |
| Pentachlorophenol | 3.8 | 25 | Pass | 72.3 | 35 | 145 | Pass |
| Phenol | 5.0 | 25 | Pass | 105 | 35 | 145 | Pass |
| Pyrene | 1.7 | 25 | Pass | 89.8 | 35 | 145 | Pass |
| 1,2,4-Trichlorobenzene | 5.2 | 25 | Pass | 71.8 | 35 | 145 | Pass |

% Rec- (Percent Recovery) calculation: 100*(Fortified sample result- Sample result)/Spike Conc.

%RD- (Percent Relative Deviation) calculation:

$$\text{Absolute value of: } \frac{200*(\text{observed value 1- observed value 2})}{\text{Average of observed value 1 and observed value 2}}$$

# Lakeland Laboratories, Inc.

Metals Batch Quality Control Report

**Metals Batch Quality Control** Batch ID: 010509-1

| Metal | MBlk | Method Standard | | | Matrix Spike/Matrix Spike Duplicate | | | |
|---|---|---|---|---|---|---|---|---|
| | | Spk Conc | Conc | %Rec. | Spk Conc | Smp Conc | MS | MSD |
| Arsenic | ND | 50 | 47.7 | 95.4 | 25 | 12 | 32.14 | 30 |
| Barium | ND | 200 | 208.8 | 104.4 | 200 | 26 | 204.9 | 202.6 |
| Cadmium | ND | 2.5 | 2.51 | 100.4 | 3 | 0 | 3.15 | 3.46 |
| Chromium | ND | 20 | 18.76 | 93.8 | 20 | 0.76 | 22.68 | 23.44 |
| Copper | ND | 20 | 22.01 | 110.1 | 20 | 1.2 | 24.38 | 26.17 |
| Lead | ND | 20 | 19.49 | 97.5 | 10 | 5.31 | 15.68 | 17.26 |
| Mercury | ND | 2.5 | 2.64 | 105.6 | 5 | 0 | 5.01 | 4.66 |
| Selenium | ND | 25 | 23.46 | 93.8 | 25 | 17.9 | 39.1 | 42.1 |
| Silver | ND | 1 | 0.99 | 99.0 | 1 | 0 | 0.92 | 0.92 |
| Zinc | ND | 50 | 54.01 | 108.0 | 50 | 1.66 | 50.06 | 49 |
| Iron | ND | | NA | | | 0 | NA | NA |
| Nickel | ND | | NA | | | 0 | NA | NA |
| | ND | | NA | | | 0 | NA | NA |
| | ND | | NA | | | 0 | NA | NA |
| | ND | | NA | | | 0 | NA | NA |

Note: NA-Not Applicable, spike not required for QC sample batch 1

Note: All Concentrations expressed as mg/L

| Metals | Accuracy | | | | | Precision | | |
|---|---|---|---|---|---|---|---|---|
| | QA/QC Limits | | MS | MSD | Pass | QC Limit | | Pass |
| | Lower | Upper | %Rec | %Rec | Fail | Upper | %RD | Fail |
| Arsenic | 80 | 120 | 80.6 | 72.0 | Pass | 20 | 6.9 | Pass |
| Barium | 80 | 120 | 89.5 | 88.3 | Pass | 20 | 1.1 | Pass |
| Cadmium | 80 | 120 | 105.0 | 115.3 | Pass | 20 | 9.4 | Pass |
| Chromium | 80 | 120 | 109.6 | 113.4 | Pass | 20 | 3.3 | Pass |
| Copper | 80 | 120 | 115.9 | 124.9 | Pass | 20 | 7.1 | Pass |
| Lead | 80 | 120 | 103.7 | 119.5 | Pass | 20 | 9.6 | Pass |
| Mercury | 80 | 120 | 100.2 | 93.2 | Pass | 20 | 7.2 | Pass |
| Selenium | 80 | 120 | 84.8 | 96.8 | Pass | 20 | 7.4 | Pass |
| Silver | 80 | 120 | 92.0 | 92.0 | Pass | 20 | 0.0 | Pass |
| Zinc | 80 | 120 | 96.8 | 94.7 | Pass | 20 | 2.1 | Pass |
| Iron | 80 | 120 | | | | 20 | | |
| Nickel | 80 | 120 | | | | 20 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | | | |
|---|---|---|---|
| MBlk | Method Blank | Percent Recovery/%Rec | =MStd*100/Spk Conc |
| MStd | Method Standard | Percent Relative Deviation (%RD) | =200(MS-MSD)/(MS+MDS) |
| MS | Matrix Spike | | |
| MSD | Matrix Spike Duplicate | Note: Sample Conc. reported as "0" if below DL | |

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## PNA (Method 8270) Batch Quality Control

Batch ID: 12/30/2008

| Compound | Method Blank ug/L | Method Std % Rec. | Observed Value 1 | Observed Value 2 | Spike Conc. ug/L | Sample Result | Foritifed Sample Result |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 104 | 51.5 | 51.5 | 50 | 0 | 51.5 |
| Acenaphthylene | ND | 103 | 52.0 | 51.3 | 50 | 0 | 52.0 |
| Anthracene | ND | 105 | 52.6 | 51.9 | 50 | 0 | 52.6 |
| Benzo(a)anthracene | ND | 68.0 | 30.9 | 33.0 | 50 | 0 | 30.9 |
| Benzo(b)fluroanthene | ND | 90 | 55.4 | 50.1 | 50 | 0 | 55.4 |
| Benzo(k)fluoranthene | ND | 115 | 55.2 | 56.5 | 50 | 0 | 55.2 |
| Benzo(ghi)perylene | ND | 92.2 | 44.6 | 46.4 | 50 | 0 | 44.6 |
| Benzo (a)pyrene | ND | 111.4 | 51.3 | 52.6 | 50 | 0 | 51.3 |
| Chrysene | ND | 116.7 | 46.2 | 43.4 | 50 | 0 | 46.2 |
| Dibenzo(ah)anthracene | ND | 100.1 | 46.8 | 45.7 | 50 | 0 | 46.8 |
| Fluroanthene | ND | 80.5 | 36.4 | 36.3 | 50 | 0 | 36.4 |
| Fluorene | ND | 112 | 55.5 | 55.7 | 50 | 0 | 55.5 |
| Indeno(1,2,3-cd)pyrene | ND | 107 | 46.2 | 48.0 | 50 | 0 | 46.2 |
| Naphthalene | ND | 85.3 | 42.8 | 43.6 | 50 | 0 | 42.8 |
| Phenanthrene | ND | 107 | 53.5 | 58.2 | 50 | 0 | 53.5 |
| Pyrene | ND | 86 | 36.6 | 35.6 | 50 | 0 | 36.6 |

| | Precision | | | Accuracy | | | |
|---|---|---|---|---|---|---|---|
| Compound | %RD | Upper Control Limit | Pass/Fail | % Rec | Lower Contol Limit | Upper Control Limit | Pass/Fail |
| Acenaphthene | 0.1 | 25 | Pass | 103 | 40 | 135 | Pass |
| Acenaphthylene | 1.4 | 25 | Pass | 104 | 40 | 135 | Pass |
| Anthracene | 1.2 | 25 | Pass | 105 | 40 | 135 | Pass |
| Benzo(a)anthracene | 6.6 | 25 | Pass | 61.8 | 40 | 135 | Pass |
| Benzo(b)fluoranthene | 10.1 | 25 | Pass | 110.8 | 40 | 135 | Pass |
| Benzo(k)fluoranthene | 2.2 | 25 | Pass | 110 | 40 | 135 | Pass |
| Benzo(ghi)perylene | 3.8 | 25 | Pass | 89.3 | 40 | 135 | Pass |
| Benzo (a)pyrene | 3 | 25 | Pass | 102.6 | 40 | 135 | Pass |
| Chrysene | 6.2 | 25 | Pass | 92.4 | 40 | 135 | Pass |
| Dibenzo(ah)anthracene | 2 | 25 | Pass | 93.6 | 40 | 135 | Pass |
| Fluroanthene | 0.3 | 25 | Pass | 72.8 | 40 | 135 | Pass |
| Fluorene | 0.4 | 25 | Pass | 111 | 40 | 135 | Pass |
| Indeno(1,2,3-cd)pyrene | 4.0 | 25 | Pass | 92.3 | 40 | 135 | Pass |
| Naphthalene | 1.8 | 25 | Pass | 85.6 | 40 | 135 | Pass |
| Phenanthrene | 8.4 | 25 | Pass | 107 | 40 | 135 | Pass |
| Pyrene | 2.9 | 25 | Pass | 73.2 | 40 | 135 | Pass |

% Rec- (Percent Recovery) calculation: 100*(Fortified sample result- Sample result)/Spike Conc.
%RD- (Percent Relative Deviation) calculation:

$$\text{Absolute value of: } \frac{200*(\text{observed value 1- observed value 2})}{\text{Average of observed value 1 and observed value 2}}$$

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Volatile (Method 8260) Batch Quality Control

Batch ID: 12/28/08

| Compound | Method Blank ug/L | Method Std % Rec. | Observed Value 1 | Observed Value 2 | Spike Conc. ug/L | Sample Result | Foritifed Sample Result |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 110 | 21.3 | 21.3 | 20 | 0 | 21.3 |
| Trichloroethene | ND | 83.1 | 16.6 | 19.7 | 20 | 0 | 16.6 |
| Chlorobenzene | ND | 106 | 21.3 | 19.1 | 20 | 0 | 21.3 |
| Benzene | ND | 99.3 | 16.6 | 18.6 | 20 | 0 | 16.6 |
| Toluene | ND | 100 | 19.9 | 17.2 | 20 | 0 | 19.9 |
| Ethylbenzene | ND | 96.1 | 19.7 | 17.8 | 20 | 0 | 19.7 |
| Xylene | ND | 101 | 60.4 | 55.3 | 60 | 0 | 60.4 |
| 1,2,4-Trimethylbenzene | ND | 104 | 21.8 | 19.0 | 20 | 0 | 21.8 |
| 1,3,5-Trimethylbenzene | ND | 93.0 | 19.9 | 18.8 | 20 | 0 | 19.9 |
| 1,2-Dichloroethane | ND | 81.0 | 17.1 | 19.6 | 20 | 0 | 17.1 |
| 1,2-Dibromoethane | ND | 112 | 21.3 | 19.2 | 20 | 0 | 21.3 |

| | Precision | | | Accuracy | | | |
|---|---|---|---|---|---|---|---|
| Compound | %RD | Upper Control Limit | Pass/Fail | % Rec | Lower Contol Limit | Upper Control Limit | Pass/Fail |
| 1,1-Dichloroethene | 0 | 20 | Pass | 106.7 | 80 | 120 | Pass |
| Trichloroethene | 17.1 | 20 | Pass | 82.9 | 80 | 120 | Pass |
| Chlorobenzene | 10.9 | 20 | Pass | 106.6 | 80 | 120 | Pass |
| Benzene | 11.7 | 20 | Pass | 82.8 | 80 | 120 | Pass |
| Toluene | 14.6 | 20 | Pass | 99.5 | 80 | 120 | Pass |
| Ethylbenzene | 10.0 | 20 | Pass | 98.4 | 80 | 120 | Pass |
| Xylene | 8.9 | 20 | Pass | 100.7 | 80 | 120 | Pass |
| 1,2,4-Trimethylbenzene | 13.7 | 20 | Pass | 109.0 | 80 | 120 | Pass |
| 1,3,5-Trimethylbenzene | 5.7 | 20 | Pass | 99.3 | 80 | 120 | Pass |
| 1,2-Dichloroethane | 13.6 | 20 | Pass | 85.3 | 80 | 120 | Pass |
| 1,2-Dibromoethane | 10.7 | 20 | Pass | 107 | 80 | 120 | Pass |

% Rec- (Percent Recovery) calculation: 100*(Fortified sample result- Sample result)/Spike Conc.
%RD- (Percent Relative Deviation) calculation:

$$\text{Absolute value of: } \frac{200*(\text{observed value 1- observed value 2})}{\text{Average of observed value 1 and observed value 2}}$$

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## Lakeland Laboratories, Inc.

Batch Quality Control Report

Representative Batch Quality Control

## PCB Analysis

| | |
|---|---|
| Method Reference: | SW846 7421 |
| Spike Sample ID: | 67889-68884 |
| Batch ID | 122908-1 |

| | | | |
|---|---|---|---|
| Date of Analysis: | 12/29/2008 | Correlation Coeff: | 0.9997 |
| Analyst: | LLW | Method Blank (mg/L) | ND |
| Det Level (mg/L): | 0.050 | Method Std (% Rec) | 105.8 |

| Precision* | | Accuracy** | |
|---|---|---|---|
| Quality Control Limits: | <20% | Fortified Concentration: | 2.00 |
| Observed Value 1 (mg/L): | 5.30 | Background Conc (mg/L): | 0.00 |
| Observed Value 2 (mg/L): | 4.61 | Quality Control Limits: | >80,<120 |
| Percent Relative Deviation: | 14 | Percent Recovery: | 106.0 |

Comments: _____

* Percent Relative Deviation: 200(Observed 1 - Observed 2)/(Observed 1 + Observed 2)

** Percent Recovery: 100(Observed 1 - Sample Background)/Fortified Concentration

Quality control level of Correlation Coefficient is >0.995

# Lakeland Laboratories, Inc.

Metals Batch Quality Control Report

**Metals Batch Quality Control** Batch ID: 011909-1

| Metal | MBlk | Method Standard | | | Matrix Spike/Matrix Spike Duplicate | | | |
|---|---|---|---|---|---|---|---|---|
| | | Spk Conc | Conc | %Rec. | Spk Conc | Smp Conc | MS | MSD |
| Arsenic | ND | 50 | 50.22 | 100.4 | 50 | 0 | 45.24 | 45.11 |
| Barium | ND | 250 | 224 | 89.6 | 250 | 0 | 216.7 | 207.2 |
| Cadmium | ND | 2.5 | 2.29 | 91.6 | 50 | 0 | 42.92 | 38.21 |
| Chromium | ND | 20 | 18.92 | 94.6 | 20 | 0 | 17.43 | 17.11 |
| Copper | ND | | NA | | | 0 | NA | NA |
| Lead | ND | 10 | 10.30 | 103.0 | 10 | 1.15 | 11.42 | 10.84 |
| Mercury | ND | 2.5 | 2.28 | 91.2 | 5 | 0 | 4.77 | 4.73 |
| Selenium | ND | 25 | 24.76 | 99.0 | 25 | 5.21 | 30.88 | 26.15 |
| Silver | ND | 2 | 1.87 | 93.5 | 2 | 0 | 1.76 | 1.7 |
| Zinc | ND | | NA | | | 0 | NA | NA |
| Iron | | | NA | | | 0 | NA | NA |
| Nickel | | | NA | | | 0 | NA | NA |
| | | | NA | | | 0 | NA | NA |
| | | | NA | | | 0 | NA | NA |
| | | | NA | | | 0 | NA | NA |

Note: NA-Not Applicable, spike not required for QC sample batch 1

Note: All Concentrations expressed as mg/L

| Metals | Accuracy | | | | | Precision | | |
|---|---|---|---|---|---|---|---|---|
| | QA/QC Limits | | MS | MSD | Pass | QC Limit | | Pass |
| | Lower | Upper | %Rec | %Rec | Fail | Upper | %RD | Fail |
| Arsenic | 80 | 120 | 90.5 | 90.2 | Pass | 20 | 0.3 | Pass |
| Barium | 80 | 120 | 86.7 | 82.9 | Pass | 20 | 4.5 | Pass |
| Cadmium | 80 | 120 | 85.8 | 76.4 | Pass | 20 | 11.6 | Pass |
| Chromium | 80 | 120 | 87.2 | 85.6 | Pass | 20 | 1.9 | Pass |
| Copper | 80 | 120 | | | | 20 | | |
| Lead | 80 | 120 | 102.7 | 96.9 | Pass | 20 | 5.2 | Pass |
| Mercury | 80 | 120 | 95.4 | 94.6 | Pass | 20 | 0.8 | Pass |
| Selenium | 80 | 120 | 102.7 | 83.8 | Pass | 20 | 16.6 | Pass |
| Silver | 80 | 120 | 88.0 | 85.0 | Pass | 20 | 3.5 | Pass |
| Zinc | 80 | 120 | | | | 20 | | |
| Iron | 80 | 120 | | | | 20 | | |
| Nickel | 80 | 120 | | | | 20 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | | | |
|---|---|---|---|
| MBlk | Method Blank | Percent Recovery/%Rec | =MStd*100/Spk Conc |
| MStd | Method Standard | Percent Relative Deviation | =200(MS-MSD)/(MS+MDS) |
| MS | Matrix Spike | (%RD) | |
| MSD | Matrix Spike Duplicate | Note: Sample Conc. reported as "0" if below DL | |

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Semi-Volatile (Method 8270) Batch Quality Control

Batch ID: 01/21/09

| Compound | Method Blank ug/L | Method Std % Rec. | Observed Value 1 | Observed Value 2 | Spike Conc. ug/L | Sample Result | Foritifed Sample Result |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 108.3% | 49.3 | 48.4 | 50 | 0 | 49.3 |
| 4-Chloro3-methylphenol | ND | 104% | 45.5 | 41.9 | 50 | 0 | 45.5 |
| 2-Chlorophenol | ND | 112.6% | 48.6 | 51.2 | 50 | 0 | 48.6 |
| 1,4-Dichlorobenzene | ND | 109% | 50.6 | 49.6 | 50 | 0 | 50.6 |
| 2,4-Dinitrotoluene | ND | 115.3% | 51.8 | 43.7 | 50 | 0 | 51.8 |
| 4-Nitrophenol | ND | 67.5% | 54.3 | 48.9 | 50 | 0 | 54.3 |
| N-Nitroso-di-n-propylami | ND | 84.4% | 55.4 | 52.5 | 50 | 0 | 55.4 |
| Pentachlorophenol | ND | 85.3% | 50.7 | 48.7 | 50 | 0 | 50.7 |
| Phenol | ND | 106.9% | 50.3 | 55.9 | 50 | 0 | 50.3 |
| Pyrene | ND | 80.5% | 34.5 | 36.2 | 50 | 0 | 34.5 |
| 1,2,4-Trichlorobenzene | ND | 99% | 42.0 | 38.9 | 50 | 0 | 42.0 |

| | Precision | | | Accuracy | | | |
|---|---|---|---|---|---|---|---|
| Compound | %RD | Upper Control Limit | Pass/Fail | % Rec | Lower Contol Limit | Upper Control Limit | Pass/Fail |
| Acenaphthene | 2 | 25 | Pass | 98.7 | 35 | 145 | Pass |
| 4-Chloro3-methylphenol | 8 | 25 | Pass | 90.9 | 35 | 145 | Pass |
| 2-Chlorophenol | 5.2 | 25 | Pass | 97.2 | 35 | 145 | Pass |
| 1,4-Dichlorobenzene | 2 | 25 | Pass | 101.2 | 35 | 145 | Pass |
| 2,4-Dinitrotoluene | 17 | 25 | Pass | 103.7 | 35 | 145 | Pass |
| 4-Nitrophenol | 10.4 | 25 | Pass | 108.6 | 35 | 145 | Pass |
| N-Nitroso-di-n-propylami | 5 | 25 | Pass | 110.8 | 35 | 145 | Pass |
| Pentachlorophenol | 4 | 25 | Pass | 101.4 | 35 | 145 | Pass |
| Phenol | 11 | 25 | Pass | 100.6 | 35 | 145 | Pass |
| Pyrene | 4.8 | 25 | Pass | 69.0 | 35 | 145 | Pass |
| 1,2,4-Trichlorobenzene | 7 | 25 | Pass | 84 | 35 | 145 | Pass |

% Rec- (Percent Recovery) calculation: 100*(Fortified sample result- Sample result)/Spike Conc.
%RD- (Percent Relative Deviation) calculation:

$$\text{Absolute value of: } \frac{200*(\text{observed value 1- observed value 2})}{\text{Average of observed value 1 and observed value 2}}$$

# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

## Volatile (Method 8260) Batch Quality Control

Batch ID: 01/19/09

| Compound | Method Blank ug/L | Method Std % Rec. | Observed Value 1 | Observed Value 2 | Spike Conc. ug/L | Sample Result | Foritifed Sample Result |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 94 | 19.8 | 20.7 | 20 | 0 | 19.8 |
| Trichloroethene | ND | 97.6 | 22.9 | 21.2 | 20 | 0 | 22.9 |
| Chlorobenzene | ND | 89.6 | 17.4 | 17.9 | 20 | 0 | 17.4 |
| Benzene | ND | 90.0 | 19.7 | 19.4 | 20 | 0 | 19.7 |
| Toluene | ND | 93 | 20.0 | 21.8 | 20 | 0 | 20.0 |
| Ethylbenzene | ND | 91 | 19.0 | 17.9 | 20 | 0 | 19.0 |
| Xylene | ND | 89.1 | 59.8 | 60.8 | 60 | 0 | 59.8 |
| 1,2,4-Trimethylbenzene | ND | 102.9 | 20.8 | 19.8 | 20 | 0 | 20.8 |
| 1,3,5-Trimethylbenzene | ND | 102.2 | 21.5 | 21.6 | 20 | 0 | 21.5 |
| 1,2-Dichloroethane | ND | 91.4 | 19.6 | 19.3 | 20 | 0 | 19.6 |
| 1,2-Dibromoethane | ND | 95.5 | 19.9 | 21.6 | 20 | 0 | 19.9 |

| | Precision | | | Accuracy | | | |
|---|---|---|---|---|---|---|---|
| Compound | %RD | Upper Control Limit | Pass/Fail | % Rec | Lower Contol Limit | Upper Control Limit | Pass/Fail |
| 1,1-Dichloroethene | 4.6 | 20 | Pass | 99.0 | 80 | 120 | Pass |
| Trichloroethene | 7.8 | 20 | Pass | 115 | 80 | 120 | Pass |
| Chlorobenzene | 2.7 | 20 | Pass | 87.0 | 80 | 120 | Pass |
| Benzene | 1.3 | 20 | Pass | 98.5 | 80 | 120 | Pass |
| Toluene | 9.0 | 20 | Pass | 100 | 80 | 120 | Pass |
| Ethylbenzene | 5.9 | 20 | Pass | 95.2 | 80 | 120 | Pass |
| Xylene | 1.7 | 20 | Pass | 99.7 | 80 | 120 | Pass |
| 1,2,4-Trimethylbenzene | 5 | 20 | Pass | 104.2 | 80 | 120 | Pass |
| 1,3,5-Trimethylbenzene | 0.6 | 20 | Pass | 107.4 | 80 | 120 | Pass |
| 1,2-Dichloroethane | 1.1 | 20 | Pass | 98 | 80 | 120 | Pass |
| 1,2-Dibromoethane | 8.2 | 20 | Pass | 99.3 | 80 | 120 | Pass |

% Rec- (Percent Recovery) calculation: 100*(Fortified sample result- Sample result)/Spike Conc.
%RD- (Percent Relative Deviation) calculation:

$$\text{Absolute value of: } \frac{200*(\text{observed value 1- observed value 2})}{\text{Average of observed value 1 and observed value 2}}$$

# Lakeland Laboratories, Inc.

Metals Batch Quality Control Report

**Metals Batch Quality Control** Batch ID: 020309/020409-1

| Metal | MBlk | Method Standard | | | Matrix Spike/Matrix Spike Duplicate | | | |
|---|---|---|---|---|---|---|---|---|
| | | Spk Conc | Conc | %Rec. | Spk Conc | Smp Conc | MS | MSD |
| Arsenic | ND | 50 | 44.44 | 88.9 | 50 | 0 | 47.42 | 47.53 |
| Barium | ND | 250 | 226.84 | 90.7 | 250 | 0 | 247.37 | 238.72 |
| Cadmium | ND | 2.5 | 2.218 | 88.7 | 2.5 | 0 | 2.35 | 2.358 |
| Chromium | ND | 20 | 18.9 | 94.5 | 20 | 0 | 19.84 | 19.21 |
| Copper | ND | 2 | 1.88 | 94.0 | 5 | 1.86 | 6.93 | 6.93 |
| Lead | ND | 10 | 8.42 | 84.2 | 10 | 0 | 9.16 | 9.21 |
| Mercury | ND | 2.5 | 2.77 | 110.8 | 5 | 1.82 | 6.07 | 6.05 |
| Selenium | ND | 25 | 23.49 | 94.0 | 25 | 0 | 24.84 | 25.58 |
| Silver | ND | 2 | 1.76 | 88.0 | 2 | 0 | 1.84 | 1.86 |
| Zinc | ND | 2.5 | 2.56 | 102.4 | 2.5 | 0.28 | 3.01 | 3.01 |
| Iron | ND | | NA | | | 0 | NA | NA |
| Nickel | ND | | NA | | | 0 | NA | NA |
| | ND | | NA | | | 0 | NA | NA |
| | ND | | NA | | | 0 | NA | NA |
| | ND | | NA | | | 0 | NA | NA |

Note: NA-Not Applicable, spike not required for QC sample batch 1

Note: All Concentrations expressed as mg/L

| Metals | Accuracy | | | | | Precision | | |
|---|---|---|---|---|---|---|---|---|
| | QA/QC Limits | | MS | MSD | Pass | QC Limit | | Pass |
| | Lower | Upper | %Rec | %Rec | Fail | Upper | %RD | Fail |
| Arsenic | 80 | 120 | 94.8 | 95.1 | Pass | 20 | 0.2 | Pass |
| Barium | 80 | 120 | 98.9 | 95.5 | Pass | 20 | 3.6 | Pass |
| Cadmium | 80 | 120 | 94.0 | 94.3 | Pass | 20 | 0.3 | Pass |
| Chromium | 80 | 120 | 99.2 | 96.1 | Pass | 20 | 3.2 | Pass |
| Copper | 80 | 120 | 101.4 | 101.4 | Pass | 20 | 0.0 | Pass |
| Lead | 80 | 120 | 91.6 | 92.1 | Pass | 20 | 0.5 | Pass |
| Mercury | 80 | 120 | 85.0 | 84.6 | Pass | 20 | 0.3 | Pass |
| Selenium | 80 | 120 | 99.4 | 102.3 | Pass | 20 | 2.9 | Pass |
| Silver | 80 | 120 | 92.0 | 93.0 | Pass | 20 | 1.1 | Pass |
| Zinc | 80 | 120 | 109.2 | 109.2 | Pass | 20 | 0.0 | Pass |
| Iron | 80 | 120 | | | | 20 | | |
| Nickel | 80 | 120 | | | | 20 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | | | |
|---|---|---|---|
| MBlk | Method Blank | Percent Recovery/%Rec | =MStd*100/Spk Conc |
| MStd | Method Standard | Percent Relative Deviation (%RD) | =200(MS-MSD)/(MS+MDS) |
| MS | Matrix Spike | | |
| MSD | Matrix Spike Duplicate | Note: Sample Conc. reported as "0" if below DL | |

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# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
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## Volatile (Method 8260) Batch Quality Control

Batch ID: 02/04/09

| Compound | Method Blank ug/L | Method Std % Rec. | Observed Value 1 | Observed Value 2 | Spike Conc. ug/L | Sample Result | Foritifed Sample Result |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 88 | 19.8 | 19.7 | 20 | 0 | 19.8 |
| Trichloroethene | ND | 107 | 21.7 | 19.0 | 20 | 0 | 21.7 |
| Chlorobenzene | ND | 91.4 | 17.7 | 17.0 | 20 | 0 | 17.7 |
| Benzene | ND | 83.1 | 16.9 | 17.1 | 20 | 0 | 16.9 |
| Toluene | ND | 112.7 | 21.4 | 20.5 | 20 | 0 | 21.4 |
| Ethylbenzene | ND | 102.9 | 19.0 | 17.3 | 20 | 0 | 19.0 |
| Xylene | ND | 90.3 | 53.5 | 54.0 | 60 | 0 | 53.5 |
| 1,2,4-Trimethylbenzene | ND | 110 | 17.4 | 17.2 | 20 | 0 | 17.4 |
| 1,3,5-Trimethylbenzene | ND | 106.4 | 21.2 | 20.6 | 20 | 0 | 21.2 |
| 1,2-Dichloroethane | ND | 106.0 | 22.9 | 19.6 | 20 | 0 | 22.9 |
| 1,2-Dibromoethane | ND | 97 | 20.8 | 19.0 | 20 | 0 | 20.8 |

| | Precision | | | Accuracy | | | |
|---|---|---|---|---|---|---|---|
| Compound | %RD | Upper Control Limit | Pass/Fail | % Rec | Lower Contol Limit | Upper Control Limit | Pass/Fail |
| 1,1-Dichloroethene | 0.4 | 20 | Pass | 99 | 80 | 120 | Pass |
| Trichloroethene | 13.3 | 20 | Pass | 108.4 | 80 | 120 | Pass |
| Chlorobenzene | 4 | 20 | Pass | 88.5 | 80 | 120 | Pass |
| Benzene | 2 | 20 | Pass | 84.4 | 80 | 120 | Pass |
| Toluene | 4.3 | 20 | Pass | 106.8 | 80 | 120 | Pass |
| Ethylbenzene | 9.0 | 20 | Pass | 94.9 | 80 | 120 | Pass |
| Xylene | 1.0 | 20 | Pass | 89.1 | 80 | 120 | Pass |
| 1,2,4-Trimethylbenzene | 1 | 20 | Pass | 87.1 | 80 | 120 | Pass |
| 1,3,5-Trimethylbenzene | 3 | 20 | Pass | 106 | 80 | 120 | Pass |
| 1,2-Dichloroethane | 15.2 | 20 | Pass | 114.4 | 80 | 120 | Pass |
| 1,2-Dibromoethane | 9.0 | 20 | Pass | 104 | 80 | 120 | Pass |

% Rec- (Percent Recovery) calculation: 100*(Fortified sample result- Sample result)/Spike Conc.
%RD- (Percent Relative Deviation) calculation:

$$\text{Absolute value of: } \frac{200*(\text{observed value 1- observed value 2})}{\text{Average of observed value 1 and observed value 2}}$$

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# Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981


## PNA (Method 8270) Batch Quality Control

Batch ID: 2/5/2009

| Compound | Method Blank ug/L | Method Std % Rec. | Observed Value 1 | Observed Value 2 | Spike Conc. ug/L | Sample Result | Foritifed Sample Result |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 110 | 55.9 | 54.6 | 50 | 0 | 55.9 |
| Acenaphthylene | ND | 64.0 | 32.6 | 32.0 | 50 | 0 | 32.6 |
| Anthracene | ND | 106 | 54.2 | 52.4 | 50 | 0 | 54.2 |
| Benzo(a)anthracene | ND | 68.6 | 40.1 | 33.1 | 50 | 0 | 40.1 |
| Benzo(b)fluroanthene | ND | 65.6 | 43.0 | 38.6 | 50 | 0 | 43.0 |
| Benzo(k)fluoranthene | ND | 71.8 | 44.4 | 37.1 | 50 | 0 | 44.4 |
| Benzo(ghi)perylene | ND | 78.8 | 39.9 | 41.7 | 50 | 0 | 39.9 |
| Benzo (a)pyrene | ND | 71.8 | 31.1 | 32.9 | 50 | 0 | 31.1 |
| Chrysene | ND | 67.0 | 39.4 | 32.5 | 50 | 0 | 39.4 |
| Dibenzo(ah)anthracene | ND | 76.3 | 36.9 | 41.8 | 50 | 0 | 36.9 |
| Fluroanthene | ND | 110 | 56.6 | 51.1 | 50 | 0 | 56.6 |
| Fluorene | ND | 103 | 53.7 | 51.4 | 50 | 0 | 53.7 |
| Indeno(1,2,3-cd)pyrene | ND | 86.0 | 42.2 | 43.1 | 50 | 0 | 42.2 |
| Naphthalene | ND | 96.7 | 48.0 | 48.5 | 50 | 0 | 48.0 |
| Phenanthrene | ND | 102 | 51.2 | 49.8 | 50 | 0 | 51.2 |
| Pyrene | ND | 112 | 58.0 | 55.5 | 50 | 0 | 58.0 |

| | Precision | | | Accuracy | | | |
|---|---|---|---|---|---|---|---|
| Compound | %RD | Upper Control Limit | Pass/Fail | % Rec | Lower Contol Limit | Upper Control Limit | Pass/Fail |
| Acenaphthene | 2.4 | 25 | Pass | 112 | 40 | 135 | Pass |
| Acenaphthylene | 1.9 | 25 | Pass | 65.3 | 40 | 135 | Pass |
| Anthracene | 3.3 | 25 | Pass | 108 | 40 | 135 | Pass |
| Benzo(a)anthracene | 19 | 25 | Pass | 80.3 | 40 | 135 | Pass |
| Benzo(b)fluoranthene | 11 | 25 | Pass | 86.0 | 40 | 135 | Pass |
| Benzo(k)fluoranthene | 18 | 25 | Pass | 88.8 | 40 | 135 | Pass |
| Benzo(ghi)perylene | 4.4 | 25 | Pass | 79.9 | 40 | 135 | Pass |
| Benzo (a)pyrene | 5.7 | 25 | Pass | 62.2 | 40 | 135 | Pass |
| Chrysene | 19 | 25 | Pass | 78.8 | 40 | 135 | Pass |
| Dibenzo(ah)anthracene | 12 | 25 | Pass | 73.9 | 40 | 135 | Pass |
| Fluroanthene | 10 | 25 | Pass | 113 | 40 | 135 | Pass |
| Fluorene | 4.3 | 25 | Pass | 107 | 40 | 135 | Pass |
| Indeno(1,2,3-cd)pyrene | 2.1 | 25 | Pass | 84.4 | 40 | 135 | Pass |
| Naphthalene | 1.2 | 25 | Pass | 95.9 | 40 | 135 | Pass |
| Phenanthrene | 2.9 | 25 | Pass | 102 | 40 | 135 | Pass |
| Pyrene | 4.5 | 25 | Pass | 116 | 40 | 135 | Pass |

% Rec- (Percent Recovery) calculation: 100*(Fortified sample result- Sample result)/Spike Conc.

%RD- (Percent Relative Deviation) calculation:

$$\text{Absolute value of: } \frac{200*(\text{observed value 1- observed value 2})}{\text{Average of observed value 1 and observed value 2}}$$

US EPA ARCHIVE DOCUMENT

## Lakeland Laboratories, Inc.

Batch Quality Control Report

Representative Batch Quality Control

## PCB Analysis

| | |
|---|---|
| Method Reference: | SW846 8082 |
| Batch ID | 020509-1 |

| | | | |
|---|---|---|---|
| Date of Analysis: | 2/5/2009 | Correlation Coeff: | 0.9956 |
| Analyst: | LLW | Method Blank (mg/L) | ND |
| Det Level (ug/Kg): | 0.33 | Method Std (% Rec) | 106 |

| Precision* | | Accuracy** | |
|---|---|---|---|
| Quality Control Limits: | <20% | Fortified Concentration: | 2.00 |
| Observed Value 1 (mg/L): | 1.82 | Background Conc (mg/L): | 0.00 |
| Observed Value 2 (mg/L): | 1.88 | Quality Control Limits: | >45,<125 |
| Percent Relative Deviation: | 3 | Percent Recovery: | 91 |

Comments: _____

* Percent Relative Deviation: 200(Observed 1 - Observed 2)/(Observed 1 + Observed 2)

** Percent Recovery: 100(Observed 1 - Sample Background)/Fortified Concentration

Quality control level of Correlation Coefficient is >0.995

US EPA ARCHIVE DOCUMENT

# APPENDIX E

# GPR SURVEY REPORT

US EPA ARCHIVE DOCUMENT

worksmart, inc.

# Subsurface Imaging Report

January 13, 2009

Prepared For:

**ATC Associates Inc.**
**46555 Humboldt Drive**
**Suite 100**
**Novi, Michigan 48377**

Job Identification:

100 East Paterson
Tecumseh, Michigan

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1 Company Overview

2 Equipment & Capabilities

3 Site Location

4 Radar Scans

5 Report Text

6 FCC Information

7 Technician Signature Page

8 Site Photographs

1 Company Overview

2 Equipment & Capabilities

3 Site Location

4 Radar Scans

5 Report Text

6 FCC Information

7 Technician Signature Page

8 Site Photographs

***Company Qualifications Statement***

Worksmart, Inc. was established in 1998 to provide subsurface scanning and locating services to industry, construction, environmental and private concerns around the United States. Our mission statement is simple " Provide the highest level of quality and professionalism for the best value to the customer in every area of our business. "

**Key Personnel**

*Michael P. McGarry, President & COO*
ERA Technologies, London, England - Advance studies graduate in Surface Penetrating Radar ( SPR ) applications, methodology and subsurface radar sciences
USRADAR, Mattawan, New Jersey – SPR data interpretation training and sciences
NULCA, National Utility Locating Contractors Association member
CAM, Construction Association of Michigan
RSPA, Research and Special Programs Administration compliant member
*Denise Brausch, Vice-President*
USRADAR, Mattawan, New Jersey – SPR data interpretation training and sciences
RSPA, Research and Special Programs Administration compliant member

**Company Assurance**

General Liability $3,000,000
Automobile Liability $1,000,000
Excess Liability Umbrella $3,000,000
Workers Compensation $100,000
Professional Liability $1,000,000 with Lloyds of London
**ISO compliant**

**Primary Equipment**

ERA model from USRADAR, Inc. equipped with either a 500 MHz or 250 MHz antenna, survey trolley and unit controller. The latest version of SPR Super Scan Software 3.01.
*As of September 1, 2000 all devices which emit radio frequency ( RF ) must comply with the safety limits for human exposure as set forth by the Federal Communications Commission. If any facility, operation or device is found not to be in compliance with the commissions RF exposure guidelines, the FCC will consider this a violation of its rules resulting in possible fines, forfeiture or other actions deemed appropriate by the commission.* Taken from the FCC Public Notice released February 25, 2000.

**Our GPR equipment is compliant with all federal regulations and has the FCC license attached.**

Po Box 442 - Paw Paw, Michigan 49079
Voice: 800-565-3347 - 269-341-9529 Facsimile: 269-341-9530
WWW.worksmartinc.net - radar01@voyager.net

# *Company Information*

**Physical Address**
Work Smart, Inc.
63444 County Road 215
Lawrence, Michigan 49064

**Mailing Address**
P.O. Box 442
Paw Paw, Michigan 49079
Electronic Contact

radar01@voyager.net
www.worksmartinc.net

**Phone Contacts**
Main Phone1-800-565-33471-269-341-9529
Fax1-269-341-9530
Mikes Cell1-269-217-1042
Denises Cell1-269-720-8762

**Miscellaneous**

| | |
|---|---|
| Federal Identification Number | 38-3461012 |
| Tax Identification Number | 38-3461012 |

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# worksmart, inc.

USRADAR SPR unit shown with 500 MHz antenna and trolley.

GPR unit shown with 500 MHz antenna on high speed rover.

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WWW.worksmartinc.net - radar01@voyager.net

# *Equipment Capabilities*

Ground Penetrating Radar offers the means to detect buried objects that are not detectable by other methods. In addition to the ability to locate metallic objects, GPR is able to detect nonmetallic objects. The system sends radar pulses into the surface, then it receives and processes the reflected energy. Through advanced processing technology the system calibrates to the dielectric constant of the surrounding material. When the signal is reflected from a material having a different dielectric constant, the signal is displayed on the screen as an anomaly. Depth can also be determined by processing the sampling interval and determining anomaly. Depth can also be determined by processing the sampling interval and determining the size and comparing relative data of other objects detected.
The radar system is concentrating on changes in dielectric constants and not specifically analyzing the characteristics of those changes, therefore, determination of the composition of the object detected is limited, but possible to some degree.
Characteristics of the underlying soils will effect the penetration of the radar through the ground. Sands and gravel's offer the best results with the greatest depth penetration and clearest resolution. Whereas, dense saturated clays offer limited penetration of the radar signal resulting in limited data to process from the returning signal.
GPR utilizes different bandwidth antennas depending on the desired result of the survey. A higher Megahertz antenna will offer the highest resolution, but will not penetrate the surface as far as a lower Megahertz antenna. The lower MHz antenna will penetrate to a greater depth, but the resolution will not be as great as with the higher MHz antenna. An example would be that a 1000 MHz antenna could easily pin point a household telephone wire behind 6 to 8 inches of concrete, a 250 MHz antenna might completely miss it.

With the following parameters in mind an example of expected performance would be:
500 MHz Antenna in clean dry sand, depth penetration 12-15 feet.
250 MHz Antenna in clean dry sand, depth penetration to 40 feet.
500 MHz Antenna in dense wet clay, depth penetration 4-6 feet.
250 MHz Antenna in dense wet clay, depth penetration to 15 feet.

Site investigation prior to radar deployment is critical in determining its suitability and capabilities for your specific needs. While we do make every effort to perform the most complete investigation, it is possible that due to any number of factors including those outlined above, an accurate detection may be difficult to produce in your area of interest. The more information we have, the higher the degree of success can be expected. The biggest limitation of GPR technology is the composition of the material medium through which the investigation will occur.

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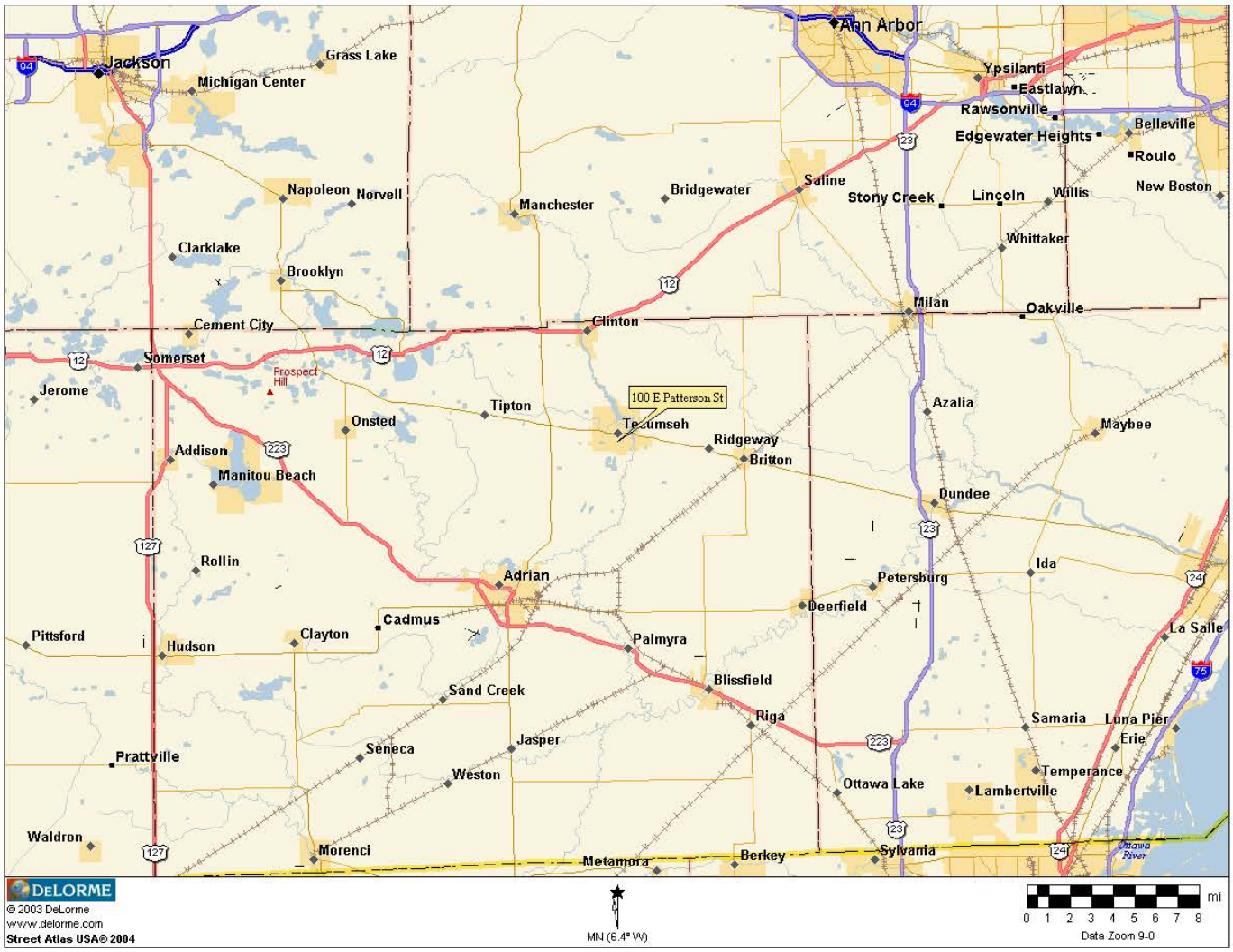
Ann Arbor
Jackson
Grass Lake
Michigan Center
Ypsilanti
Eastlawn
Rawsonville
Edgewater Heights
Belleville
Roulo
New Boston
Napoleon
Norvell
Manchester
Bridgewater
Saline
Stony Creek
Lincoln
Willis
Whittaker
Clarklake
Brooklyn
Milan
Oakville
Cement City
Clinton
Somerset
Prospect Hill
Jerome
100 E Patterson St
Tipton
Azalia
Onsted
Tecumseh
Maybee
Ridgeway
Addison
Britton
Manitou Beach
Dundee
Rollin
Ida
Adrian
Petersburg
Deerfield
Cadmus
La Salle
Pittsford
Hudson
Clayton
Palmyra
Blissfield
Sand Creek
Riga
Samaria
Luna Pier
Erie
Prattville
Seneca
Jasper
Weston
Temperance
Ottawa Lake
Lambertville
Waldron
Morenci
Metamora
Berkey
Sylvania
Ottawa River
DeLORME
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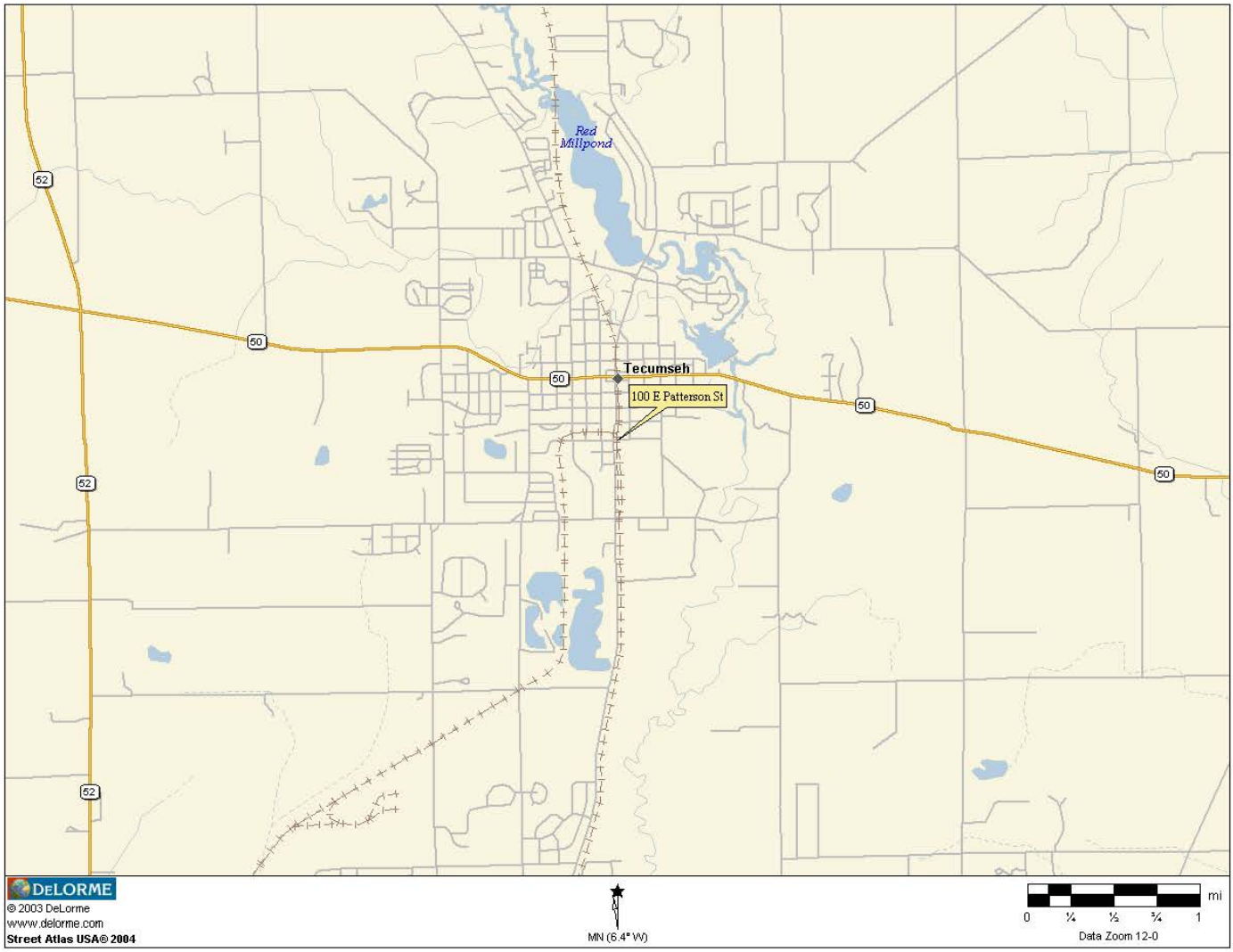
Data Zoom 9-0

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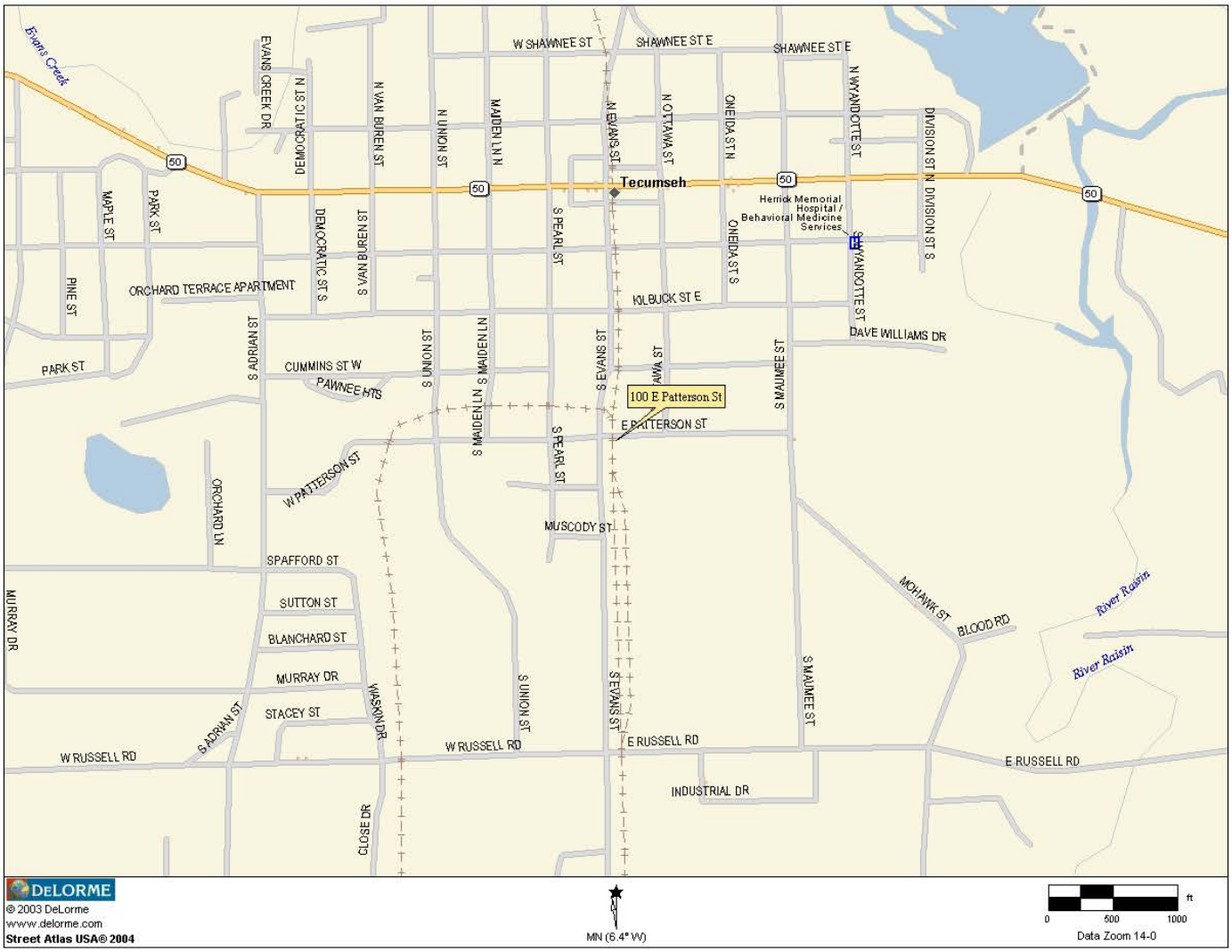
Data Zoom 12-0


Evans Creek
W SHAWNEE ST
SHAWNEE ST E
SHAWNEE ST E
EVANS CREEK DR
DEMOCRATIC ST N
N VAN BUREN ST
N UNION ST
MAIDEN LN N
N EVANS ST
N OTTAWA ST
ONEIDA ST N
N WYANDOTTE ST
DIVISION ST N
DIVISION ST S
50
Tecumseh
Herrick Memorial Hospital / Behavioral Medicine Services
MAPLE ST
PARK ST
DEMOCRATIC ST S
S VAN BUREN ST
S PEARL ST
ONEIDA ST S
S WYANDOTTE ST
PINE ST
ORCHARD TERRACE APARTMENT
KILBUCK ST E
DAVE WILLIAMS DR
S ADRIAN ST
S UNION ST
S MAIDEN LN
S EVANS ST
S OTTAWA ST
S MAUMEE ST
PARK ST
CUMMINS ST W
PAWNEE HTS
100 E Patterson St
E PATTERSON ST
S PEARL ST
W PATTERSON ST
ORCHARD LN
MUSCODY ST
SPAFFORD ST
MOHAWK ST
BLOOD RD
River Raisin
River Raisin
MURRAY DR
SUTTON ST
BLANCHARD ST
MURRAY DR
S UNION ST
S EVANS ST
S MAUMEE ST
S ADRIAN ST
STACEY ST
WASKIN DR
W RUSSELL RD
W RUSSELL RD
E RUSSELL RD
E RUSSELL RD
INDUSTRIAL DR
CLOSE DR
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MN (6.4° W)
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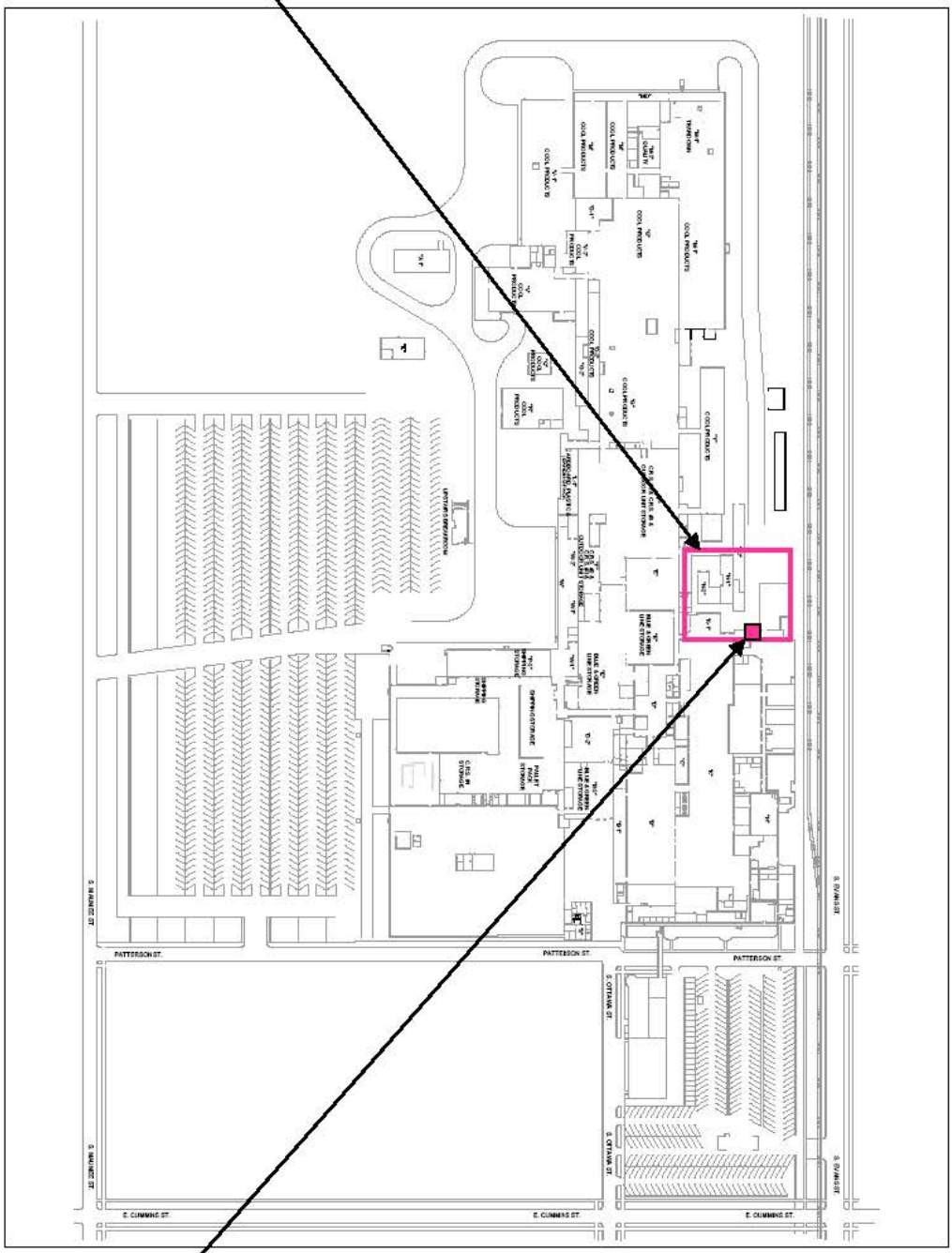
ft
Data Zoom 14-0

**Approximate location of radar scan on exterior of buildings**




**Possible U.S.T.**

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# *Technical Summary*

Ground Penetrating Radar Investigation
For:

100 East Paterson
Tecumseh, Michigan

A Ground Penetrating Radar (GPR) investigation was performed at 100 East Paterson in Tecumseh Michigan on December 17, 2008. The purpose of the investigation was to determine and mark anomalies consistent with possible orphan under ground storage tanks under a specific area on the exterior of the existing buildings.

A 500 MHz antenna was used to collect the data scanning to an approximate depth of 2.6 meters. The area scanned was delineated using a one meter interval grid pattern. This grid pattern would allow for objects consistent with a UST to be scanned. Multiple scans in a North – South and East – West direction was performed. The areas scanned were mostly alleys with limited access and large amounts of items blocking the surface. Most of these areas could only be cursory scanned rather than the more reliable grid scan due to these conditions.

In the areas scanned **ONE** anomaly consistent with an under ground storage tank was observed. This area was depicted on the drawing as well as marked with pink marking paint at the site. Since the location was restricted by the intersection of two buildings a picture of the radar scan that would be conclusive was not possible.

During the course of this radar scan other anomalies deemed inconsistent with the desired targets may have been observed. Since these items were not considered a focus of the investigation, they are not included in this report.

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WWW.worksmartinc.net - radar01@voyager.net

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# *Ground Penetrating Radar Update*

Did you know:

* Radio frequency devices such as radar systems must be licensed with the FCC in order to be operated, imported, or sold in the United States?

* Intentionally or unintentionally operating or marketing an unlicensed, non compliant radar system is prohibited under the Communications Act of 1934?

* Penalties for operating, marketing, or importing unlicensed radar systems within the United States can include forfeiture, fines of up to $10,000, or up to one year imprisonment?

Is your system compliant? Ours is. Work Smart, Inc. Exclusively uses US Radar equipment. US Radar is the only company to carry FCC approved radar systems as of February 2002.

Understanding the FCC rules applying to radio frequency devices has never been more important. We'd like to help you understand the basics:

Radar systems utilize multiple radio frequencies over extended areas. These frequencies have the potential to interfere with radio communications of all kinds if certain criteria are not met, as in the case of improperly shielded antennae which result in energy leakage.

Just because a company has been manufacturing, designing, selling, or leasing radar systems for many years doesn't mean their systems are compliant. Many companies have been operating for years with a total disregard for the US Code of Federal Regulations and FCC Rules. There are heavy penalties that can be levied against these companies, and if you own, lease or use their systems, you may incur penalties too.

The penalties imposed upon anyone who knowingly conducts business in violation of the US Code of Federal Regulations can include forfeiture, a fine of up to $10,000 or up to one year in prison or both; these penalties increase with subsequent violations. In some cases, where FCC and/or international radio/wire communications regulations are violated and the United States becomes a party in the case, the person convicted of the violation will be subject to up to $500 for each day during which the offense occurred plus any other penalties that are applicable.

How do you know if a radar system has met the requirements of and has been approved by the FCC? According to the US Code of Federal Regulations, all radio frequency devices must be "properly identified and labeled" as having been authorized by the FCC. If a company claims that their FCC approval is pending or if they are advertising or exhibiting systems without the proper FCC labeling, the following notice

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# *Technician Verification*

Ground Penetrating Radar Investigation
For:

100 East Paterson
Tecumseh, Michigan

I affirm that I *Michael P. McGarry* acting as an employee and representative of Work Smart, Inc. located in Paw Paw Michigan do here by affirm that I personally performed the Ground Penetrating Radar ( GPR ) scan at the above described location on December 17, 2008.

Michael P. McGarry
President

Date: January 13, 2009

Po Box 442 - Paw Paw, Michigan 49079
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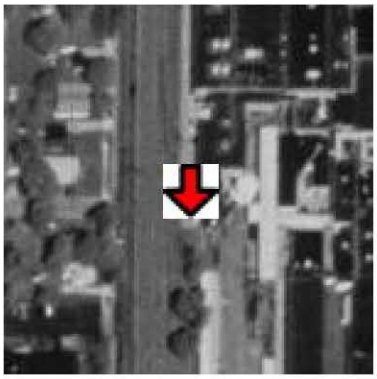
# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0095_tag.jpg**



| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.814' W 083° 56.681'** |
| Location (UTM) | **17 N 0256105 4653627** |
| Datum | **WGS 84** |
| Elevation | **810 ft** |
| Direction | **178°** |
| Time | **12/17/2008 12:36:18 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0095.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0096_tag.jpg**

| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.814' W 083° 56.682'** |
| Location (UTM) | **17 N 0256104 4653628** |
| Datum | **WGS 84** |
| Elevation | **807 ft** |
| Direction | **160°** |
| Time | **12/17/2008 12:36:23 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0096.JPG** |

# ATC - Tecumseh, MI

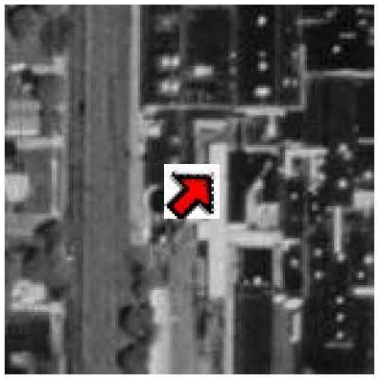
GPS Tagged Photo : **RIMG0097_tag.jpg**

| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.814' W 083° 56.682'** |
| Location (UTM) | **17 N 0256104 4653628** |
| Datum | **WGS 84** |
| Elevation | **807 ft** |
| Direction | **160°** |
| Time | **12/17/2008 12:36:23 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0097.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0098_tag.jpg**



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|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.818' W 083° 56.665'** |
| Location (UTM) | **17 N 0256127 4653634** |
| Datum | **WGS 84** |
| Elevation | **856 ft** |
| Direction | **47°** |
| Time | **12/17/2008 12:36:43 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0098.JPG** |

# ATC - Tecumseh, MI

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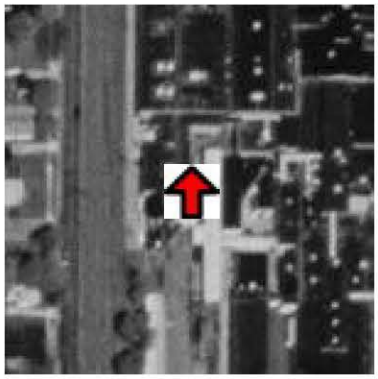

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|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.819' W 083° 56.664'** |
| Location (UTM) | **17 N 0256128 4653636** |
| Datum | **WGS 84** |
| Elevation | **856 ft** |
| Direction | **10°** |
| Time | **12/17/2008 12:36:50 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0099.JPG** |

# ATC - Tecumseh, MI

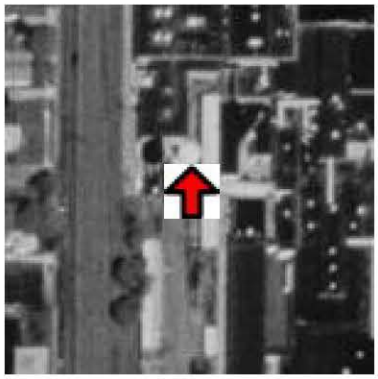
GPS Tagged Photo : **RIMG0100_tag.jpg**

| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.817' W 083° 56.664'** |
| Location (UTM) | **17 N 0256129 4653633** |
| Datum | **WGS 84** |
| Elevation | **830 ft** |
| Direction | **1°** |
| Time | **12/17/2008 12:36:56 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0100.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0101_tag.jpg**



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|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.808' W 083° 56.663'** |
| Location (UTM) | **17 N 0256130 4653615** |
| Datum | **WGS 84** |
| Elevation | **787 ft** |
| Direction | **1°** |
| Time | **12/17/2008 12:37:02 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0101.JPG** |

# ATC - Tecumseh, MI

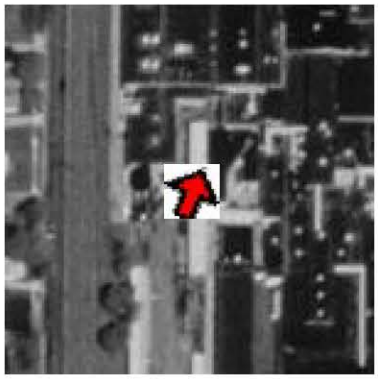
GPS Tagged Photo : **RIMG0102_tag.jpg**

| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.809' W 083° 56.659'** |
| Location (UTM) | **17 N 0256136 4653617** |
| Datum | **WGS 84** |
| Elevation | **741 ft** |
| Direction | **19°** |
| Time | **12/17/2008 12:37:22 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0102.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0103_tag.jpg**



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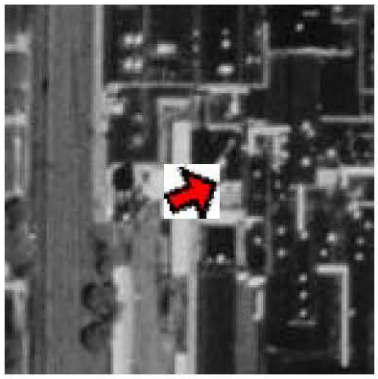
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.814' W 083° 56.660'** |
| Location (UTM) | **17 N 0256135 4653626** |
| Datum | **WGS 84** |
| Elevation | **761 ft** |
| Direction | **19°** |
| Time | **12/17/2008 12:37:26 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0103.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0104_tag.jpg**



| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.814' W 083° 56.655'** |
| Location (UTM) | **17 N 0256141 4653625** |
| Datum | **WGS 84** |
| Elevation | **761 ft** |
| Direction | **65°** |
| Time | **12/17/2008 12:37:38 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0104.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0105_tag.jpg**

| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.808' W 083° 56.645'** |
| Location (UTM) | **17 N 0256154 4653614** |
| Datum | **WGS 84** |
| Elevation | **758 ft** |
| Direction | **101°** |
| Time | **12/17/2008 12:37:52 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0105.JPG** |

# ATC - Tecumseh, MI

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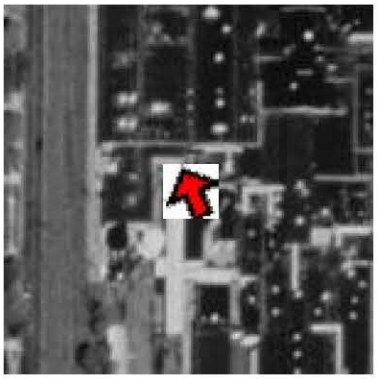


| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.827' W 083° 56.654'** |
| Location (UTM) | **17 N 0256144 4653649** |
| Datum | **WGS 84** |
| Elevation | **791 ft** |
| Direction | **347°** |
| Time | **12/17/2008 12:37:59 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0106.JPG** |

# ATC - Tecumseh, MI

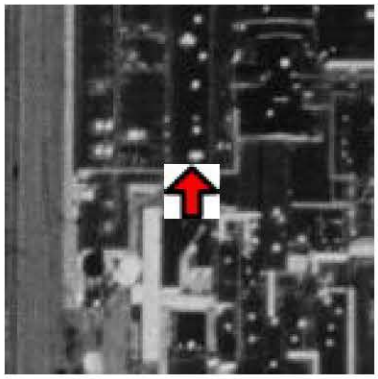
GPS Tagged Photo : **RIMG0107_tag.jpg**

| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.822' W 083° 56.652'** |
| Location (UTM) | **17 N 0256145 4653641** |
| Datum | **WGS 84** |
| Elevation | **768 ft** |
| Direction | **81°** |
| Time | **12/17/2008 12:38:06 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0107.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0108_tag.jpg**

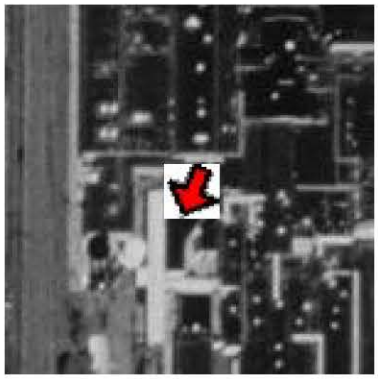


| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.833' W 083° 56.646'** |
| Location (UTM) | **17 N 0256154 4653660** |
| Datum | **WGS 84** |
| Elevation | **873 ft** |
| Direction | **5°** |
| Time | **12/17/2008 12:38:29 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0108.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0109_tag.jpg**

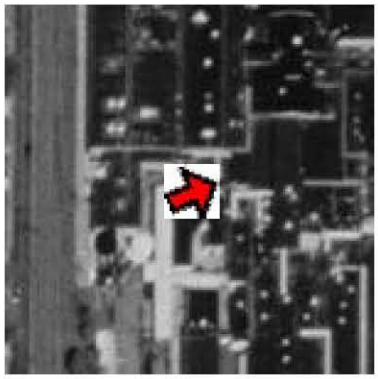


| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.829' W 083° 56.648'** |
| Location (UTM) | **17 N 0256152 4653653** |
| Datum | **WGS 84** |
| Elevation | **876 ft** |
| Direction | **205°** |
| Time | **12/17/2008 12:38:35 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0109.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0110_tag.jpg**

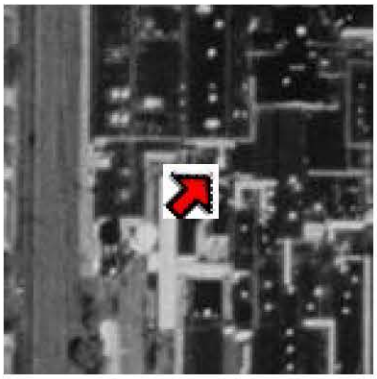


| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.828' W 083° 56.650'** |
| Location (UTM) | **17 N 0256149 4653651** |
| Datum | **WGS 84** |
| Elevation | **866 ft** |
| Direction | **58°** |
| Time | **12/17/2008 12:38:53 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0110.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0111_tag.jpg**

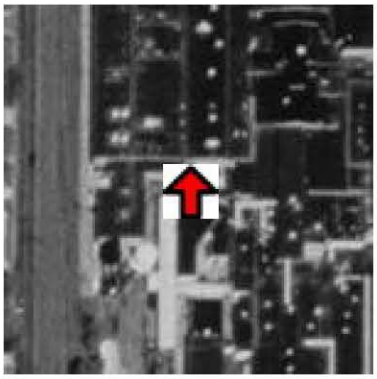


| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.826' W 083° 56.652'** |
| Location (UTM) | **17 N 0256147 4653648** |
| Datum | **WGS 84** |
| Elevation | **873 ft** |
| Direction | **36°** |
| Time | **12/17/2008 12:39:11 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0111.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0112_tag.jpg**

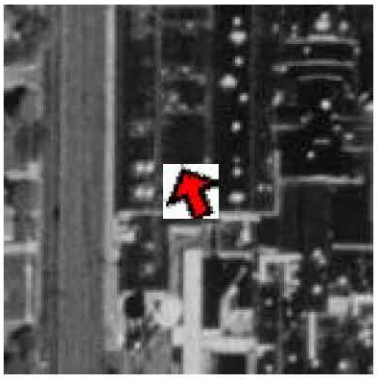


| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.830' W 083° 56.652'** |
| Location (UTM) | **17 N 0256146 4653655** |
| Datum | **WGS 84** |
| Elevation | **873 ft** |
| Direction | **7°** |
| Time | **12/17/2008 12:39:19 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0112.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0113_tag.jpg**

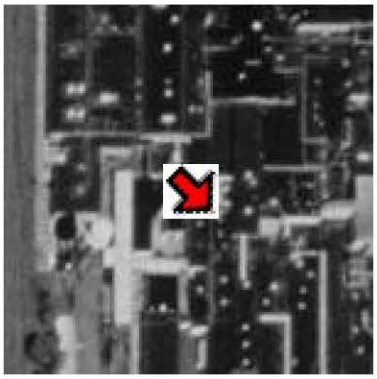


| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.842' W 083° 56.659'** |
| Location (UTM) | **17 N 0256137 4653678** |
| Datum | **WGS 84** |
| Elevation | **873 ft** |
| Direction | **343°** |
| Time | **12/17/2008 12:39:23 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0113.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0114_tag.jpg**

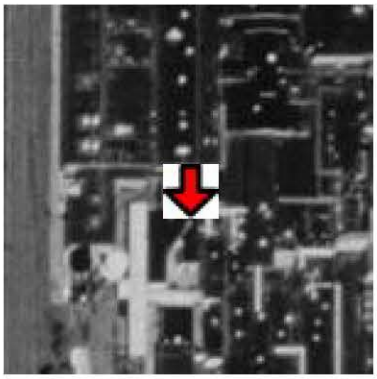


| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.825' W 083° 56.639'** |
| Location (UTM) | **17 N 0256164 4653645** |
| Datum | **WGS 84** |
| Elevation | **873 ft** |
| Direction | **127°** |
| Time | **12/17/2008 12:39:33 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0114.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0115_tag.jpg**

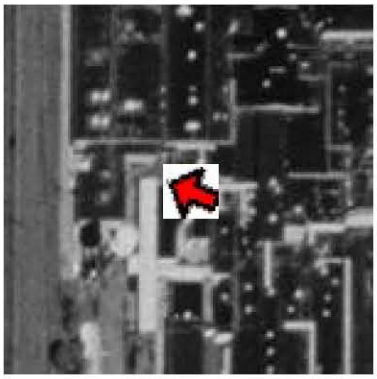


| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.832' W 083° 56.643'** |
| Location (UTM) | **17 N 0256158 4653658** |
| Datum | **WGS 84** |
| Elevation | **892 ft** |
| Direction | **171°** |
| Time | **12/17/2008 12:39:53 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0115.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0116_tag.jpg**

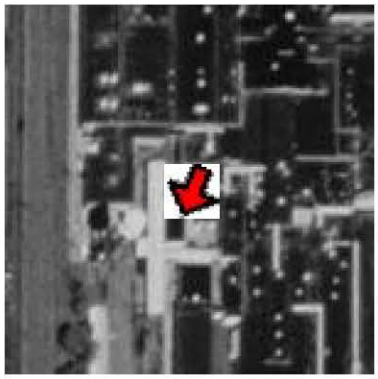


| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.826' W 083° 56.646'** |
| Location (UTM) | **17 N 0256154 4653648** |
| Datum | **WGS 84** |
| Elevation | **846 ft** |
| Direction | **283°** |
| Time | **12/17/2008 12:40:00 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0116.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0117_tag.jpg**

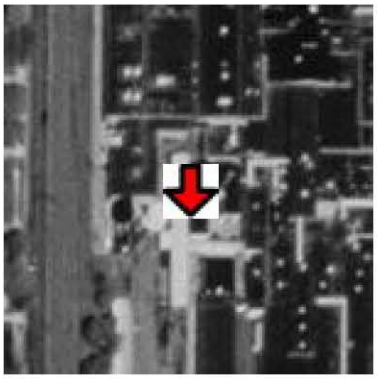


| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.823' W 083° 56.648'** |
| Location (UTM) | **17 N 0256152 4653642** |
| Datum | **WGS 84** |
| Elevation | **797 ft** |
| Direction | **197°** |
| Time | **12/17/2008 12:40:09 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0117.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0118_tag.jpg**

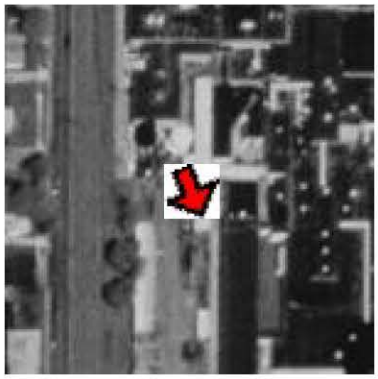


| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.821' W 083° 56.655'** |
| Location (UTM) | **17 N 0256142 4653639** |
| Datum | **WGS 84** |
| Elevation | **771 ft** |
| Direction | **182°** |
| Time | **12/17/2008 12:40:25 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0118.JPG** |

# ATC - Tecumseh, MI

GPS Tagged Photo : **RIMG0119_tag.jpg**



| | |
|---|---|
| Title | **ATC - Tecumseh, MI** |

| | |
|---|---|
| Location (Lat/Lon) | **N 41° 59.804' W 083° 56.660'** |
| Location (UTM) | **17 N 0256133 4653608** |
| Datum | **WGS 84** |
| Elevation | **728 ft** |
| Direction | **162°** |
| Time | **12/17/2008 12:40:45 PM** |
| Time Zone | **(GMT-05:00) Eastern Standard Time** |
| Camera Make | **RICOH** |
| Camera Model | **Caplio 500SE** |
| Camera Software | **2.38 Rev 4** |
| Original File | **RIMG0119.JPG** |