**WEST VERMONT HYDROGEOLOGIC INVESTIGATION**
**SPEEDWAY, INDIANA**
**DATA VALIDATION REPORT**

**Date:** November 18, 2011
**Laboratory:** Pace Analytical Services, Inc. (Pace), Indianapolis, Indiana
**Laboratory Project #:** 5054786
**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON) Superfund Technical Assessment and Response Team (START)
**Weston Analytical Work Order #/TDD #**: 20405.016.001.1625.00/S05-0001-1109-031

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for two water samples plus one trip blank collected for the West Vermont Hydrogeological Investigation Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Target Compound List (TCL) Volatile Organic Compounds (VOC) by SW-846 Method 8260

A level II data package was requested from Pace. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

## TCL VOCs BY SW-846 METHOD 8260

### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

| Samples | Lab ID | Matrix | Date Collected | Date Analyzed |
|---|---|---|---|---|
| WVS-VAS03-111411-(30-35') | 5054786001 | Water | 11/14/2011 | 11/15/2011 |
| WVS-VAS03-111411-(40-45') | 5054786002 | Water | 11/14/2011 | 11/15/2011 |
| Trip Blank | 5054786003 | Water | 11/14/2011 | 11/15/2011 |

### 2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection.

## 3. Blanks

A method blank was analyzed with the VOC analyses and was free of target compound contamination above the reporting limit.

In addition, the trip blank contained no detections of VOCs above the reporting limit.

## 4. Surrogate Results

The surrogate recovery results were within the laboratory-established quality control (QC) limits.

## 5. Laboratory Control Sample (LCS) Results

The LCS recoveries were within laboratory QC limits.

## 6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

An MS and MSD were not analyzed with this work order. No qualifications are required.

## 7. Field Duplicate Results

There are no field duplicates associated with this work order.

## 8. Overall Assessment

The VOC data are acceptable for use based on the information received.

# ATTACHMENT

# PACE ANALYTICAL SERVICES, INC.
# RESULTS SUMMARY

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

# ANALYTICAL RESULTS

Project: West Vermont Street
Pace Project No.: 5054786

**Sample: WVS-VAS03-111411-(30-35')** **Lab ID: 5054786001** Collected: 11/14/11 16:15 Received: 11/15/11 10:20 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | |
| Acetone | ND | ug/L | 100 | 1 | | 11/15/11 15:07 | 67-64-1 | |
| Benzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 75-27-4 | |
| Bromoform | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 75-25-2 | |
| Bromomethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 25.0 | 1 | | 11/15/11 15:07 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 10.0 | 1 | | 11/15/11 15:07 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 108-90-7 | |
| Chloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 75-00-3 | |
| Chloroform | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 67-66-3 | |
| Chloromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 74-87-3 | |
| Cyclohexane | ND | ug/L | 100 | 1 | | 11/15/11 15:07 | 110-82-7 | N2 |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 10.0 | 1 | | 11/15/11 15:07 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 100 | 1 | | 11/15/11 15:07 | 123-91-1 | N2 |
| Ethylbenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 25.0 | 1 | | 11/15/11 15:07 | 591-78-6 | |
| Isopropylbenzene (Cumene) | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 98-82-8 | |
| Methyl acetate | ND | ug/L | 50.0 | 1 | | 11/15/11 15:07 | 79-20-9 | N2 |
| Methylcyclohexane | ND | ug/L | 50.0 | 1 | | 11/15/11 15:07 | 108-87-2 | N2 |
| Methylene chloride | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 25.0 | 1 | | 11/15/11 15:07 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 4.0 | 1 | | 11/15/11 15:07 | 1634-04-4 | |
| Styrene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 127-18-4 | |
| Toluene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 79-00-5 | |



This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

**Pace Analytical Services, Inc.**
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

# ANALYTICAL RESULTS

Project: West Vermont Street
Pace Project No.: 5054786

**Sample: WVS-VAS03-111411-(30-35')** **Lab ID: 5054786001** Collected: 11/14/11 16:15 Received: 11/15/11 10:20 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | |
| Trichloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 76-13-1 | |
| Vinyl chloride | **6.3** | ug/L | 2.0 | 1 | | 11/15/11 15:07 | 75-01-4 | |
| m&p-Xylene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:07 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | |
| Dibromofluoromethane (S) | 105 | % | 83-123 | 1 | | 11/15/11 15:07 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 101 | % | 72-125 | 1 | | 11/15/11 15:07 | 460-00-4 | |
| Toluene-d8 (S) | 99 | % | 81-114 | 1 | | 11/15/11 15:07 | 2037-26-5 | |



This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

**Pace Analytical Services, Inc.**
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

# ANALYTICAL RESULTS

Project: West Vermont Street
Pace Project No.: 5054786

**Sample: WVS-VAS03-111411-(40-45')** **Lab ID: 5054786002** Collected: 11/14/11 17:30 Received: 11/15/11 10:20 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | |
| Acetone | ND | ug/L | 100 | 1 | | 11/15/11 15:41 | 67-64-1 | |
| Benzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 75-27-4 | |
| Bromoform | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 75-25-2 | |
| Bromomethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 25.0 | 1 | | 11/15/11 15:41 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 10.0 | 1 | | 11/15/11 15:41 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 108-90-7 | |
| Chloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 75-00-3 | |
| Chloroform | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 67-66-3 | |
| Chloromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 74-87-3 | |
| Cyclohexane | ND | ug/L | 100 | 1 | | 11/15/11 15:41 | 110-82-7 | N2 |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 10.0 | 1 | | 11/15/11 15:41 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 100 | 1 | | 11/15/11 15:41 | 123-91-1 | N2 |
| Ethylbenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 25.0 | 1 | | 11/15/11 15:41 | 591-78-6 | |
| Isopropylbenzene (Cumene) | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 98-82-8 | |
| Methyl acetate | ND | ug/L | 50.0 | 1 | | 11/15/11 15:41 | 79-20-9 | N2 |
| Methylcyclohexane | ND | ug/L | 50.0 | 1 | | 11/15/11 15:41 | 108-87-2 | N2 |
| Methylene chloride | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 25.0 | 1 | | 11/15/11 15:41 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 4.0 | 1 | | 11/15/11 15:41 | 1634-04-4 | |
| Styrene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 127-18-4 | |
| Toluene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 79-00-5 | |



This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

**Pace Analytical Services, Inc.**
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

# ANALYTICAL RESULTS

Project: West Vermont Street
Pace Project No.: 5054786

**Sample: WVS-VAS03-111411-(40-45')** **Lab ID: 5054786002** Collected: 11/14/11 17:30 Received: 11/15/11 10:20 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | |
| Trichloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 76-13-1 | |
| Vinyl chloride | ND | ug/L | 2.0 | 1 | | 11/15/11 15:41 | 75-01-4 | |
| m&p-Xylene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 5.0 | 1 | | 11/15/11 15:41 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | |
| Dibromofluoromethane (S) | 110 | % | 83-123 | 1 | | 11/15/11 15:41 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 102 | % | 72-125 | 1 | | 11/15/11 15:41 | 460-00-4 | |
| Toluene-d8 (S) | 95 | % | 81-114 | 1 | | 11/15/11 15:41 | 2037-26-5 | |



This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

# ANALYTICAL RESULTS

Project: West Vermont Street
Pace Project No.: 5054786

**Sample: Trip Blank** **Lab ID: 5054786003** Collected: 11/14/11 08:00 Received: 11/15/11 10:20 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | |
| Acetone | ND | ug/L | 100 | 1 | | 11/15/11 16:14 | 67-64-1 | |
| Benzene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 75-27-4 | |
| Bromoform | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 75-25-2 | |
| Bromomethane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 25.0 | 1 | | 11/15/11 16:14 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 10.0 | 1 | | 11/15/11 16:14 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 108-90-7 | |
| Chloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 75-00-3 | |
| Chloroform | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 67-66-3 | |
| Chloromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 74-87-3 | |
| Cyclohexane | ND | ug/L | 100 | 1 | | 11/15/11 16:14 | 110-82-7 | N2 |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 10.0 | 1 | | 11/15/11 16:14 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 10061-02-6 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 100 | 1 | | 11/15/11 16:14 | 123-91-1 | N2 |
| Ethylbenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 25.0 | 1 | | 11/15/11 16:14 | 591-78-6 | |
| Isopropylbenzene (Cumene) | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 98-82-8 | |
| Methyl acetate | ND | ug/L | 50.0 | 1 | | 11/15/11 16:14 | 79-20-9 | N2 |
| Methylcyclohexane | ND | ug/L | 50.0 | 1 | | 11/15/11 16:14 | 108-87-2 | N2 |
| Methylene chloride | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 25.0 | 1 | | 11/15/11 16:14 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 4.0 | 1 | | 11/15/11 16:14 | 1634-04-4 | |
| Styrene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 127-18-4 | |
| Toluene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 79-01-6 | |



This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

**Pace Analytical Services, Inc.**
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

# ANALYTICAL RESULTS

Project: West Vermont Street
Pace Project No.: 5054786

**Sample: Trip Blank** **Lab ID: 5054786003** Collected: 11/14/11 08:00 Received: 11/15/11 10:20 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | |
| Trichlorofluoromethane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 76-13-1 | |
| Vinyl chloride | ND | ug/L | 2.0 | 1 | | 11/15/11 16:14 | 75-01-4 | |
| m&p-Xylene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 5.0 | 1 | | 11/15/11 16:14 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | |
| Dibromofluoromethane (S) | 108 | % | 83-123 | 1 | | 11/15/11 16:14 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 100 | % | 72-125 | 1 | | 11/15/11 16:14 | 460-00-4 | |
| Toluene-d8 (S) | 97 | % | 81-114 | 1 | | 11/15/11 16:14 | 2037-26-5 | |



This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

**Pace Analytical Services, Inc.**
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

# QUALIFIERS

Project: West Vermont Street
Pace Project No.: 5054786

## DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

## ANALYTE QUALIFIERS

N2 The lab does not hold TNI accreditation for this parameter.



This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..