

September 23, 2015

Mr. Keith Hughes  
QEPI  
1611 S Franklin Rd  
Indianapolis, IN 46239

RE: Project: Michigan Street ER  
Pace Project No.: 50128192

Dear Mr. Hughes:

Enclosed are the analytical results for sample(s) received by the laboratory on September 21, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Mark Davis  
mark.davis@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Michigan Street ER

Pace Project No.: 50128192

### Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 200074

Indiana Certification #: C-49-06

Kansas Certification #: E-10177

Kentucky UST Certification #: 0042

Kentucky WW Certification #: 98019

Louisiana Certification #: 04076

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2014-148

Texas Certification #: T104704355-15-9

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-10-00128

PRELIMINARY

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Michigan Street ER

Pace Project No.: 50128192

| Lab ID      | Sample ID | Matrix | Date Collected | Date Received  |
|-------------|-----------|--------|----------------|----------------|
| 50128192001 | MWER-01   | Solid  | 09/21/15 15:00 | 09/21/15 16:11 |
| 50128192002 | MWER-02   | Solid  | 09/21/15 15:10 | 09/21/15 16:11 |
| 50128192003 | MWER-06   | Solid  | 09/21/15 15:30 | 09/21/15 16:11 |
| 50128192004 | MWER-03   | Water  | 09/21/15 15:15 | 09/21/15 16:11 |
| 50128192005 | MWER-04   | Water  | 09/21/15 15:17 | 09/21/15 16:11 |
| 50128192006 | MWER-05   | Water  | 09/21/15 15:20 | 09/21/15 16:11 |

PRELIMINARY

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Michigan Street ER

Pace Project No.: 50128192

| Lab ID      | Sample ID | Method   | Analysts | Analytes Reported |
|-------------|-----------|----------|----------|-------------------|
| 50128192001 | MWER-01   | EPA 8260 | JLZ      | 73                |
|             |           | EPA 1010 | WDB      | 1                 |
| 50128192002 | MWER-02   | EPA 8260 | JLZ      | 73                |
|             |           | EPA 1010 | WDB      | 1                 |
| 50128192003 | MWER-06   | EPA 8260 | JLZ      | 73                |
|             |           | EPA 1010 | WDB      | 1                 |
| 50128192004 | MWER-03   | EPA 9045 | SCM      | 1                 |
| 50128192005 | MWER-04   | EPA 9045 | SCM      | 1                 |
| 50128192006 | MWER-05   | EPA 9045 | SCM      | 1                 |

PRELIMINARY

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Michigan Street ER

Pace Project No.: 50128192

Sample: MWER-01 Lab ID: 50128192001 Collected: 09/21/15 15:00 Received: 09/21/15 16:11 Matrix: Solid

Results reported on a "wet-weight" basis

| Parameters                     | Results   | Units                       | Report Limit | DF    | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|-----------|-----------------------------|--------------|-------|----------|----------------|------------|------|
| <b>8260 MSV 5030 Low Level</b> |           | Analytical Method: EPA 8260 |              |       |          |                |            |      |
| Acetone                        | 135000000 | ug/kg                       | 500000       | 50000 |          | 09/23/15 08:45 | 67-64-1    | CH,E |
| Acrolein                       | ND        | ug/kg                       | 50000        | 5000  |          | 09/23/15 08:29 | 107-02-8   |      |
| Acrylonitrile                  | ND        | ug/kg                       | 50000        | 5000  |          | 09/23/15 08:29 | 107-13-1   |      |
| Benzene                        | 52200     | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 71-43-2    |      |
| Bromobenzene                   | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 108-86-1   |      |
| Bromochloromethane             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 74-97-5    |      |
| Bromodichloromethane           | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 75-27-4    |      |
| Bromoform                      | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 75-25-2    |      |
| Bromomethane                   | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 74-83-9    |      |
| 2-Butanone (MEK)               | ND        | ug/kg                       | 125000       | 5000  |          | 09/23/15 08:29 | 78-93-3    |      |
| n-Butylbenzene                 | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 104-51-8   |      |
| sec-Butylbenzene               | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 135-98-8   |      |
| tert-Butylbenzene              | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 98-06-6    |      |
| Carbon disulfide               | ND        | ug/kg                       | 50000        | 5000  |          | 09/23/15 08:29 | 75-15-0    |      |
| Carbon tetrachloride           | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 56-23-5    |      |
| Chlorobenzene                  | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 108-90-7   |      |
| Chloroethane                   | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 75-00-3    |      |
| Chloroform                     | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 67-66-3    |      |
| Chloromethane                  | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 74-87-3    |      |
| 2-Chlorotoluene                | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 95-49-8    |      |
| 4-Chlorotoluene                | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 106-43-4   |      |
| Dibromochloromethane           | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 106-93-4   |      |
| Dibromomethane                 | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 08:29 | 110-57-6   |      |
| Dichlorodifluoromethane        | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 75-71-8    |      |
| 1,1-Dichloroethane             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 75-34-3    |      |
| 1,2-Dichloroethane             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 107-06-2   |      |
| 1,1-Dichloroethene             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 156-60-5   |      |
| 1,2-Dichloropropane            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 78-87-5    |      |
| 1,3-Dichloropropane            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 142-28-9   |      |
| 2,2-Dichloropropane            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 594-20-7   |      |
| 1,1-Dichloropropene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 563-58-6   |      |
| cis-1,3-Dichloropropene        | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 10061-02-6 |      |
| Ethylbenzene                   | 159000    | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 100-41-4   |      |
| Ethyl methacrylate             | ND        | ug/kg                       | 50000        | 5000  |          | 09/23/15 08:29 | 97-63-2    |      |
| Hexachloro-1,3-butadiene       | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 87-68-3    |      |
| n-Hexane                       | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 110-54-3   |      |
| 2-Hexanone                     | ND        | ug/kg                       | 50000        | 5000  |          | 09/23/15 08:29 | 591-78-6   |      |
| Iodomethane                    | ND        | ug/kg                       | 50000        | 5000  |          | 09/23/15 08:29 | 74-88-4    |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Michigan Street ER

Pace Project No.: 50128192

Sample: MWER-01 Lab ID: 50128192001 Collected: 09/21/15 15:00 Received: 09/21/15 16:11 Matrix: Solid

Results reported on a "wet-weight" basis

| Parameters                        | Results   | Units                       | Report Limit | DF    | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------------|-----------|-----------------------------|--------------|-------|----------|----------------|-----------|------|
| <b>8260 MSV 5030 Low Level</b>    |           | Analytical Method: EPA 8260 |              |       |          |                |           |      |
| Isopropylbenzene (Cumene)         | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 98-82-8   |      |
| p-Isopropyltoluene                | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 99-87-6   |      |
| Methylene Chloride                | 68500000  | ug/kg                       | 1000000      | 50000 |          | 09/23/15 08:45 | 75-09-2   | E    |
| 4-Methyl-2-pentanone (MIBK)       | ND        | ug/kg                       | 125000       | 5000  |          | 09/23/15 08:29 | 108-10-1  |      |
| Methyl-tert-butyl ether           | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 1634-04-4 |      |
| Naphthalene                       | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 91-20-3   |      |
| n-Propylbenzene                   | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 103-65-1  |      |
| Styrene                           | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane         | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane         | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 79-34-5   |      |
| Tetrachloroethene                 | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 127-18-4  |      |
| Toluene                           | 227000000 | ug/kg                       | 250000       | 50000 |          | 09/23/15 08:45 | 108-88-3  | E    |
| 1,2,3-Trichlorobenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 120-82-1  |      |
| 1,1,1-Trichloroethane             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 71-55-6   |      |
| 1,1,2-Trichloroethane             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 79-00-5   |      |
| Trichloroethene                   | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 79-01-6   |      |
| Trichlorofluoromethane            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 75-69-4   |      |
| 1,2,3-Trichloropropane            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 108-67-8  |      |
| Vinyl acetate                     | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 08:29 | 108-05-4  |      |
| Vinyl chloride                    | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 08:29 | 75-01-4   |      |
| Xylene (Total)                    | 169000    | ug/kg                       | 50000        | 5000  |          | 09/23/15 08:29 | 1330-20-7 |      |
| <b>Surrogates</b>                 |           |                             |              |       |          |                |           |      |
| Dibromofluoromethane (S)          | 96        | %                           | 85-118       | 5000  |          | 09/23/15 08:29 | 1868-53-7 | D4   |
| Toluene-d8 (S)                    | 62        | %                           | 71-128       | 5000  |          | 09/23/15 08:29 | 2037-26-5 | S5   |
| 4-Bromofluorobenzene (S)          | 100       | %                           | 56-144       | 5000  |          | 09/23/15 08:29 | 460-00-4  |      |
| <b>1010 Flashpoint,Closed Cup</b> |           | Analytical Method: EPA 1010 |              |       |          |                |           |      |
| Flashpoint                        | NaN       | deg F                       |              | 1     |          | 09/22/15 07:21 |           | 1d   |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Michigan Street ER

Pace Project No.: 50128192

Sample: MWER-02 Lab ID: 50128192002 Collected: 09/21/15 15:10 Received: 09/21/15 16:11 Matrix: Solid

Results reported on a "wet-weight" basis

| Parameters                     | Results   | Units                       | Report Limit | DF    | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|-----------|-----------------------------|--------------|-------|----------|----------------|------------|------|
| <b>8260 MSV 5030 Low Level</b> |           | Analytical Method: EPA 8260 |              |       |          |                |            |      |
| Acetone                        | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 09:01 | 67-64-1    |      |
| Acrolein                       | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 09:01 | 107-02-8   |      |
| Acrylonitrile                  | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 09:01 | 107-13-1   |      |
| Benzene                        | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 71-43-2    |      |
| Bromobenzene                   | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 108-86-1   |      |
| Bromochloromethane             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 74-97-5    |      |
| Bromodichloromethane           | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 75-27-4    |      |
| Bromoform                      | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 75-25-2    |      |
| Bromomethane                   | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 74-83-9    |      |
| 2-Butanone (MEK)               | 667000000 | ug/kg                       | 1250000      | 50000 |          | 09/23/15 09:17 | 78-93-3    | E    |
| n-Butylbenzene                 | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 104-51-8   |      |
| sec-Butylbenzene               | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 135-98-8   |      |
| tert-Butylbenzene              | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 98-06-6    |      |
| Carbon disulfide               | ND        | ug/kg                       | 50000        | 5000  |          | 09/23/15 09:01 | 75-15-0    |      |
| Carbon tetrachloride           | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 56-23-5    |      |
| Chlorobenzene                  | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 108-90-7   |      |
| Chloroethane                   | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 75-00-3    |      |
| Chloroform                     | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 67-66-3    |      |
| Chloromethane                  | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 74-87-3    |      |
| 2-Chlorotoluene                | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 95-49-8    |      |
| 4-Chlorotoluene                | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 106-43-4   |      |
| Dibromochloromethane           | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 106-93-4   |      |
| Dibromomethane                 | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 09:01 | 110-57-6   |      |
| Dichlorodifluoromethane        | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 75-71-8    |      |
| 1,1-Dichloroethane             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 75-34-3    |      |
| 1,2-Dichloroethane             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 107-06-2   |      |
| 1,1-Dichloroethene             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 156-60-5   |      |
| 1,2-Dichloropropane            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 78-87-5    |      |
| 1,3-Dichloropropane            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 142-28-9   |      |
| 2,2-Dichloropropane            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 594-20-7   |      |
| 1,1-Dichloropropene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 563-58-6   |      |
| cis-1,3-Dichloropropene        | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 10061-02-6 |      |
| Ethylbenzene                   | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 100-41-4   |      |
| Ethyl methacrylate             | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 09:01 | 97-63-2    |      |
| Hexachloro-1,3-butadiene       | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 87-68-3    |      |
| n-Hexane                       | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:01 | 110-54-3   |      |
| 2-Hexanone                     | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 09:01 | 591-78-6   |      |
| Iodomethane                    | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 09:01 | 74-88-4    |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Michigan Street ER

Pace Project No.: 50128192

Sample: MWER-02 Lab ID: 50128192002 Collected: 09/21/15 15:10 Received: 09/21/15 16:11 Matrix: Solid

Results reported on a "wet-weight" basis

| Parameters                        | Results | Units                       | Report Limit | DF   | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------------|---------|-----------------------------|--------------|------|----------|----------------|-----------|------|
| <b>8260 MSV 5030 Low Level</b>    |         | Analytical Method: EPA 8260 |              |      |          |                |           |      |
| Isopropylbenzene (Cumene)         | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 98-82-8   |      |
| p-Isopropyltoluene                | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 99-87-6   |      |
| Methylene Chloride                | ND      | ug/kg                       | 100000       | 5000 |          | 09/23/15 09:01 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK)       | ND      | ug/kg                       | 125000       | 5000 |          | 09/23/15 09:01 | 108-10-1  |      |
| Methyl-tert-butyl ether           | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 1634-04-4 |      |
| Naphthalene                       | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 91-20-3   |      |
| n-Propylbenzene                   | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 103-65-1  |      |
| Styrene                           | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane         | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane         | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 79-34-5   |      |
| Tetrachloroethene                 | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 127-18-4  |      |
| Toluene                           | 70200   | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 108-88-3  | C8   |
| 1,2,3-Trichlorobenzene            | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene            | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 120-82-1  |      |
| 1,1,1-Trichloroethane             | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 71-55-6   |      |
| 1,1,2-Trichloroethane             | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 79-00-5   |      |
| Trichloroethene                   | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 79-01-6   |      |
| Trichlorofluoromethane            | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 75-69-4   |      |
| 1,2,3-Trichloropropane            | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene            | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene            | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 108-67-8  |      |
| Vinyl acetate                     | ND      | ug/kg                       | 500000       | 5000 |          | 09/23/15 09:01 | 108-05-4  |      |
| Vinyl chloride                    | ND      | ug/kg                       | 25000        | 5000 |          | 09/23/15 09:01 | 75-01-4   |      |
| Xylene (Total)                    | ND      | ug/kg                       | 50000        | 5000 |          | 09/23/15 09:01 | 1330-20-7 |      |
| <b>Surrogates</b>                 |         |                             |              |      |          |                |           |      |
| Dibromofluoromethane (S)          | 89      | %                           | 85-118       | 5000 |          | 09/23/15 09:01 | 1868-53-7 | D4   |
| Toluene-d8 (S)                    | 99      | %                           | 71-128       | 5000 |          | 09/23/15 09:01 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)          | 101     | %                           | 56-144       | 5000 |          | 09/23/15 09:01 | 460-00-4  |      |
| <b>1010 Flashpoint,Closed Cup</b> |         | Analytical Method: EPA 1010 |              |      |          |                |           |      |
| Flashpoint                        | 58      | deg F                       |              | 1    |          | 09/22/15 08:39 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Michigan Street ER

Pace Project No.: 50128192

Sample: MWER-06 Lab ID: 50128192003 Collected: 09/21/15 15:30 Received: 09/21/15 16:11 Matrix: Solid

Results reported on a "wet-weight" basis

| Parameters                     | Results   | Units                       | Report Limit | DF    | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|-----------|-----------------------------|--------------|-------|----------|----------------|------------|------|
| <b>8260 MSV 5030 Low Level</b> |           | Analytical Method: EPA 8260 |              |       |          |                |            |      |
| Acetone                        | 177000000 | ug/kg                       | 5000000      | 50000 |          | 09/23/15 09:49 | 67-64-1    | CH,E |
| Acrolein                       | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 09:33 | 107-02-8   |      |
| Acrylonitrile                  | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 09:33 | 107-13-1   |      |
| Benzene                        | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 71-43-2    |      |
| Bromobenzene                   | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 108-86-1   |      |
| Bromochloromethane             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 74-97-5    |      |
| Bromodichloromethane           | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 75-27-4    |      |
| Bromoform                      | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 75-25-2    |      |
| Bromomethane                   | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 74-83-9    |      |
| 2-Butanone (MEK)               | 1560000   | ug/kg                       | 125000       | 5000  |          | 09/23/15 09:33 | 78-93-3    |      |
| n-Butylbenzene                 | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 104-51-8   |      |
| sec-Butylbenzene               | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 135-98-8   |      |
| tert-Butylbenzene              | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 98-06-6    |      |
| Carbon disulfide               | ND        | ug/kg                       | 50000        | 5000  |          | 09/23/15 09:33 | 75-15-0    |      |
| Carbon tetrachloride           | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 56-23-5    |      |
| Chlorobenzene                  | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 108-90-7   |      |
| Chloroethane                   | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 75-00-3    |      |
| Chloroform                     | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 67-66-3    |      |
| Chloromethane                  | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 74-87-3    |      |
| 2-Chlorotoluene                | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 95-49-8    |      |
| 4-Chlorotoluene                | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 106-43-4   |      |
| Dibromochloromethane           | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 106-93-4   |      |
| Dibromomethane                 | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 09:33 | 110-57-6   |      |
| Dichlorodifluoromethane        | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 75-71-8    |      |
| 1,1-Dichloroethane             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 75-34-3    |      |
| 1,2-Dichloroethane             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 107-06-2   |      |
| 1,1-Dichloroethene             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 156-60-5   |      |
| 1,2-Dichloropropane            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 78-87-5    |      |
| 1,3-Dichloropropane            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 142-28-9   |      |
| 2,2-Dichloropropane            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 594-20-7   |      |
| 1,1-Dichloropropene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 563-58-6   |      |
| cis-1,3-Dichloropropene        | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 10061-02-6 |      |
| Ethylbenzene                   | 1700000   | ug/kg                       | 250000       | 50000 |          | 09/23/15 09:49 | 100-41-4   |      |
| Ethyl methacrylate             | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 09:33 | 97-63-2    |      |
| Hexachloro-1,3-butadiene       | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 87-68-3    |      |
| n-Hexane                       | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 110-54-3   |      |
| 2-Hexanone                     | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 09:33 | 591-78-6   |      |
| Iodomethane                    | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 09:33 | 74-88-4    |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Michigan Street ER

Pace Project No.: 50128192

Sample: MWER-06 Lab ID: 50128192003 Collected: 09/21/15 15:30 Received: 09/21/15 16:11 Matrix: Solid

Results reported on a "wet-weight" basis

| Parameters                        | Results   | Units                       | Report Limit | DF    | Prepared | Analyzed       | CAS No.   | Qual |
|-----------------------------------|-----------|-----------------------------|--------------|-------|----------|----------------|-----------|------|
| <b>8260 MSV 5030 Low Level</b>    |           | Analytical Method: EPA 8260 |              |       |          |                |           |      |
| Isopropylbenzene (Cumene)         | 35100     | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 98-82-8   |      |
| p-Isopropyltoluene                | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 99-87-6   |      |
| Methylene Chloride                | ND        | ug/kg                       | 100000       | 5000  |          | 09/23/15 09:33 | 75-09-2   |      |
| 4-Methyl-2-pentanone (MIBK)       | ND        | ug/kg                       | 125000       | 5000  |          | 09/23/15 09:33 | 108-10-1  |      |
| Methyl-tert-butyl ether           | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 1634-04-4 |      |
| Naphthalene                       | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 91-20-3   |      |
| n-Propylbenzene                   | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 103-65-1  |      |
| Styrene                           | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 100-42-5  |      |
| 1,1,1,2-Tetrachloroethane         | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane         | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 79-34-5   |      |
| Tetrachloroethene                 | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 127-18-4  |      |
| Toluene                           | 173000000 | ug/kg                       | 250000       | 50000 |          | 09/23/15 09:49 | 108-88-3  | E    |
| 1,2,3-Trichlorobenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 120-82-1  |      |
| 1,1,1-Trichloroethane             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 71-55-6   |      |
| 1,1,2-Trichloroethane             | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 79-00-5   |      |
| Trichloroethene                   | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 79-01-6   |      |
| Trichlorofluoromethane            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 75-69-4   |      |
| 1,2,3-Trichloropropane            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene            | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 108-67-8  |      |
| Vinyl acetate                     | ND        | ug/kg                       | 500000       | 5000  |          | 09/23/15 09:33 | 108-05-4  |      |
| Vinyl chloride                    | ND        | ug/kg                       | 25000        | 5000  |          | 09/23/15 09:33 | 75-01-4   |      |
| Xylene (Total)                    | 5570000   | ug/kg                       | 500000       | 50000 |          | 09/23/15 09:49 | 1330-20-7 |      |
| <b>Surrogates</b>                 |           |                             |              |       |          |                |           |      |
| Dibromofluoromethane (S)          | 94        | %                           | 85-118       | 5000  |          | 09/23/15 09:33 | 1868-53-7 | D4   |
| Toluene-d8 (S)                    | 94        | %                           | 71-128       | 5000  |          | 09/23/15 09:33 | 2037-26-5 |      |
| 4-Bromofluorobenzene (S)          | 107       | %                           | 56-144       | 5000  |          | 09/23/15 09:33 | 460-00-4  |      |
| <b>1010 Flashpoint,Closed Cup</b> |           | Analytical Method: EPA 1010 |              |       |          |                |           |      |
| Flashpoint                        | 60.00     | deg F                       |              | 1     |          | 09/23/15 09:19 |           |      |

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## ANALYTICAL RESULTS

Project: Michigan Street ER

Pace Project No.: 50128192

| <b>Sample: MWER-03</b> |             | <b>Lab ID: 50128192004</b>  | Collected: 09/21/15 15:15 | Received: 09/21/15 16:11 | Matrix: Water |                |         |      |
|------------------------|-------------|-----------------------------|---------------------------|--------------------------|---------------|----------------|---------|------|
| Parameters             | Results     | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No. | Qual |
| <b>9045 pH Soil</b>    |             | Analytical Method: EPA 9045 |                           |                          |               |                |         |      |
| pH at 25 Degrees C     | <b>0.84</b> | Std. Units                  | 0.10                      | 1                        |               | 09/23/15 12:32 |         |      |

PRELIMINARY

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## ANALYTICAL RESULTS

Project: Michigan Street ER

Pace Project No.: 50128192

|                    |  |                             |            |                           |    |                          |          |               |      |
|--------------------|--|-----------------------------|------------|---------------------------|----|--------------------------|----------|---------------|------|
| Sample: MWER-04    |  | Lab ID: 50128192005         |            | Collected: 09/21/15 15:17 |    | Received: 09/21/15 16:11 |          | Matrix: Water |      |
| Parameters         |  | Results                     | Units      | Report Limit              | DF | Prepared                 | Analyzed | CAS No.       | Qual |
| 9045 pH Soil       |  | Analytical Method: EPA 9045 |            |                           |    |                          |          |               |      |
| pH at 25 Degrees C |  | 13.4                        | Std. Units | 0.10                      | 1  | 09/23/15 12:34           |          |               |      |

PRELIMINARY

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## ANALYTICAL RESULTS

Project: Michigan Street ER

Pace Project No.: 50128192

|                    |  |                             |            |                           |    |                          |          |               |      |
|--------------------|--|-----------------------------|------------|---------------------------|----|--------------------------|----------|---------------|------|
| Sample: MWER-05    |  | Lab ID: 50128192006         |            | Collected: 09/21/15 15:20 |    | Received: 09/21/15 16:11 |          | Matrix: Water |      |
| Parameters         |  | Results                     | Units      | Report Limit              | DF | Prepared                 | Analyzed | CAS No.       | Qual |
| 9045 pH Soil       |  | Analytical Method: EPA 9045 |            |                           |    |                          |          |               |      |
| pH at 25 Degrees C |  | 12.6                        | Std. Units | 0.10                      | 1  | 09/23/15 12:45           |          |               |      |

PRELIMINARY

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## QUALITY CONTROL DATA

Project: Michigan Street ER

Pace Project No.: 50128192

QC Batch: MSV/81684

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5030 Low

Associated Lab Samples: 50128192001, 50128192002, 50128192003

METHOD BLANK: 1385934

Matrix: Solid

Associated Lab Samples: 50128192001, 50128192002, 50128192003

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,1,1-Trichloroethane       | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,1,2-Trichloroethane       | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,1-Dichloroethane          | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,1-Dichloroethene          | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,1-Dichloropropene         | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,2,3-Trichloropropane      | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,2,4-Trichlorobenzene      | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,2-Dichlorobenzene         | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,2-Dichloroethane          | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,2-Dichloropropane         | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,3-Dichlorobenzene         | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,3-Dichloropropane         | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 1,4-Dichlorobenzene         | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 2,2-Dichloropropane         | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 2-Butanone (MEK)            | ug/kg | ND           | 25.0            | 09/23/15 07:57 |            |
| 2-Chlorotoluene             | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 2-Hexanone                  | ug/kg | ND           | 100             | 09/23/15 07:57 |            |
| 4-Chlorotoluene             | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND           | 25.0            | 09/23/15 07:57 |            |
| Acetone                     | ug/kg | ND           | 100             | 09/23/15 07:57 |            |
| Acrolein                    | ug/kg | ND           | 100             | 09/23/15 07:57 |            |
| Acrylonitrile               | ug/kg | ND           | 100             | 09/23/15 07:57 |            |
| Benzene                     | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Bromobenzene                | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Bromochloromethane          | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Bromodichloromethane        | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Bromoform                   | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Bromomethane                | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Carbon disulfide            | ug/kg | ND           | 10.0            | 09/23/15 07:57 |            |
| Carbon tetrachloride        | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Chlorobenzene               | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Chloroethane                | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Chloroform                  | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Chloromethane               | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| cis-1,2-Dichloroethene      | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALITY CONTROL DATA

Project: Michigan Street ER

Pace Project No.: 50128192

METHOD BLANK: 1385934

Matrix: Solid

Associated Lab Samples: 50128192001, 50128192002, 50128192003

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,3-Dichloropropene     | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Dibromochloromethane        | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Dibromomethane              | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Dichlorodifluoromethane     | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Ethyl methacrylate          | ug/kg | ND           | 100             | 09/23/15 07:57 |            |
| Ethylbenzene                | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Hexachloro-1,3-butadiene    | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Iodomethane                 | ug/kg | ND           | 100             | 09/23/15 07:57 |            |
| Isopropylbenzene (Cumene)   | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Methyl-tert-butyl ether     | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Methylene Chloride          | ug/kg | ND           | 20.0            | 09/23/15 07:57 |            |
| n-Butylbenzene              | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| n-Hexane                    | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| n-Propylbenzene             | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Naphthalene                 | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| p-Isopropyltoluene          | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| sec-Butylbenzene            | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Styrene                     | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| tert-Butylbenzene           | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Tetrachloroethene           | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Toluene                     | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| trans-1,2-Dichloroethene    | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| trans-1,3-Dichloropropene   | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | ND           | 100             | 09/23/15 07:57 |            |
| Trichloroethene             | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Trichlorofluoromethane      | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Vinyl acetate               | ug/kg | ND           | 100             | 09/23/15 07:57 |            |
| Vinyl chloride              | ug/kg | ND           | 5.0             | 09/23/15 07:57 |            |
| Xylene (Total)              | ug/kg | ND           | 10.0            | 09/23/15 07:57 |            |
| 4-Bromofluorobenzene (S)    | %     | 95           | 56-144          | 09/23/15 07:57 |            |
| Dibromofluoromethane (S)    | %     | 86           | 85-118          | 09/23/15 07:57 |            |
| Toluene-d8 (S)              | %     | 105          | 71-128          | 09/23/15 07:57 |            |

LABORATORY CONTROL SAMPLE: 1385935

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane     | ug/kg | 50          | 45.2       | 90        | 70-123       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 50          | 44.7       | 89        | 65-124       |            |
| 1,1-Dichloroethene        | ug/kg | 50          | 51.2       | 102       | 66-126       |            |
| 1,2,4-Trimethylbenzene    | ug/kg | 50          | 44.2       | 88        | 67-126       |            |
| 1,2-Dichloropropane       | ug/kg | 50          | 46.2       | 92        | 75-118       |            |
| Benzene                   | ug/kg | 50          | 47.7       | 95        | 74-119       |            |
| Chlorobenzene             | ug/kg | 50          | 46.9       | 94        | 77-122       |            |
| Chloroform                | ug/kg | 50          | 45.4       | 91        | 75-124       |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALITY CONTROL DATA

Project: Michigan Street ER

Pace Project No.: 50128192

LABORATORY CONTROL SAMPLE: 1385935

| Parameter                 | Units | Spike<br>Conc. | LCS<br>Result | LCS<br>% Rec | % Rec<br>Limits | Qualifiers |
|---------------------------|-------|----------------|---------------|--------------|-----------------|------------|
| Ethylbenzene              | ug/kg | 50             | 47.6          | 95           | 72-123          |            |
| Isopropylbenzene (Cumene) | ug/kg | 50             | 53.4          | 107          | 65-123          |            |
| Methyl-tert-butyl ether   | ug/kg | 50             | 47.0          | 94           | 68-120          |            |
| Naphthalene               | ug/kg | 50             | 42.5          | 85           | 67-131          |            |
| Tetrachloroethene         | ug/kg | 50             | 49.7          | 99           | 72-126          |            |
| Toluene                   | ug/kg | 50             | 50.0          | 100          | 71-121          |            |
| Trichloroethene           | ug/kg | 50             | 45.9          | 92           | 74-123          |            |
| Vinyl chloride            | ug/kg | 50             | 35.0          | 70           | 55-128          |            |
| Xylene (Total)            | ug/kg | 150            | 145           | 97           | 66-124          |            |
| 4-Bromofluorobenzene (S)  | %.    |                |               | 102          | 56-144          |            |
| Dibromofluoromethane (S)  | %.    |                |               | 89           | 85-118          |            |
| Toluene-d8 (S)            | %.    |                |               | 105          | 71-128          |            |

PRELIMINARY

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## QUALITY CONTROL DATA

Project: Michigan Street ER

Pace Project No.: 50128192

QC Batch: WET/24486

Analysis Method: EPA 9045

QC Batch Method: EPA 9045

Analysis Description: 9045 pH

Associated Lab Samples: 50128192004, 50128192005, 50128192006

SAMPLE DUPLICATE: 1385937

| Parameter          | Units      | 50128166001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|--------------------|------------|-----------------------|---------------|-----|------------|------------|
| pH at 25 Degrees C | Std. Units | 10.3                  | 10.3          | 0   | 20         |            |

SAMPLE DUPLICATE: 1385938

| Parameter          | Units      | 50128192006<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|--------------------|------------|-----------------------|---------------|-----|------------|------------|
| pH at 25 Degrees C | Std. Units | 12.6                  | 12.6          | 0   | 20         |            |

PRELIMINARY

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## QUALIFIERS

Project: Michigan Street ER

Pace Project No.: 50128192

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- |    |                                                                                                                               |
|----|-------------------------------------------------------------------------------------------------------------------------------|
| 1d | The sample never did flash, but it caught on fire at 140 degree F.                                                            |
| C8 | Result may be biased high due to carryover from previously analyzed sample.                                                   |
| CH | The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high. |
| D4 | Sample was diluted due to the presence of high levels of target analytes.                                                     |
| E  | Analyte concentration exceeded the calibration range. The reported result is estimated.                                       |
| S5 | Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).                         |

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Michigan Street ER

Pace Project No.: 50128192

| Lab ID      | Sample ID | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|-----------|-------------------|------------------|
| 50128192001 | MWER-01   | EPA 8260        | MSV/81684 |                   |                  |
| 50128192002 | MWER-02   | EPA 8260        | MSV/81684 |                   |                  |
| 50128192003 | MWER-06   | EPA 8260        | MSV/81684 |                   |                  |
| 50128192001 | MWER-01   | EPA 1010        | WET/24467 |                   |                  |
| 50128192002 | MWER-02   | EPA 1010        | WET/24467 |                   |                  |
| 50128192003 | MWER-06   | EPA 1010        | WET/24467 |                   |                  |
| 50128192004 | MWER-03   | EPA 9045        | WET/24486 |                   |                  |
| 50128192005 | MWER-04   | EPA 9045        | WET/24486 |                   |                  |
| 50128192006 | MWER-05   | EPA 9045        | WET/24486 |                   |                  |

PRELIMINARY

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