**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

April 27, 2010

Alice Larsen
COP_Stantec Oregon
7730 SW Mohawk Street
Tualatin, OR 97062

RE: Project: 00922 - Storm Water
Pace Project No.: 253365

Dear Alice Larsen:
Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The pesticides samples were extracted outside the EPA method holding time of seven days due to a lab oversight. The client was notified immediately of this error. In addition, a corrective action process was developed to prevent this from happening in the future.

All analyses for work order 253365 were canceled by the client. Shortly after this request was made, the client changed their request and needed all data originally requested. This change in request was too late to recover any TOC data. Therefore, no data are available for this analysis.

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

Sincerely,

Jennifer Gross

jennifer.gross@pacelabs.com
Project Manager



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060



Enclosures

cc: Mark Bare, COP_Stantec Oregon
Chris Carlton-Franco, Stantec
Janet Nash, Stantec
Mark Trewartha, Stantec



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

## CERTIFICATIONS

| | |
|---|---|
| Project: | 00922 - Storm Water |
| Pace Project No.: | 253365 |

**Washington Certification IDs**

Alaska CS Certification #: UST-025
Alaska Drinking Water VOC Certification #: WA01-09
Alaska Drinking Water Micro Certification #: WA01230
940 South Harney Street Seattle, WA 98108
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C1229
California Certification #: 01153CA



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

## SAMPLE SUMMARY

Project: 00922 - Storm Water
Pace Project No.: 253365

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **253365001** | **MH-12 (4" Line)** | Water | 03/25/10 08:45 | 03/27/10 09:30 |
| **253365002** | **MH-12 (12" Line)** | Water | 03/25/10 11:30 | 03/27/10 09:30 |
| **253365003** | **MH-3** | Water | 03/25/10 12:00 | 03/27/10 09:30 |
| **253365004** | **Trip Blank** | Water | 03/25/10 00:00 | 03/27/10 09:30 |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

## SAMPLE ANALYTE COUNT

Project: 00922 - Storm Water
Pace Project No.: 253365

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **253365001** | **MH-12 (4" Line)** | EPA 8082 | DMT | 9 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LPM | 3 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 | DMT | 12 | PASI-S |
| | | EPA 8270 by SIM | ATH | 16 | PASI-S |
| | | EPA 5030B/8260 | LPM | 71 | PASI-S |
| | | SM 2540D | KMT | 1 | PASI-S |
| | | EPA 9012A | CMS | 1 | PASI-S |
| **253365002** | **MH-12 (12" Line)** | EPA 8082 | DMT | 9 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LPM | 3 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 | DMT | 12 | PASI-S |
| | | EPA 8270 by SIM | ATH | 16 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | KMT | 1 | PASI-S |
| | | EPA 9012A | CMS | 1 | PASI-S |
| **253365003** | **MH-3** | EPA 8082 | DMT | 9 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LPM | 3 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 | DMT | 12 | PASI-S |
| | | EPA 8270 by SIM | ATH | 16 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | KMT | 1 | PASI-S |
| | | EPA 9012A | CMS | 1 | PASI-S |
| **253365004** | **Trip Blank** | NWTPH-Gx | LPM | 3 | PASI-S |
| | | EPA 5030B/8260 | LPM | 71 | PASI-S |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253365

**Sample: MH-12 (4" Line)** **Lab ID: 253365001** Collected: 03/25/10 08:45 Received: 03/27/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.13** | ug/L | 0.47 | 0.13 | 1 | 03/31/10 11:20 | 04/10/10 20:43 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.15** | ug/L | 0.47 | 0.15 | 1 | 03/31/10 11:20 | 04/10/10 20:43 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.21** | ug/L | 0.47 | 0.21 | 1 | 03/31/10 11:20 | 04/10/10 20:43 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.17** | ug/L | 0.47 | 0.17 | 1 | 03/31/10 11:20 | 04/10/10 20:43 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.094** | ug/L | 0.47 | 0.094 | 1 | 03/31/10 11:20 | 04/10/10 20:43 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.47** | ug/L | 0.47 | 0.47 | 1 | 03/31/10 11:20 | 04/10/10 20:43 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.26** | ug/L | 0.47 | 0.26 | 1 | 03/31/10 11:20 | 04/10/10 20:43 | 11096-82-5 | |
| Tetrachloro-m-xylene (S) | 91 | % | 64-120 | | 1 | 03/31/10 11:20 | 04/10/10 20:43 | 877-09-8 | |
| Decachlorobiphenyl (S) | 107 | % | 44-120 | | 1 | 03/31/10 11:20 | 04/10/10 20:43 | 2051-24-3 | |
| **NWTPH-Dx GCS** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range | **0.072J** | mg/L | 0.075 | 0.019 | 1 | 04/02/10 15:50 | 04/06/10 02:01 | | |
| Motor Oil Range | **0.065J** | mg/L | 0.38 | 0.028 | 1 | 04/02/10 15:50 | 04/06/10 02:01 | 64742-65-0 | |
| n-Octacosane (S) | 102 | % | 50-150 | | 1 | 04/02/10 15:50 | 04/06/10 02:01 | 630-02-4 | |
| o-Terphenyl (S) | 92 | % | 50-150 | | 1 | 04/02/10 15:50 | 04/06/10 02:01 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **20.4J** | ug/L | 50.0 | 13.4 | 1 | | 03/31/10 09:35 | | |
| a,a,a-Trifluorotoluene (S) | 102 | % | 50-150 | | 1 | | 03/31/10 09:35 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 87 | % | 50-150 | | 1 | | 03/31/10 09:35 | 460-00-4 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 04/05/10 12:13 | 04/05/10 15:42 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 04/05/10 12:13 | 04/05/10 16:01 | 7439-97-6 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **<0.46** | ug/L | 5.0 | 0.46 | 1 | 03/31/10 11:15 | 03/31/10 20:06 | 85-68-7 | |
| Di-n-butylphthalate | **<0.47** | ug/L | 5.0 | 0.47 | 1 | 03/31/10 11:15 | 03/31/10 20:06 | 84-74-2 | |
| Di-n-octylphthalate | **<0.50** | ug/L | 5.0 | 0.50 | 1 | 03/31/10 11:15 | 03/31/10 20:06 | 117-84-0 | |
| Diethylphthalate | **<2.5** | ug/L | 5.0 | 2.5 | 1 | 03/31/10 11:15 | 03/31/10 20:06 | 84-66-2 | |
| Dimethylphthalate | **<0.28** | ug/L | 5.0 | 0.28 | 1 | 03/31/10 11:15 | 03/31/10 20:06 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<1.0** | ug/L | 5.0 | 1.0 | 1 | 03/31/10 11:15 | 03/31/10 20:06 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 80 | % | 38-121 | | 1 | 03/31/10 11:15 | 03/31/10 20:06 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 75 | % | 40-110 | | 1 | 03/31/10 11:15 | 03/31/10 20:06 | 321-60-8 | |
| Terphenyl-d14 (S) | 81 | % | 26-130 | | 1 | 03/31/10 11:15 | 03/31/10 20:06 | 1718-51-0 | |
| Phenol-d6 (S) | 22 | % | 11-120 | | 1 | 03/31/10 11:15 | 03/31/10 20:06 | 13127-88-3 | |
| 2-Fluorophenol (S) | 23 | % | 20-120 | | 1 | 03/31/10 11:15 | 03/31/10 20:06 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 40 | % | 37-120 | | 1 | 03/31/10 11:15 | 03/31/10 20:06 | 118-79-6 | |
| **8270 MSSV PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| Acenaphthene | **<0.032** | ug/L | 0.20 | 0.032 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 83-32-9 | |
| Acenaphthylene | **<0.029** | ug/L | 0.20 | 0.029 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 208-96-8 | |
| Anthracene | **<0.019** | ug/L | 0.20 | 0.019 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 120-12-7 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253365

**Sample: MH-12 (4" Line)** **Lab ID: 253365001** Collected: 03/25/10 08:45 Received: 03/27/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270 MSSV PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| Benzo(a)anthracene | **<0.021** | ug/L | 0.20 | 0.021 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 56-55-3 | |
| Benzo(a)pyrene | **<0.019** | ug/L | 0.20 | 0.019 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 50-32-8 | |
| Benzo(b)fluoranthene | **<0.028** | ug/L | 0.20 | 0.028 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 205-99-2 | |
| Benzo(g,h,i)perylene | **<0.028** | ug/L | 0.20 | 0.028 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 191-24-2 | |
| Benzo(k)fluoranthene | **<0.028** | ug/L | 0.20 | 0.028 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 207-08-9 | |
| Chrysene | **<0.027** | ug/L | 0.20 | 0.027 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.031** | ug/L | 0.20 | 0.031 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 53-70-3 | |
| Fluoranthene | **<0.024** | ug/L | 0.20 | 0.024 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 206-44-0 | |
| Fluorene | **<0.028** | ug/L | 0.20 | 0.028 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.032** | ug/L | 0.20 | 0.032 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 193-39-5 | |
| Naphthalene | **<0.046** | ug/L | 0.20 | 0.046 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 91-20-3 | |
| Phenanthrene | **<0.033** | ug/L | 0.20 | 0.033 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 85-01-8 | |
| Pyrene | **<0.027** | ug/L | 0.20 | 0.027 | 1 | 03/31/10 11:15 | 04/01/10 16:39 | 129-00-0 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Acetone | **<0.75** | ug/L | 5.0 | 0.75 | 1 | | 04/05/10 18:22 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/05/10 18:22 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 18:22 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/05/10 18:22 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/05/10 18:22 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/05/10 18:22 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/05/10 18:22 | 74-83-9 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/05/10 18:22 | 78-93-3 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/05/10 18:22 | 104-51-8 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/05/10 18:22 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/05/10 18:22 | 98-06-6 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 18:22 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/05/10 18:22 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/05/10 18:22 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/05/10 18:22 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/05/10 18:22 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/05/10 18:22 | 74-87-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/05/10 18:22 | 95-49-8 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/05/10 18:22 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/05/10 18:22 | 96-12-8 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/05/10 18:22 | 124-48-1 | L2 |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/05/10 18:22 | 106-93-4 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/05/10 18:22 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/05/10 18:22 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 18:22 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/05/10 18:22 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/05/10 18:22 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/05/10 18:22 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/05/10 18:22 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/05/10 18:22 | 540-59-0 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/05/10 18:22 | 75-35-4 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253365

**Sample: MH-12 (4" Line)** **Lab ID: 253365001** Collected: 03/25/10 08:45 Received: 03/27/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/05/10 18:22 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/05/10 18:22 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 18:22 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/05/10 18:22 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/05/10 18:22 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/05/10 18:22 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/05/10 18:22 | 10061-01-5 | L2 |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 18:22 | 10061-02-6 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/05/10 18:22 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/05/10 18:22 | 87-68-3 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/05/10 18:22 | 591-78-6 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/05/10 18:22 | 98-82-8 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/05/10 18:22 | 99-87-6 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/05/10 18:22 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/05/10 18:22 | 108-10-1 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 18:22 | 1634-04-4 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/05/10 18:22 | 91-20-3 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 18:22 | 103-65-1 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/05/10 18:22 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/05/10 18:22 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/05/10 18:22 | 79-34-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/05/10 18:22 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/05/10 18:22 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/05/10 18:22 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/05/10 18:22 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/05/10 18:22 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/05/10 18:22 | 79-00-5 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/05/10 18:22 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/05/10 18:22 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/05/10 18:22 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/05/10 18:22 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 18:22 | 108-67-8 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/05/10 18:22 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/05/10 18:22 | 1330-20-7 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/05/10 18:22 | 1330-20-7 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/05/10 18:22 | 95-47-6 | |
| 4-Bromofluorobenzene (S) | 98 | % | 80-120 | | 1 | | 04/05/10 18:22 | 460-00-4 | |
| Dibromofluoromethane (S) | 97 | % | 80-122 | | 1 | | 04/05/10 18:22 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 102 | % | 80-124 | | 1 | | 04/05/10 18:22 | 17060-07-0 | |
| Toluene-d8 (S) | 97 | % | 80-123 | | 1 | | 04/05/10 18:22 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **<2.0** | mg/L | 2.0 | 2.0 | 1 | | 03/30/10 15:30 | | |
| **9012 Cyanide, Total** | Analytical Method: EPA 9012A Preparation Method: EPA 9012A | | | | | | | | |
| Cyanide | **<0.0012** | mg/L | 0.010 | 0.0012 | 1 | 04/01/10 15:45 | 04/01/10 15:06 | 57-12-5 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253365

**Sample: MH-12 (12" Line)** **Lab ID: 253365002** Collected: 03/25/10 11:30 Received: 03/27/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.13** | ug/L | 0.47 | 0.13 | 1 | 03/31/10 11:20 | 04/10/10 21:03 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.15** | ug/L | 0.47 | 0.15 | 1 | 03/31/10 11:20 | 04/10/10 21:03 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.21** | ug/L | 0.47 | 0.21 | 1 | 03/31/10 11:20 | 04/10/10 21:03 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.17** | ug/L | 0.47 | 0.17 | 1 | 03/31/10 11:20 | 04/10/10 21:03 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.095** | ug/L | 0.47 | 0.095 | 1 | 03/31/10 11:20 | 04/10/10 21:03 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.47** | ug/L | 0.47 | 0.47 | 1 | 03/31/10 11:20 | 04/10/10 21:03 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.27** | ug/L | 0.47 | 0.27 | 1 | 03/31/10 11:20 | 04/10/10 21:03 | 11096-82-5 | |
| Tetrachloro-m-xylene (S) | 95 | % | 64-120 | | 1 | 03/31/10 11:20 | 04/10/10 21:03 | 877-09-8 | |
| Decachlorobiphenyl (S) | 104 | % | 44-120 | | 1 | 03/31/10 11:20 | 04/10/10 21:03 | 2051-24-3 | |
| **NWTPH-Dx GCS** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range | **0.45** | mg/L | 0.076 | 0.019 | 1 | 04/02/10 15:50 | 04/06/10 05:45 | | |
| Motor Oil Range | **0.93** | mg/L | 0.38 | 0.029 | 1 | 04/02/10 15:50 | 04/06/10 05:45 | 64742-65-0 | |
| n-Octacosane (S) | 97 | % | 50-150 | | 1 | 04/02/10 15:50 | 04/06/10 05:45 | 630-02-4 | |
| o-Terphenyl (S) | 93 | % | 50-150 | | 1 | 04/02/10 15:50 | 04/06/10 05:45 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **22.9J** | ug/L | 50.0 | 13.4 | 1 | | 03/31/10 09:59 | | |
| a,a,a-Trifluorotoluene (S) | 102 | % | 50-150 | | 1 | | 03/31/10 09:59 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 89 | % | 50-150 | | 1 | | 03/31/10 09:59 | 460-00-4 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 04/05/10 12:13 | 04/05/10 15:44 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 04/05/10 12:13 | 04/05/10 16:03 | 7439-97-6 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **<0.45** | ug/L | 4.9 | 0.45 | 1 | 03/31/10 11:15 | 03/31/10 20:29 | 85-68-7 | |
| Di-n-butylphthalate | **<0.46** | ug/L | 4.9 | 0.46 | 1 | 03/31/10 11:15 | 03/31/10 20:29 | 84-74-2 | |
| Di-n-octylphthalate | **<0.49** | ug/L | 4.9 | 0.49 | 1 | 03/31/10 11:15 | 03/31/10 20:29 | 117-84-0 | |
| Diethylphthalate | **<2.4** | ug/L | 4.9 | 2.4 | 1 | 03/31/10 11:15 | 03/31/10 20:29 | 84-66-2 | |
| Dimethylphthalate | **<0.27** | ug/L | 4.9 | 0.27 | 1 | 03/31/10 11:15 | 03/31/10 20:29 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.97** | ug/L | 4.9 | 0.97 | 1 | 03/31/10 11:15 | 03/31/10 20:29 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 74 | % | 38-121 | | 1 | 03/31/10 11:15 | 03/31/10 20:29 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 73 | % | 40-110 | | 1 | 03/31/10 11:15 | 03/31/10 20:29 | 321-60-8 | |
| Terphenyl-d14 (S) | 83 | % | 26-130 | | 1 | 03/31/10 11:15 | 03/31/10 20:29 | 1718-51-0 | |
| Phenol-d6 (S) | 29 | % | 11-120 | | 1 | 03/31/10 11:15 | 03/31/10 20:29 | 13127-88-3 | |
| 2-Fluorophenol (S) | 41 | % | 20-120 | | 1 | 03/31/10 11:15 | 03/31/10 20:29 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 78 | % | 37-120 | | 1 | 03/31/10 11:15 | 03/31/10 20:29 | 118-79-6 | |
| **8270 MSSV PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| Acenaphthene | **<0.031** | ug/L | 0.19 | 0.031 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 83-32-9 | |
| Acenaphthylene | **<0.028** | ug/L | 0.19 | 0.028 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 208-96-8 | |
| Anthracene | **<0.019** | ug/L | 0.19 | 0.019 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 120-12-7 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253365

**Sample: MH-12 (12" Line)** **Lab ID: 253365002** Collected: 03/25/10 11:30 Received: 03/27/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270 MSSV PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| Benzo(a)anthracene | **<0.020** | ug/L | 0.19 | 0.020 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 56-55-3 | |
| Benzo(a)pyrene | **<0.019** | ug/L | 0.19 | 0.019 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 50-32-8 | |
| Benzo(b)fluoranthene | **<0.027** | ug/L | 0.19 | 0.027 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 205-99-2 | |
| Benzo(g,h,i)perylene | **<0.027** | ug/L | 0.19 | 0.027 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 191-24-2 | |
| Benzo(k)fluoranthene | **<0.027** | ug/L | 0.19 | 0.027 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 207-08-9 | |
| Chrysene | **<0.026** | ug/L | 0.19 | 0.026 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.030** | ug/L | 0.19 | 0.030 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 53-70-3 | |
| Fluoranthene | **<0.023** | ug/L | 0.19 | 0.023 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 206-44-0 | |
| Fluorene | **<0.027** | ug/L | 0.19 | 0.027 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.031** | ug/L | 0.19 | 0.031 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 193-39-5 | |
| Naphthalene | **0.11J** | ug/L | 0.19 | 0.045 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 91-20-3 | |
| Phenanthrene | **<0.032** | ug/L | 0.19 | 0.032 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 85-01-8 | |
| Pyrene | **<0.026** | ug/L | 0.19 | 0.026 | 1 | 03/31/10 11:15 | 04/01/10 16:55 | 129-00-0 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Acetone | **<0.75** | ug/L | 5.0 | 0.75 | 1 | | 04/02/10 16:02 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/02/10 16:02 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:02 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/02/10 16:02 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/02/10 16:02 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/02/10 16:02 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/02/10 16:02 | 74-83-9 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/02/10 16:02 | 78-93-3 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/02/10 16:02 | 104-51-8 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/02/10 16:02 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/02/10 16:02 | 98-06-6 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:02 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/02/10 16:02 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/02/10 16:02 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/02/10 16:02 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/02/10 16:02 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/02/10 16:02 | 74-87-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/02/10 16:02 | 95-49-8 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/02/10 16:02 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/02/10 16:02 | 96-12-8 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/02/10 16:02 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/02/10 16:02 | 106-93-4 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/02/10 16:02 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/02/10 16:02 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:02 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/02/10 16:02 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/02/10 16:02 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/02/10 16:02 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/02/10 16:02 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/02/10 16:02 | 540-59-0 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/02/10 16:02 | 75-35-4 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253365

**Sample: MH-12 (12" Line)** **Lab ID: 253365002** Collected: 03/25/10 11:30 Received: 03/27/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/02/10 16:02 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/02/10 16:02 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:02 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/02/10 16:02 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/02/10 16:02 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/02/10 16:02 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/02/10 16:02 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:02 | 10061-02-6 | |
| Ethylbenzene | **1.2** | ug/L | 1.0 | 0.20 | 1 | | 04/02/10 16:02 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/02/10 16:02 | 87-68-3 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/02/10 16:02 | 591-78-6 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/02/10 16:02 | 98-82-8 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/02/10 16:02 | 99-87-6 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/02/10 16:02 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/02/10 16:02 | 108-10-1 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:02 | 1634-04-4 | |
| Naphthalene | **0.13J** | ug/L | 1.0 | 0.10 | 1 | | 04/02/10 16:02 | 91-20-3 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:02 | 103-65-1 | |
| Styrene | **0.20J** | ug/L | 1.0 | 0.074 | 1 | | 04/02/10 16:02 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/02/10 16:02 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/02/10 16:02 | 79-34-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/02/10 16:02 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/02/10 16:02 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/02/10 16:02 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/02/10 16:02 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/02/10 16:02 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/02/10 16:02 | 79-00-5 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/02/10 16:02 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/02/10 16:02 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/02/10 16:02 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/02/10 16:02 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:02 | 108-67-8 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/02/10 16:02 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/02/10 16:02 | 1330-20-7 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/02/10 16:02 | 1330-20-7 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/02/10 16:02 | 95-47-6 | |
| 4-Bromofluorobenzene (S) | 95 | % | 80-120 | | 1 | | 04/02/10 16:02 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 80-122 | | 1 | | 04/02/10 16:02 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 99 | % | 80-124 | | 1 | | 04/02/10 16:02 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 80-123 | | 1 | | 04/02/10 16:02 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **6.0** | mg/L | 2.0 | 2.0 | 1 | | 03/30/10 15:30 | | |
| **9012 Cyanide, Total** | Analytical Method: EPA 9012A Preparation Method: EPA 9012A | | | | | | | | |
| Cyanide | **<0.0012** | mg/L | 0.010 | 0.0012 | 1 | 04/01/10 15:45 | 04/01/10 15:10 | 57-12-5 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253365

**Sample: MH-3** **Lab ID: 253365003** Collected: 03/25/10 12:00 Received: 03/27/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.14** | ug/L | 0.50 | 0.14 | 1 | 03/31/10 11:20 | 04/10/10 21:24 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.16** | ug/L | 0.50 | 0.16 | 1 | 03/31/10 11:20 | 04/10/10 21:24 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.22** | ug/L | 0.50 | 0.22 | 1 | 03/31/10 11:20 | 04/10/10 21:24 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.18** | ug/L | 0.50 | 0.18 | 1 | 03/31/10 11:20 | 04/10/10 21:24 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.099** | ug/L | 0.50 | 0.099 | 1 | 03/31/10 11:20 | 04/10/10 21:24 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.50** | ug/L | 0.50 | 0.50 | 1 | 03/31/10 11:20 | 04/10/10 21:24 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.28** | ug/L | 0.50 | 0.28 | 1 | 03/31/10 11:20 | 04/10/10 21:24 | 11096-82-5 | |
| Tetrachloro-m-xylene (S) | 93 | % | 64-120 | | 1 | 03/31/10 11:20 | 04/10/10 21:24 | 877-09-8 | |
| Decachlorobiphenyl (S) | 106 | % | 44-120 | | 1 | 03/31/10 11:20 | 04/10/10 21:24 | 2051-24-3 | |
| **NWTPH-Dx GCS** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range | **0.036J** | mg/L | 0.076 | 0.019 | 1 | 04/02/10 15:50 | 04/06/10 02:17 | | |
| Motor Oil Range | **<0.029** | mg/L | 0.38 | 0.029 | 1 | 04/02/10 15:50 | 04/06/10 02:17 | 64742-65-0 | |
| n-Octacosane (S) | 104 | % | 50-150 | | 1 | 04/02/10 15:50 | 04/06/10 02:17 | 630-02-4 | |
| o-Terphenyl (S) | 90 | % | 50-150 | | 1 | 04/02/10 15:50 | 04/06/10 02:17 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **<13.4** | ug/L | 50.0 | 13.4 | 1 | | 03/31/10 10:22 | | |
| a,a,a-Trifluorotoluene (S) | 104 | % | 50-150 | | 1 | | 03/31/10 10:22 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 92 | % | 50-150 | | 1 | | 03/31/10 10:22 | 460-00-4 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 04/05/10 12:13 | 04/05/10 15:51 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 04/05/10 12:13 | 04/05/10 16:09 | 7439-97-6 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **<0.44** | ug/L | 4.8 | 0.44 | 1 | 03/31/10 11:15 | 03/31/10 20:52 | 85-68-7 | |
| Di-n-butylphthalate | **<0.45** | ug/L | 4.8 | 0.45 | 1 | 03/31/10 11:15 | 03/31/10 20:52 | 84-74-2 | |
| Di-n-octylphthalate | **<0.48** | ug/L | 4.8 | 0.48 | 1 | 03/31/10 11:15 | 03/31/10 20:52 | 117-84-0 | |
| Diethylphthalate | **<2.4** | ug/L | 4.8 | 2.4 | 1 | 03/31/10 11:15 | 03/31/10 20:52 | 84-66-2 | |
| Dimethylphthalate | **<0.27** | ug/L | 4.8 | 0.27 | 1 | 03/31/10 11:15 | 03/31/10 20:52 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.95** | ug/L | 4.8 | 0.95 | 1 | 03/31/10 11:15 | 03/31/10 20:52 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 76 | % | 38-121 | | 1 | 03/31/10 11:15 | 03/31/10 20:52 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 74 | % | 40-110 | | 1 | 03/31/10 11:15 | 03/31/10 20:52 | 321-60-8 | |
| Terphenyl-d14 (S) | 85 | % | 26-130 | | 1 | 03/31/10 11:15 | 03/31/10 20:52 | 1718-51-0 | |
| Phenol-d6 (S) | 24 | % | 11-120 | | 1 | 03/31/10 11:15 | 03/31/10 20:52 | 13127-88-3 | |
| 2-Fluorophenol (S) | 27 | % | 20-120 | | 1 | 03/31/10 11:15 | 03/31/10 20:52 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 49 | % | 37-120 | | 1 | 03/31/10 11:15 | 03/31/10 20:52 | 118-79-6 | |
| **8270 MSSV PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| Acenaphthene | **<0.030** | ug/L | 0.19 | 0.030 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 83-32-9 | |
| Acenaphthylene | **<0.028** | ug/L | 0.19 | 0.028 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 208-96-8 | |
| Anthracene | **<0.018** | ug/L | 0.19 | 0.018 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 120-12-7 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253365

**Sample: MH-3** **Lab ID: 253365003** Collected: 03/25/10 12:00 Received: 03/27/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270 MSSV PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| Benzo(a)anthracene | **<0.020** | ug/L | 0.19 | 0.020 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 56-55-3 | |
| Benzo(a)pyrene | **<0.018** | ug/L | 0.19 | 0.018 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 50-32-8 | |
| Benzo(b)fluoranthene | **<0.027** | ug/L | 0.19 | 0.027 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 205-99-2 | |
| Benzo(g,h,i)perylene | **<0.027** | ug/L | 0.19 | 0.027 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 191-24-2 | |
| Benzo(k)fluoranthene | **<0.027** | ug/L | 0.19 | 0.027 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 207-08-9 | |
| Chrysene | **<0.026** | ug/L | 0.19 | 0.026 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.029** | ug/L | 0.19 | 0.029 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 53-70-3 | |
| Fluoranthene | **<0.023** | ug/L | 0.19 | 0.023 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 206-44-0 | |
| Fluorene | **<0.026** | ug/L | 0.19 | 0.026 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.030** | ug/L | 0.19 | 0.030 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 193-39-5 | |
| Naphthalene | **<0.044** | ug/L | 0.19 | 0.044 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 91-20-3 | |
| Phenanthrene | **<0.032** | ug/L | 0.19 | 0.032 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 85-01-8 | |
| Pyrene | **<0.026** | ug/L | 0.19 | 0.026 | 1 | 03/31/10 11:15 | 04/01/10 17:12 | 129-00-0 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Acetone | **<0.75** | ug/L | 5.0 | 0.75 | 1 | | 04/02/10 16:25 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/02/10 16:25 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:25 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/02/10 16:25 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/02/10 16:25 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/02/10 16:25 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/02/10 16:25 | 74-83-9 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/02/10 16:25 | 78-93-3 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/02/10 16:25 | 104-51-8 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/02/10 16:25 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/02/10 16:25 | 98-06-6 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:25 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/02/10 16:25 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/02/10 16:25 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/02/10 16:25 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/02/10 16:25 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/02/10 16:25 | 74-87-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/02/10 16:25 | 95-49-8 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/02/10 16:25 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/02/10 16:25 | 96-12-8 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/02/10 16:25 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/02/10 16:25 | 106-93-4 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/02/10 16:25 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/02/10 16:25 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:25 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/02/10 16:25 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/02/10 16:25 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/02/10 16:25 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/02/10 16:25 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/02/10 16:25 | 540-59-0 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/02/10 16:25 | 75-35-4 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253365

**Sample: MH-3** **Lab ID: 253365003** Collected: 03/25/10 12:00 Received: 03/27/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/02/10 16:25 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/02/10 16:25 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:25 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/02/10 16:25 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/02/10 16:25 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/02/10 16:25 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/02/10 16:25 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:25 | 10061-02-6 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/02/10 16:25 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/02/10 16:25 | 87-68-3 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/02/10 16:25 | 591-78-6 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/02/10 16:25 | 98-82-8 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/02/10 16:25 | 99-87-6 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/02/10 16:25 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/02/10 16:25 | 108-10-1 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:25 | 1634-04-4 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/02/10 16:25 | 91-20-3 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:25 | 103-65-1 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/02/10 16:25 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/02/10 16:25 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/02/10 16:25 | 79-34-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/02/10 16:25 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/02/10 16:25 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/02/10 16:25 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/02/10 16:25 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/02/10 16:25 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/02/10 16:25 | 79-00-5 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/02/10 16:25 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/02/10 16:25 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/02/10 16:25 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/02/10 16:25 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/02/10 16:25 | 108-67-8 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/02/10 16:25 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/02/10 16:25 | 1330-20-7 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/02/10 16:25 | 1330-20-7 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/02/10 16:25 | 95-47-6 | |
| 4-Bromofluorobenzene (S) | 94 | % | 80-120 | | 1 | | 04/02/10 16:25 | 460-00-4 | |
| Dibromofluoromethane (S) | 102 | % | 80-122 | | 1 | | 04/02/10 16:25 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 100 | % | 80-124 | | 1 | | 04/02/10 16:25 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 80-123 | | 1 | | 04/02/10 16:25 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **3.0** | mg/L | 2.0 | 2.0 | 1 | | 03/30/10 15:30 | | |
| **9012 Cyanide, Total** | Analytical Method: EPA 9012A Preparation Method: EPA 9012A | | | | | | | | |
| Cyanide | **<0.0012** | mg/L | 0.010 | 0.0012 | 1 | 04/01/10 15:45 | 04/01/10 15:11 | 57-12-5 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253365

**Sample: Trip Blank** **Lab ID: 253365004** Collected: 03/25/10 00:00 Received: 03/27/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **15.1J** | ug/L | 50.0 | 13.4 | 1 | | 03/31/10 02:41 | | |
| a,a,a-Trifluorotoluene (S) | 99 | % | 50-150 | | 1 | | 03/31/10 02:41 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 75 | % | 50-150 | | 1 | | 03/31/10 02:41 | 460-00-4 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Acetone | **<0.75** | ug/L | 5.0 | 0.75 | 1 | | 04/05/10 17:59 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/05/10 17:59 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 17:59 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/05/10 17:59 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/05/10 17:59 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/05/10 17:59 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/05/10 17:59 | 74-83-9 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/05/10 17:59 | 78-93-3 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/05/10 17:59 | 104-51-8 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/05/10 17:59 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/05/10 17:59 | 98-06-6 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 17:59 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/05/10 17:59 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/05/10 17:59 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/05/10 17:59 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/05/10 17:59 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/05/10 17:59 | 74-87-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/05/10 17:59 | 95-49-8 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/05/10 17:59 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/05/10 17:59 | 96-12-8 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/05/10 17:59 | 124-48-1 | L2 |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/05/10 17:59 | 106-93-4 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/05/10 17:59 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/05/10 17:59 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 17:59 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/05/10 17:59 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/05/10 17:59 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/05/10 17:59 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/05/10 17:59 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/05/10 17:59 | 540-59-0 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/05/10 17:59 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/05/10 17:59 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/05/10 17:59 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 17:59 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/05/10 17:59 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/05/10 17:59 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/05/10 17:59 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/05/10 17:59 | 10061-01-5 | L2 |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 17:59 | 10061-02-6 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/05/10 17:59 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/05/10 17:59 | 87-68-3 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253365

**Sample: Trip Blank** **Lab ID: 253365004** Collected: 03/25/10 00:00 Received: 03/27/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/05/10 17:59 | 591-78-6 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/05/10 17:59 | 98-82-8 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/05/10 17:59 | 99-87-6 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/05/10 17:59 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/05/10 17:59 | 108-10-1 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 17:59 | 1634-04-4 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/05/10 17:59 | 91-20-3 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 17:59 | 103-65-1 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/05/10 17:59 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/05/10 17:59 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/05/10 17:59 | 79-34-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/05/10 17:59 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/05/10 17:59 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/05/10 17:59 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/05/10 17:59 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/05/10 17:59 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/05/10 17:59 | 79-00-5 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/05/10 17:59 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/05/10 17:59 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/05/10 17:59 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/05/10 17:59 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/05/10 17:59 | 108-67-8 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/05/10 17:59 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/05/10 17:59 | 1330-20-7 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/05/10 17:59 | 1330-20-7 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/05/10 17:59 | 95-47-6 | |
| 4-Bromofluorobenzene (S) | 97 | % | 80-120 | | 1 | | 04/05/10 17:59 | 460-00-4 | |
| Dibromofluoromethane (S) | 97 | % | 80-122 | | 1 | | 04/05/10 17:59 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 100 | % | 80-124 | | 1 | | 04/05/10 17:59 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 80-123 | | 1 | | 04/05/10 17:59 | 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.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

QC Batch: OEXT/2065 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 253365001, 253365002, 253365003

METHOD BLANK: 25034 Matrix: Water
Associated Lab Samples: 253365001, 253365002, 253365003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/L | <0.14 | 0.50 | 04/10/10 19:43 | |
| PCB-1221 (Aroclor 1221) | ug/L | <0.16 | 0.50 | 04/10/10 19:43 | |
| PCB-1232 (Aroclor 1232) | ug/L | <0.22 | 0.50 | 04/10/10 19:43 | |
| PCB-1242 (Aroclor 1242) | ug/L | <0.18 | 0.50 | 04/10/10 19:43 | |
| PCB-1248 (Aroclor 1248) | ug/L | <0.10 | 0.50 | 04/10/10 19:43 | |
| PCB-1254 (Aroclor 1254) | ug/L | <0.50 | 0.50 | 04/10/10 19:43 | |
| PCB-1260 (Aroclor 1260) | ug/L | <0.28 | 0.50 | 04/10/10 19:43 | |
| Decachlorobiphenyl (S) | % | 63 | 44-120 | 04/10/10 19:43 | |
| Tetrachloro-m-xylene (S) | % | 103 | 64-120 | 04/10/10 19:43 | |

LABORATORY CONTROL SAMPLE & LCSD: 25035 25036

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/L | 5 | 5.0 | 4.8 | 100 | 95 | 50-120 | 5 | | |
| PCB-1260 (Aroclor 1260) | ug/L | 5 | 5.3 | 5.2 | 107 | 105 | 59-120 | 2 | | |
| Decachlorobiphenyl (S) | % | | | | 55 | 53 | 44-120 | | | |
| Tetrachloro-m-xylene (S) | % | | | | 100 | 94 | 64-120 | | | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

QC Batch: OEXT/2074 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS
Associated Lab Samples: 253365001, 253365002, 253365003

METHOD BLANK: 25233 Matrix: Water
Associated Lab Samples: 253365001, 253365002, 253365003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Diesel Range | mg/L | <0.020 | 0.080 | 04/06/10 00:40 | |
| Motor Oil Range | mg/L | <0.030 | 0.40 | 04/06/10 00:40 | |
| n-Octacosane (S) | % | 97 | 50-150 | 04/06/10 00:40 | |
| o-Terphenyl (S) | % | 92 | 50-150 | 04/06/10 00:40 | |

LABORATORY CONTROL SAMPLE & LCSD: 25234 25235

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range | mg/L | 5 | 4.1 | 4.1 | 81 | 82 | 51-147 | .4 | 30 | |
| Motor Oil Range | mg/L | 5 | 4.5 | 4.6 | 90 | 91 | 20-160 | .7 | 30 | |
| n-Octacosane (S) | % | | | | 96 | 93 | 50-150 | | | |
| o-Terphenyl (S) | % | | | | 83 | 81 | 50-150 | | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

QC Batch: GCV/1492 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 253365001, 253365002, 253365003, 253365004

METHOD BLANK: 24920 Matrix: Water
Associated Lab Samples: 253365001, 253365002, 253365003, 253365004

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 16.7J | 50.0 | 03/30/10 13:57 | |
| 4-Bromofluorobenzene (S) | % | 94 | 50-150 | 03/30/10 13:57 | |
| a,a,a-Trifluorotoluene (S) | % | 109 | 50-150 | 03/30/10 13:57 | |

LABORATORY CONTROL SAMPLE: 24921

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 250 | 266 | 106 | 50-163 | |
| 4-Bromofluorobenzene (S) | % | | | 95 | 50-150 | |
| a,a,a-Trifluorotoluene (S) | % | | | 109 | 50-150 | |

SAMPLE DUPLICATE: 25076

| Parameter | Units | 253350005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 827 | 818 | 1 | 30 | |
| 4-Bromofluorobenzene (S) | % | 98 | 96 | 1 | | |
| a,a,a-Trifluorotoluene (S) | % | 110 | 111 | 1 | | |

SAMPLE DUPLICATE: 25077

| Parameter | Units | 253365003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | <13.4 | 14.9J | | 30 | |
| 4-Bromofluorobenzene (S) | % | 92 | 94 | 3 | | |
| a,a,a-Trifluorotoluene (S) | % | 104 | 105 | .8 | | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

QC Batch: MERP/1149 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 253365001, 253365002, 253365003

METHOD BLANK: 25282 Matrix: Water
Associated Lab Samples: 253365001, 253365002, 253365003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | <0.013 | 0.20 | 04/05/10 15:38 | |

LABORATORY CONTROL SAMPLE: 25283

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 5 | 5.1 | 103 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 25284 25285

| Parameter | Units | 253365002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | <0.013 | 5 | 5 | 5.1 | 5.1 | 101 | 101 | 75-125 | .2 | 20 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

QC Batch: MERP/1150 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 253365001, 253365002, 253365003

METHOD BLANK: 25286 Matrix: Water
Associated Lab Samples: 253365001, 253365002, 253365003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | <0.072 | 0.20 | 04/05/10 15:53 | |

LABORATORY CONTROL SAMPLE: 25287

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | 5 | 5.0 | 101 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 25288 25289

| Parameter | Units | 253365002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | <0.072 | 5 | 5 | 5.0 | 5.0 | 100 | 99 | 85-115 | 1 | 20 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

QC Batch: OEXT/2062 | Analysis Method: EPA 8270
QC Batch Method: EPA 3520 | Analysis Description: 8270 Water MSSV Phthalates
Associated Lab Samples: 253365001, 253365002, 253365003

METHOD BLANK: 25029 | Matrix: Water
Associated Lab Samples: 253365001, 253365002, 253365003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | ug/L | <1.0 | 5.0 | 03/31/10 18:57 | |
| Butylbenzylphthalate | ug/L | <0.46 | 5.0 | 03/31/10 18:57 | |
| Di-n-butylphthalate | ug/L | <0.47 | 5.0 | 03/31/10 18:57 | |
| Di-n-octylphthalate | ug/L | <0.50 | 5.0 | 03/31/10 18:57 | |
| Diethylphthalate | ug/L | <2.5 | 5.0 | 03/31/10 18:57 | |
| Dimethylphthalate | ug/L | <0.28 | 5.0 | 03/31/10 18:57 | |
| 2,4,6-Tribromophenol (S) | % | 81 | 37-120 | 03/31/10 18:57 | |
| 2-Fluorobiphenyl (S) | % | 90 | 40-110 | 03/31/10 18:57 | |
| 2-Fluorophenol (S) | % | 60 | 20-120 | 03/31/10 18:57 | |
| Nitrobenzene-d5 (S) | % | 99 | 38-121 | 03/31/10 18:57 | |
| Phenol-d6 (S) | % | 43 | 11-120 | 03/31/10 18:57 | |
| Terphenyl-d14 (S) | % | 96 | 26-130 | 03/31/10 18:57 | |

LABORATORY CONTROL SAMPLE & LCSD: 25030 25031

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | ug/L | 20 | 17.1 | 17.6 | 86 | 88 | 50-130 | 3 | 30 | |
| Butylbenzylphthalate | ug/L | 20 | 14.8 | 15.8 | 74 | 79 | 44-130 | 6 | 30 | |
| Di-n-butylphthalate | ug/L | 20 | 15.2 | 16.0 | 76 | 80 | 53-130 | 5 | 30 | |
| Di-n-octylphthalate | ug/L | 20 | 14.2 | 14.6 | 71 | 73 | 54-130 | 3 | 30 | |
| Diethylphthalate | ug/L | 20 | 16.2 | 16.5 | 81 | 82 | 20-126 | 2 | 30 | |
| Dimethylphthalate | ug/L | 20 | 16.2 | 16.8 | 81 | 84 | 54-130 | 4 | 30 | |
| 2,4,6-Tribromophenol (S) | % | | | | 83 | 74 | 37-120 | | | |
| 2-Fluorobiphenyl (S) | % | | | | 81 | 73 | 40-110 | | | |
| 2-Fluorophenol (S) | % | | | | 52 | 48 | 20-120 | | | |
| Nitrobenzene-d5 (S) | % | | | | 89 | 88 | 38-121 | | | |
| Phenol-d6 (S) | % | | | | 36 | 37 | 11-120 | | | |
| Terphenyl-d14 (S) | % | | | | 88 | 91 | 26-130 | | | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

QC Batch: OEXT/2064 | Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 | Analysis Description: 8270 PAH SIM
Associated Lab Samples: 253365001, 253365002, 253365003

METHOD BLANK: 25033 | Matrix: Water
Associated Lab Samples: 253365001, 253365002, 253365003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Acenaphthene | ug/L | <0.032 | 0.20 | 04/01/10 16:22 | |
| Acenaphthylene | ug/L | <0.029 | 0.20 | 04/01/10 16:22 | |
| Anthracene | ug/L | <0.019 | 0.20 | 04/01/10 16:22 | |
| Benzo(a)anthracene | ug/L | <0.021 | 0.20 | 04/01/10 16:22 | |
| Benzo(a)pyrene | ug/L | <0.019 | 0.20 | 04/01/10 16:22 | |
| Benzo(b)fluoranthene | ug/L | <0.028 | 0.20 | 04/01/10 16:22 | |
| Benzo(g,h,i)perylene | ug/L | <0.028 | 0.20 | 04/01/10 16:22 | |
| Benzo(k)fluoranthene | ug/L | <0.028 | 0.20 | 04/01/10 16:22 | |
| Chrysene | ug/L | <0.027 | 0.20 | 04/01/10 16:22 | |
| Dibenz(a,h)anthracene | ug/L | <0.031 | 0.20 | 04/01/10 16:22 | |
| Fluoranthene | ug/L | <0.024 | 0.20 | 04/01/10 16:22 | |
| Fluorene | ug/L | <0.028 | 0.20 | 04/01/10 16:22 | |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.032 | 0.20 | 04/01/10 16:22 | |
| Naphthalene | ug/L | <0.046 | 0.20 | 04/01/10 16:22 | |
| Phenanthrene | ug/L | <0.033 | 0.20 | 04/01/10 16:22 | |
| Pyrene | ug/L | <0.027 | 0.20 | 04/01/10 16:22 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

QC Batch: MSV/2243
Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 253365002, 253365003

METHOD BLANK: 25222
Matrix: Water
Associated Lab Samples: 253365002, 253365003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.15 | 1.0 | 04/02/10 14:07 | |
| 1,1,1-Trichloroethane | ug/L | <0.20 | 1.0 | 04/02/10 14:07 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.22 | 1.0 | 04/02/10 14:07 | |
| 1,1,2-Trichloroethane | ug/L | <0.19 | 1.0 | 04/02/10 14:07 | |
| 1,1-Dichloroethane | ug/L | <0.23 | 1.0 | 04/02/10 14:07 | |
| 1,1-Dichloroethene | ug/L | <0.12 | 1.0 | 04/02/10 14:07 | |
| 1,1-Dichloropropene | ug/L | <0.094 | 1.0 | 04/02/10 14:07 | |
| 1,2,3-Trichlorobenzene | ug/L | 0.56J | 1.0 | 04/02/10 14:07 | B- |
| 1,2,3-Trichloropropane | ug/L | <0.37 | 1.0 | 04/02/10 14:07 | |
| 1,2,4-Trichlorobenzene | ug/L | 0.29J | 1.0 | 04/02/10 14:07 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.086 | 1.0 | 04/02/10 14:07 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <0.79 | 1.0 | 04/02/10 14:07 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.20 | 1.0 | 04/02/10 14:07 | |
| 1,2-Dichlorobenzene | ug/L | <0.25 | 1.0 | 04/02/10 14:07 | |
| 1,2-Dichloroethane | ug/L | <0.074 | 1.0 | 04/02/10 14:07 | |
| 1,2-Dichloroethene (Total) | ug/L | <0.50 | 2.0 | 04/02/10 14:07 | |
| 1,2-Dichloropropane | ug/L | <0.16 | 1.0 | 04/02/10 14:07 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.16 | 1.0 | 04/02/10 14:07 | |
| 1,3-Dichlorobenzene | ug/L | <0.16 | 1.0 | 04/02/10 14:07 | |
| 1,3-Dichloropropane | ug/L | <0.22 | 1.0 | 04/02/10 14:07 | |
| 1,4-Dichlorobenzene | ug/L | <0.20 | 1.0 | 04/02/10 14:07 | |
| 2,2-Dichloropropane | ug/L | <0.27 | 1.0 | 04/02/10 14:07 | |
| 2-Butanone (MEK) | ug/L | <1.6 | 5.0 | 04/02/10 14:07 | |
| 2-Chlorotoluene | ug/L | <0.098 | 1.0 | 04/02/10 14:07 | |
| 2-Hexanone | ug/L | <0.57 | 5.0 | 04/02/10 14:07 | |
| 4-Chlorotoluene | ug/L | <0.13 | 1.0 | 04/02/10 14:07 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | <0.32 | 5.0 | 04/02/10 14:07 | |
| Acetone | ug/L | <0.75 | 5.0 | 04/02/10 14:07 | |
| Benzene | ug/L | <0.12 | 1.0 | 04/02/10 14:07 | |
| Bromobenzene | ug/L | <0.16 | 1.0 | 04/02/10 14:07 | |
| Bromochloromethane | ug/L | <0.34 | 1.0 | 04/02/10 14:07 | |
| Bromodichloromethane | ug/L | <0.11 | 1.0 | 04/02/10 14:07 | |
| Bromoform | ug/L | <0.23 | 1.0 | 04/02/10 14:07 | |
| Bromomethane | ug/L | <0.072 | 1.0 | 04/02/10 14:07 | |
| Carbon disulfide | ug/L | <0.16 | 1.0 | 04/02/10 14:07 | |
| Carbon tetrachloride | ug/L | <0.25 | 1.0 | 04/02/10 14:07 | |
| Chlorobenzene | ug/L | <0.12 | 1.0 | 04/02/10 14:07 | |
| Chloroethane | ug/L | <0.27 | 1.0 | 04/02/10 14:07 | |
| Chloroform | ug/L | <0.15 | 1.0 | 04/02/10 14:07 | |
| Chloromethane | ug/L | <0.20 | 1.0 | 04/02/10 14:07 | |
| cis-1,2-Dichloroethene | ug/L | <0.32 | 1.0 | 04/02/10 14:07 | |
| cis-1,3-Dichloropropene | ug/L | <0.086 | 1.0 | 04/02/10 14:07 | |
| Dibromochloromethane | ug/L | <0.12 | 1.0 | 04/02/10 14:07 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

METHOD BLANK: 25222 Matrix: Water

Associated Lab Samples: 253365002, 253365003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Dibromomethane | ug/L | <0.18 | 1.0 | 04/02/10 14:07 | |
| Dichlorodifluoromethane | ug/L | <0.19 | 1.0 | 04/02/10 14:07 | |
| Ethylbenzene | ug/L | <0.20 | 1.0 | 04/02/10 14:07 | |
| Hexachloro-1,3-butadiene | ug/L | 0.41J | 1.0 | 04/02/10 14:07 | |
| Isopropylbenzene (Cumene) | ug/L | <0.11 | 1.0 | 04/02/10 14:07 | |
| m&p-Xylene | ug/L | <0.27 | 2.0 | 04/02/10 14:07 | |
| Methyl-tert-butyl ether | ug/L | <0.16 | 1.0 | 04/02/10 14:07 | |
| Methylene chloride | ug/L | <0.26 | 4.0 | 04/02/10 14:07 | |
| n-Butylbenzene | ug/L | 0.12J | 1.0 | 04/02/10 14:07 | |
| n-Propylbenzene | ug/L | <0.16 | 1.0 | 04/02/10 14:07 | |
| Naphthalene | ug/L | 0.34J | 1.0 | 04/02/10 14:07 | |
| o-Xylene | ug/L | <0.15 | 1.0 | 04/02/10 14:07 | |
| p-Isopropyltoluene | ug/L | 0.091J | 1.0 | 04/02/10 14:07 | |
| sec-Butylbenzene | ug/L | <0.10 | 1.0 | 04/02/10 14:07 | |
| Styrene | ug/L | <0.074 | 1.0 | 04/02/10 14:07 | |
| tert-Butylbenzene | ug/L | <0.11 | 1.0 | 04/02/10 14:07 | |
| Tetrachloroethene | ug/L | <0.10 | 1.0 | 04/02/10 14:07 | |
| Toluene | ug/L | <0.21 | 1.0 | 04/02/10 14:07 | |
| trans-1,2-Dichloroethene | ug/L | <0.22 | 1.0 | 04/02/10 14:07 | |
| trans-1,3-Dichloropropene | ug/L | <0.16 | 1.0 | 04/02/10 14:07 | |
| Trichloroethene | ug/L | <0.22 | 1.0 | 04/02/10 14:07 | |
| Trichlorofluoromethane | ug/L | <0.24 | 1.0 | 04/02/10 14:07 | |
| Vinyl chloride | ug/L | <0.050 | 1.0 | 04/02/10 14:07 | |
| Xylene (Total) | ug/L | <0.42 | 3.0 | 04/02/10 14:07 | |
| 1,2-Dichloroethane-d4 (S) | % | 100 | 80-124 | 04/02/10 14:07 | |
| 4-Bromofluorobenzene (S) | % | 94 | 80-120 | 04/02/10 14:07 | |
| Dibromofluoromethane (S) | % | 102 | 80-122 | 04/02/10 14:07 | |
| Toluene-d8 (S) | % | 99 | 80-123 | 04/02/10 14:07 | |

LABORATORY CONTROL SAMPLE & LCSD: 25223 25224

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 40 | 41.1 | 41.4 | 103 | 103 | 73-126 | .6 | 30 | |
| 1,1,1-Trichloroethane | ug/L | 40 | 45.2 | 44.3 | 113 | 111 | 69-135 | 2 | 30 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 40 | 38.7 | 39.3 | 97 | 98 | 69-123 | 1 | 30 | |
| 1,1,2-Trichloroethane | ug/L | 40 | 39.3 | 39.1 | 98 | 98 | 76-114 | .4 | 30 | |
| 1,1-Dichloroethane | ug/L | 40 | 42.8 | 42.2 | 107 | 106 | 74-124 | 1 | 30 | |
| 1,1-Dichloroethene | ug/L | 40 | 53.4 | 51.5 | 133 | 129 | 69-139 | 4 | 30 | |
| 1,1-Dichloropropene | ug/L | 40 | 53.9 | 53.7 | 135 | 134 | 77-134 | .2 | 30 | L3 |
| 1,2,3-Trichlorobenzene | ug/L | 40 | 37.5 | 39.9 | 94 | 100 | 63-136 | 6 | 30 | |
| 1,2,3-Trichloropropane | ug/L | 40 | 37.8 | 37.7 | 95 | 94 | 66-118 | .2 | 30 | |
| 1,2,4-Trichlorobenzene | ug/L | 40 | 40.1 | 41.4 | 100 | 103 | 68-129 | 3 | 30 | |
| 1,2,4-Trimethylbenzene | ug/L | 40 | 47.4 | 47.3 | 119 | 118 | 72-126 | .4 | 30 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 40 | 33.5 | 34.0 | 84 | 85 | 64-124 | 2 | 30 | |
| 1,2-Dibromoethane (EDB) | ug/L | 40 | 42.4 | 41.7 | 106 | 104 | 78-117 | 2 | 30 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

LABORATORY CONTROL SAMPLE & LCSD: 25223 25224

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | ug/L | 40 | 41.1 | 41.2 | 103 | 103 | 74-118 | .2 | 30 | |
| 1,2-Dichloroethane | ug/L | 40 | 43.3 | 43.9 | 108 | 110 | 73-127 | 1 | 30 | |
| 1,2-Dichloroethene (Total) | ug/L | 80 | 104 | 102 | 130 | 127 | 60-140 | 2 | 30 | |
| 1,2-Dichloropropane | ug/L | 40 | 41.6 | 41.5 | 104 | 104 | 72-126 | .3 | 30 | |
| 1,3,5-Trimethylbenzene | ug/L | 40 | 46.4 | 46.7 | 116 | 117 | 68-129 | .4 | 30 | |
| 1,3-Dichlorobenzene | ug/L | 40 | 42.0 | 41.7 | 105 | 104 | 73-119 | .6 | 30 | |
| 1,3-Dichloropropane | ug/L | 40 | 40.6 | 40.4 | 101 | 101 | 74-119 | .5 | 30 | |
| 1,4-Dichlorobenzene | ug/L | 40 | 41.2 | 40.8 | 103 | 102 | 73-115 | .9 | 30 | |
| 2,2-Dichloropropane | ug/L | 40 | 50.8 | 49.6 | 127 | 124 | 46-157 | 3 | 30 | |
| 2-Butanone (MEK) | ug/L | 40 | 32.0 | 33.6 | 80 | 84 | 65-138 | 5 | 30 | |
| 2-Chlorotoluene | ug/L | 40 | 43.5 | 43.4 | 109 | 108 | 68-122 | .3 | 30 | |
| 2-Hexanone | ug/L | 40 | 32.2 | 32.9 | 80 | 82 | 60-135 | 2 | 30 | |
| 4-Chlorotoluene | ug/L | 40 | 43.5 | 43.5 | 109 | 109 | 70-122 | .03 | 30 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 40 | 32.7 | 34.5 | 82 | 86 | 70-135 | 5 | 30 | |
| Acetone | ug/L | 40 | 26.0 | 32.8 | 65 | 82 | 58-146 | 23 | 30 | |
| Benzene | ug/L | 40 | 46.3 | 45.8 | 116 | 114 | 75-124 | 1 | 30 | |
| Bromobenzene | ug/L | 40 | 41.6 | 41.2 | 104 | 103 | 74-116 | .9 | 30 | |
| Bromochloromethane | ug/L | 40 | 44.7 | 45.4 | 112 | 114 | 75-128 | 2 | 30 | |
| Bromodichloromethane | ug/L | 40 | 41.7 | 42.2 | 104 | 105 | 77-126 | 1 | 30 | |
| Bromoform | ug/L | 40 | 35.0 | 35.8 | 87 | 89 | 61-131 | 2 | 30 | |
| Bromomethane | ug/L | 20 | 20.6 | 19.8 | 103 | 99 | 58-139 | 4 | 30 | |
| Carbon disulfide | ug/L | 40 | 33.1 | 32.1 | 83 | 80 | 39-122 | 3 | 30 | |
| Carbon tetrachloride | ug/L | 40 | 46.9 | 46.6 | 117 | 116 | 67-136 | .6 | 30 | |
| Chlorobenzene | ug/L | 40 | 43.3 | 42.6 | 108 | 107 | 78-115 | 2 | 30 | |
| Chloroethane | ug/L | 20 | 21.7 | 20.8 | 109 | 104 | 58-137 | 4 | 30 | |
| Chloroform | ug/L | 40 | 42.8 | 42.1 | 107 | 105 | 75-124 | 2 | 30 | |
| Chloromethane | ug/L | 20 | 24.1 | 23.0 | 120 | 115 | 50-129 | 5 | 30 | |
| cis-1,2-Dichloroethene | ug/L | 40 | 48.9 | 48.0 | 122 | 120 | 78-126 | 2 | 30 | |
| cis-1,3-Dichloropropene | ug/L | 40 | 49.0 | 49.4 | 122 | 123 | 78-159 | .8 | 30 | |
| Dibromochloromethane | ug/L | 40 | 42.0 | 41.7 | 105 | 104 | 81-125 | .7 | 30 | |
| Dibromomethane | ug/L | 40 | 44.6 | 44.8 | 111 | 112 | 75-124 | .6 | 30 | |
| Dichlorodifluoromethane | ug/L | 20 | 23.3 | 22.6 | 117 | 113 | 30-140 | 3 | 30 | |
| Ethylbenzene | ug/L | 40 | 45.3 | 44.6 | 113 | 112 | 76-124 | 1 | 30 | |
| Hexachloro-1,3-butadiene | ug/L | 40 | 40.7 | 40.7 | 102 | 102 | 55-132 | .03 | 30 | |
| Isopropylbenzene (Cumene) | ug/L | 40 | 47.2 | 46.1 | 118 | 115 | 73-127 | 2 | 30 | |
| m&p-Xylene | ug/L | 80 | 91.6 | 89.4 | 115 | 112 | 75-124 | 2 | 30 | |
| Methyl-tert-butyl ether | ug/L | 20 | 17.6 | 18.0 | 88 | 90 | 72-130 | 2 | 30 | |
| Methylene chloride | ug/L | 40 | 44.4 | 44.3 | 111 | 111 | 69-124 | .3 | 30 | |
| n-Butylbenzene | ug/L | 40 | 47.1 | 47.1 | 118 | 118 | 65-131 | .06 | 30 | |
| n-Propylbenzene | ug/L | 40 | 46.8 | 46.5 | 117 | 116 | 69-129 | .8 | 30 | |
| Naphthalene | ug/L | 40 | 36.2 | 38.8 | 91 | 97 | 69-135 | 7 | 30 | |
| o-Xylene | ug/L | 40 | 45.9 | 44.9 | 115 | 112 | 76-121 | 2 | 30 | |
| p-Isopropyltoluene | ug/L | 40 | 46.8 | 46.5 | 117 | 116 | 69-133 | .6 | 30 | |
| sec-Butylbenzene | ug/L | 40 | 46.4 | 46.4 | 116 | 116 | 67-132 | .07 | 30 | |
| Styrene | ug/L | 40 | 45.7 | 45.0 | 114 | 113 | 76-121 | 2 | 30 | |
| tert-Butylbenzene | ug/L | 40 | 42.8 | 42.3 | 107 | 106 | 66-132 | 1 | 30 | |
| Tetrachloroethene | ug/L | 40 | 46.7 | 45.7 | 117 | 114 | 70-127 | 2 | 30 | |
| Toluene | ug/L | 40 | 44.6 | 43.0 | 112 | 107 | 75-124 | 4 | 30 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

## QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

LABORATORY CONTROL SAMPLE & LCSD: 25223 25224

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ug/L | 40 | 54.8 | 53.8 | 137 | 134 | 72-129 | 2 | 30 | L3 |
| trans-1,3-Dichloropropene | ug/L | 40 | 36.0 | 35.8 | 90 | 90 | 69-122 | .5 | 30 | |
| Trichloroethene | ug/L | 40 | 46.4 | 46.2 | 116 | 115 | 78-124 | .5 | 30 | |
| Trichlorofluoromethane | ug/L | 20 | 21.1 | 20.1 | 106 | 101 | 60-147 | 5 | 30 | |
| Vinyl chloride | ug/L | 20 | 22.1 | 21.5 | 110 | 107 | 56-136 | 3 | 30 | |
| Xylene (Total) | ug/L | 120 | 138 | 134 | 115 | 112 | 76-123 | 2 | 30 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 96 | 99 | 80-124 | | | |
| 4-Bromofluorobenzene (S) | % | | | | 100 | 101 | 80-120 | | | |
| Dibromofluoromethane (S) | % | | | | 101 | 101 | 80-122 | | | |
| Toluene-d8 (S) | % | | | | 100 | 99 | 80-123 | | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

QC Batch: MSV/2246
Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 253365001, 253365004

METHOD BLANK: 25312
Matrix: Water
Associated Lab Samples: 253365001, 253365004

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.15 | 1.0 | 04/05/10 17:13 | |
| 1,1,1-Trichloroethane | ug/L | <0.20 | 1.0 | 04/05/10 17:13 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.22 | 1.0 | 04/05/10 17:13 | |
| 1,1,2-Trichloroethane | ug/L | <0.19 | 1.0 | 04/05/10 17:13 | |
| 1,1-Dichloroethane | ug/L | <0.23 | 1.0 | 04/05/10 17:13 | |
| 1,1-Dichloroethene | ug/L | <0.12 | 1.0 | 04/05/10 17:13 | |
| 1,1-Dichloropropene | ug/L | <0.094 | 1.0 | 04/05/10 17:13 | |
| 1,2,3-Trichlorobenzene | ug/L | <0.11 | 1.0 | 04/05/10 17:13 | |
| 1,2,3-Trichloropropane | ug/L | <0.37 | 1.0 | 04/05/10 17:13 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.15 | 1.0 | 04/05/10 17:13 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.086 | 1.0 | 04/05/10 17:13 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <0.79 | 1.0 | 04/05/10 17:13 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.20 | 1.0 | 04/05/10 17:13 | |
| 1,2-Dichlorobenzene | ug/L | <0.25 | 1.0 | 04/05/10 17:13 | |
| 1,2-Dichloroethane | ug/L | <0.074 | 1.0 | 04/05/10 17:13 | |
| 1,2-Dichloroethene (Total) | ug/L | <0.50 | 2.0 | 04/05/10 17:13 | |
| 1,2-Dichloropropane | ug/L | <0.16 | 1.0 | 04/05/10 17:13 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.16 | 1.0 | 04/05/10 17:13 | |
| 1,3-Dichlorobenzene | ug/L | <0.16 | 1.0 | 04/05/10 17:13 | |
| 1,3-Dichloropropane | ug/L | <0.22 | 1.0 | 04/05/10 17:13 | |
| 1,4-Dichlorobenzene | ug/L | <0.20 | 1.0 | 04/05/10 17:13 | |
| 2,2-Dichloropropane | ug/L | <0.27 | 1.0 | 04/05/10 17:13 | |
| 2-Butanone (MEK) | ug/L | <1.6 | 5.0 | 04/05/10 17:13 | |
| 2-Chlorotoluene | ug/L | <0.098 | 1.0 | 04/05/10 17:13 | |
| 2-Hexanone | ug/L | <0.57 | 5.0 | 04/05/10 17:13 | |
| 4-Chlorotoluene | ug/L | <0.13 | 1.0 | 04/05/10 17:13 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | <0.32 | 5.0 | 04/05/10 17:13 | |
| Acetone | ug/L | <0.75 | 5.0 | 04/05/10 17:13 | |
| Benzene | ug/L | <0.12 | 1.0 | 04/05/10 17:13 | |
| Bromobenzene | ug/L | <0.16 | 1.0 | 04/05/10 17:13 | |
| Bromochloromethane | ug/L | <0.34 | 1.0 | 04/05/10 17:13 | |
| Bromodichloromethane | ug/L | <0.11 | 1.0 | 04/05/10 17:13 | |
| Bromoform | ug/L | <0.23 | 1.0 | 04/05/10 17:13 | |
| Bromomethane | ug/L | <0.072 | 1.0 | 04/05/10 17:13 | |
| Carbon disulfide | ug/L | <0.16 | 1.0 | 04/05/10 17:13 | |
| Carbon tetrachloride | ug/L | <0.25 | 1.0 | 04/05/10 17:13 | |
| Chlorobenzene | ug/L | <0.12 | 1.0 | 04/05/10 17:13 | |
| Chloroethane | ug/L | <0.27 | 1.0 | 04/05/10 17:13 | |
| Chloroform | ug/L | <0.15 | 1.0 | 04/05/10 17:13 | |
| Chloromethane | ug/L | <0.20 | 1.0 | 04/05/10 17:13 | |
| cis-1,2-Dichloroethene | ug/L | <0.32 | 1.0 | 04/05/10 17:13 | |
| cis-1,3-Dichloropropene | ug/L | <0.086 | 1.0 | 04/05/10 17:13 | |
| Dibromochloromethane | ug/L | <0.12 | 1.0 | 04/05/10 17:13 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

METHOD BLANK: 25312 Matrix: Water

Associated Lab Samples: 253365001, 253365004

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Dibromomethane | ug/L | <0.18 | 1.0 | 04/05/10 17:13 | |
| Dichlorodifluoromethane | ug/L | <0.19 | 1.0 | 04/05/10 17:13 | |
| Ethylbenzene | ug/L | <0.20 | 1.0 | 04/05/10 17:13 | |
| Hexachloro-1,3-butadiene | ug/L | <0.27 | 1.0 | 04/05/10 17:13 | |
| Isopropylbenzene (Cumene) | ug/L | <0.11 | 1.0 | 04/05/10 17:13 | |
| m&p-Xylene | ug/L | <0.27 | 2.0 | 04/05/10 17:13 | |
| Methyl-tert-butyl ether | ug/L | <0.16 | 1.0 | 04/05/10 17:13 | |
| Methylene chloride | ug/L | <0.26 | 4.0 | 04/05/10 17:13 | |
| n-Butylbenzene | ug/L | <0.10 | 1.0 | 04/05/10 17:13 | |
| n-Propylbenzene | ug/L | <0.16 | 1.0 | 04/05/10 17:13 | |
| Naphthalene | ug/L | <0.10 | 1.0 | 04/05/10 17:13 | |
| o-Xylene | ug/L | <0.15 | 1.0 | 04/05/10 17:13 | |
| p-Isopropyltoluene | ug/L | <0.074 | 1.0 | 04/05/10 17:13 | |
| sec-Butylbenzene | ug/L | <0.10 | 1.0 | 04/05/10 17:13 | |
| Styrene | ug/L | <0.074 | 1.0 | 04/05/10 17:13 | |
| tert-Butylbenzene | ug/L | <0.11 | 1.0 | 04/05/10 17:13 | |
| Tetrachloroethene | ug/L | <0.10 | 1.0 | 04/05/10 17:13 | |
| Toluene | ug/L | <0.21 | 1.0 | 04/05/10 17:13 | |
| trans-1,2-Dichloroethene | ug/L | <0.22 | 1.0 | 04/05/10 17:13 | |
| trans-1,3-Dichloropropene | ug/L | <0.16 | 1.0 | 04/05/10 17:13 | |
| Trichloroethene | ug/L | <0.22 | 1.0 | 04/05/10 17:13 | |
| Trichlorofluoromethane | ug/L | <0.24 | 1.0 | 04/05/10 17:13 | |
| Vinyl chloride | ug/L | <0.050 | 1.0 | 04/05/10 17:13 | |
| Xylene (Total) | ug/L | <0.42 | 3.0 | 04/05/10 17:13 | |
| 1,2-Dichloroethane-d4 (S) | % | 101 | 80-124 | 04/05/10 17:13 | |
| 4-Bromofluorobenzene (S) | % | 96 | 80-120 | 04/05/10 17:13 | |
| Dibromofluoromethane (S) | % | 106 | 80-122 | 04/05/10 17:13 | |
| Toluene-d8 (S) | % | 95 | 80-123 | 04/05/10 17:13 | |

LABORATORY CONTROL SAMPLE & LCSD: 25313 25314

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 40 | 36.0 | 36.9 | 90 | 92 | 73-126 | 3 | 30 | |
| 1,1,1-Trichloroethane | ug/L | 40 | 35.5 | 35.1 | 89 | 88 | 69-135 | 1 | 30 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 40 | 38.1 | 40.2 | 95 | 100 | 69-123 | 5 | 30 | |
| 1,1,2-Trichloroethane | ug/L | 40 | 34.1 | 35.9 | 85 | 90 | 76-114 | 5 | 30 | |
| 1,1-Dichloroethane | ug/L | 40 | 32.6 | 32.5 | 82 | 81 | 74-124 | .5 | 30 | |
| 1,1-Dichloroethene | ug/L | 40 | 34.6 | 33.9 | 87 | 85 | 69-139 | 2 | 30 | |
| 1,1-Dichloropropene | ug/L | 40 | 35.3 | 34.5 | 88 | 86 | 77-134 | 2 | 30 | |
| 1,2,3-Trichlorobenzene | ug/L | 40 | 38.1 | 38.3 | 95 | 96 | 63-136 | .6 | 30 | |
| 1,2,3-Trichloropropane | ug/L | 40 | 36.1 | 38.4 | 90 | 96 | 66-118 | 6 | 30 | |
| 1,2,4-Trichlorobenzene | ug/L | 40 | 39.8 | 38.3 | 99 | 96 | 68-129 | 4 | 30 | |
| 1,2,4-Trimethylbenzene | ug/L | 40 | 40.7 | 39.9 | 102 | 100 | 72-126 | 2 | 30 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 40 | 30.2 | 31.3 | 75 | 78 | 64-124 | 4 | 30 | |
| 1,2-Dibromoethane (EDB) | ug/L | 40 | 33.7 | 36.5 | 84 | 91 | 78-117 | 8 | 30 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

LABORATORY CONTROL SAMPLE & LCSD: 25313 25314

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | ug/L | 40 | 39.7 | 40.2 | 99 | 101 | 74-118 | 1 | 30 | |
| 1,2-Dichloroethane | ug/L | 40 | 37.4 | 38.6 | 93 | 96 | 73-127 | 3 | 30 | |
| 1,2-Dichloroethene (Total) | ug/L | 80 | 69.9 | 69.8 | 87 | 87 | 60-140 | .3 | 30 | |
| 1,2-Dichloropropane | ug/L | 40 | 34.9 | 35.5 | 87 | 89 | 72-126 | 2 | 30 | |
| 1,3,5-Trimethylbenzene | ug/L | 40 | 40.1 | 39.2 | 100 | 98 | 68-129 | 2 | 30 | |
| 1,3-Dichlorobenzene | ug/L | 40 | 40.3 | 40.8 | 101 | 102 | 73-119 | 1 | 30 | |
| 1,3-Dichloropropane | ug/L | 40 | 34.4 | 37.5 | 86 | 94 | 74-119 | 9 | 30 | |
| 1,4-Dichlorobenzene | ug/L | 40 | 37.6 | 38.4 | 94 | 96 | 73-115 | 2 | 30 | |
| 2,2-Dichloropropane | ug/L | 40 | 34.2 | 33.5 | 85 | 84 | 46-157 | 2 | 30 | |
| 2-Butanone (MEK) | ug/L | 40 | 37.0 | 39.6 | 92 | 99 | 65-138 | 7 | 30 | |
| 2-Chlorotoluene | ug/L | 40 | 42.3 | 41.8 | 106 | 104 | 68-122 | 1 | 30 | |
| 2-Hexanone | ug/L | 40 | 30.6 | 34.3 | 76 | 86 | 60-135 | 11 | 30 | |
| 4-Chlorotoluene | ug/L | 40 | 42.1 | 43.0 | 105 | 107 | 70-122 | 2 | 30 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 40 | 29.5 | 31.2 | 74 | 78 | 70-135 | 6 | 30 | |
| Acetone | ug/L | 40 | 41.9 | 41.0 | 105 | 103 | 58-146 | 2 | 30 | |
| Benzene | ug/L | 40 | 38.4 | 38.2 | 96 | 95 | 75-124 | .7 | 30 | |
| Bromobenzene | ug/L | 40 | 38.4 | 39.0 | 96 | 97 | 74-116 | 2 | 30 | |
| Bromochloromethane | ug/L | 40 | 32.7 | 33.8 | 82 | 84 | 75-128 | 3 | 30 | |
| Bromodichloromethane | ug/L | 40 | 32.7 | 33.5 | 82 | 84 | 77-126 | 2 | 30 | |
| Bromoform | ug/L | 40 | 29.8 | 32.6 | 75 | 81 | 61-131 | 9 | 30 | |
| Bromomethane | ug/L | 20 | 24.5 | 22.0 | 122 | 110 | 58-139 | 11 | 30 | |
| Carbon disulfide | ug/L | 40 | 28.8 | 28.3 | 72 | 71 | 39-122 | 2 | 30 | |
| Carbon tetrachloride | ug/L | 40 | 34.2 | 33.7 | 85 | 84 | 67-136 | 2 | 30 | |
| Chlorobenzene | ug/L | 40 | 36.8 | 38.1 | 92 | 95 | 78-115 | 3 | 30 | |
| Chloroethane | ug/L | 20 | 25.0 | 22.9 | 125 | 114 | 58-137 | 9 | 30 | |
| Chloroform | ug/L | 40 | 39.8 | 40.8 | 99 | 102 | 75-124 | 3 | 30 | |
| Chloromethane | ug/L | 20 | 27.2 | 24.5 | 136 | 123 | 50-129 | 10 | 30 | L3 |
| cis-1,2-Dichloroethene | ug/L | 40 | 35.0 | 34.9 | 88 | 87 | 78-126 | .3 | 30 | |
| cis-1,3-Dichloropropene | ug/L | 40 | 30.4 | 31.5 | 76 | 79 | 78-159 | 4 | 30 | L0 |
| Dibromochloromethane | ug/L | 40 | 31.8 | 33.3 | 79 | 83 | 81-125 | 5 | 30 | L0 |
| Dibromomethane | ug/L | 40 | 38.1 | 40.1 | 95 | 100 | 75-124 | 5 | 30 | |
| Dichlorodifluoromethane | ug/L | 20 | 27.6 | 26.2 | 138 | 131 | 30-140 | 5 | 30 | |
| Ethylbenzene | ug/L | 40 | 42.0 | 42.6 | 105 | 107 | 76-124 | 1 | 30 | |
| Hexachloro-1,3-butadiene | ug/L | 40 | 39.5 | 36.8 | 99 | 92 | 55-132 | 7 | 30 | |
| Isopropylbenzene (Cumene) | ug/L | 40 | 39.4 | 39.1 | 99 | 98 | 73-127 | .8 | 30 | |
| m&p-Xylene | ug/L | 80 | 72.1 | 72.9 | 90 | 91 | 75-124 | 1 | 30 | |
| Methyl-tert-butyl ether | ug/L | 20 | 16.1 | 17.0 | 80 | 85 | 72-130 | 5 | 30 | |
| Methylene chloride | ug/L | 40 | 33.7 | 34.0 | 84 | 85 | 69-124 | .9 | 30 | |
| n-Butylbenzene | ug/L | 40 | 37.5 | 35.9 | 94 | 90 | 65-131 | 4 | 30 | |
| n-Propylbenzene | ug/L | 40 | 44.4 | 44.1 | 111 | 110 | 69-129 | .7 | 30 | |
| Naphthalene | ug/L | 40 | 32.6 | 33.1 | 81 | 83 | 69-135 | 2 | 30 | |
| o-Xylene | ug/L | 40 | 35.9 | 36.2 | 90 | 91 | 76-121 | .8 | 30 | |
| p-Isopropyltoluene | ug/L | 40 | 40.4 | 38.6 | 101 | 96 | 69-133 | 5 | 30 | |
| sec-Butylbenzene | ug/L | 40 | 41.4 | 39.7 | 104 | 99 | 67-132 | 4 | 30 | |
| Styrene | ug/L | 40 | 34.1 | 35.7 | 85 | 89 | 76-121 | 4 | 30 | |
| tert-Butylbenzene | ug/L | 40 | 39.4 | 37.7 | 98 | 94 | 66-132 | 4 | 30 | |
| Tetrachloroethene | ug/L | 40 | 39.4 | 38.5 | 98 | 96 | 70-127 | 2 | 30 | |
| Toluene | ug/L | 40 | 37.9 | 38.2 | 95 | 96 | 75-124 | .9 | 30 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

## QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

LABORATORY CONTROL SAMPLE & LCSD: 25313 25314

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ug/L | 40 | 34.9 | 34.9 | 87 | 87 | 72-129 | .2 | 30 | |
| trans-1,3-Dichloropropene | ug/L | 40 | 27.6 | 29.6 | 69 | 74 | 69-122 | 7 | 30 | |
| Trichloroethene | ug/L | 40 | 37.3 | 36.9 | 93 | 92 | 78-124 | 1 | 30 | |
| Trichlorofluoromethane | ug/L | 20 | 24.3 | 22.5 | 122 | 113 | 60-147 | 8 | 30 | |
| Vinyl chloride | ug/L | 20 | 26.8 | 24.5 | 134 | 123 | 56-136 | 9 | 30 | |
| Xylene (Total) | ug/L | 120 | 108 | 109 | 90 | 91 | 76-123 | 1 | 30 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 103 | 105 | 80-124 | | | |
| 4-Bromofluorobenzene (S) | % | | | | 94 | 92 | 80-120 | | | |
| Dibromofluoromethane (S) | % | | | | 105 | 107 | 80-122 | | | |
| Toluene-d8 (S) | % | | | | 97 | 96 | 80-123 | | | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

QC Batch: WET/1893 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 253365001, 253365002, 253365003

METHOD BLANK: 24948 Matrix: Water
Associated Lab Samples: 253365001, 253365002, 253365003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | <2.0 | 2.0 | 03/30/10 15:30 | |

SAMPLE DUPLICATE: 24949

| Parameter | Units | 253365001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | <2.0 | <2.0 | | 20 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253365

QC Batch: WETA/1451 Analysis Method: EPA 9012A
QC Batch Method: EPA 9012A Analysis Description: EPA 9012 Cyanide
Associated Lab Samples: 253365001, 253365002, 253365003

METHOD BLANK: 24823 Matrix: Water
Associated Lab Samples: 253365001, 253365002, 253365003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Cyanide | mg/L | <0.0012 | 0.010 | 04/01/10 15:05 | |

LABORATORY CONTROL SAMPLE: 24824

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Cyanide | mg/L | .1 | 0.10 | 102 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 24825 24826

| Parameter | Units | 253365001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | mg/L | <0.0012 | .1 | .1 | 0.10 | 0.10 | 102 | 104 | 64-135 | 3 | 11 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALIFIERS

Project: 00922 - Storm Water
Pace Project No.: 253365

## 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

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

## LABORATORIES

| | |
|---|---|
| PASI-S | Pace Analytical Services - Seattle |

## BATCH QUALIFIERS

Batch: GCSV/1548

| | |
|---|---|
| [M5] | A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume. |

Batch: MSSV/1260

| | |
|---|---|
| [M5] | A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume. |

Batch: MSSV/1261

| | |
|---|---|
| [1] | Due to limited sample volume, the sample extract was split and analyzed by both scan and SIM. The surrogate recoveries are evaluated by the scan portion of the analysis. The analyte recoveries for all compounds reported by SIM analysis were acceptable in the scan LCS and LCSD. |

## ANALYTE QUALIFIERS

| | |
|---|---|
| B- | Analyte detected in method blank but was not detected in the associated samples. |
| L0 | Analyte recovery in the laboratory control sample (LCS) was outside QC limits. |
| L2 | Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low. |
| L3 | Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias. |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 00922 - Storm Water
Pace Project No.: 253365

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **253365001** | **MH-12 (4" Line)** | EPA 3510 | OEXT/2065 | EPA 8082 | GCSV/1548 |
| **253365002** | **MH-12 (12" Line)** | EPA 3510 | OEXT/2065 | EPA 8082 | GCSV/1548 |
| **253365003** | **MH-3** | EPA 3510 | OEXT/2065 | EPA 8082 | GCSV/1548 |
| **253365001** | **MH-12 (4" Line)** | EPA 3510 | OEXT/2074 | NWTPH-Dx | GCSV/1557 |
| **253365002** | **MH-12 (12" Line)** | EPA 3510 | OEXT/2074 | NWTPH-Dx | GCSV/1557 |
| **253365003** | **MH-3** | EPA 3510 | OEXT/2074 | NWTPH-Dx | GCSV/1557 |
| **253365001** | **MH-12 (4" Line)** | NWTPH-Gx | GCV/1492 | | |
| **253365002** | **MH-12 (12" Line)** | NWTPH-Gx | GCV/1492 | | |
| **253365003** | **MH-3** | NWTPH-Gx | GCV/1492 | | |
| **253365004** | **Trip Blank** | NWTPH-Gx | GCV/1492 | | |
| **253365001** | **MH-12 (4" Line)** | EPA 7470 | MERP/1149 | EPA 7470 | MERC/1164 |
| **253365002** | **MH-12 (12" Line)** | EPA 7470 | MERP/1149 | EPA 7470 | MERC/1164 |
| **253365003** | **MH-3** | EPA 7470 | MERP/1149 | EPA 7470 | MERC/1164 |
| **253365001** | **MH-12 (4" Line)** | EPA 7470 | MERP/1150 | EPA 7470 | MERC/1165 |
| **253365002** | **MH-12 (12" Line)** | EPA 7470 | MERP/1150 | EPA 7470 | MERC/1165 |
| **253365003** | **MH-3** | EPA 7470 | MERP/1150 | EPA 7470 | MERC/1165 |
| **253365001** | **MH-12 (4" Line)** | EPA 3520 | OEXT/2062 | EPA 8270 | MSSV/1260 |
| **253365002** | **MH-12 (12" Line)** | EPA 3520 | OEXT/2062 | EPA 8270 | MSSV/1260 |
| **253365003** | **MH-3** | EPA 3520 | OEXT/2062 | EPA 8270 | MSSV/1260 |
| **253365001** | **MH-12 (4" Line)** | EPA 3510 | OEXT/2064 | EPA 8270 by SIM | MSSV/1261 |
| **253365002** | **MH-12 (12" Line)** | EPA 3510 | OEXT/2064 | EPA 8270 by SIM | MSSV/1261 |
| **253365003** | **MH-3** | EPA 3510 | OEXT/2064 | EPA 8270 by SIM | MSSV/1261 |
| **253365001** | **MH-12 (4" Line)** | EPA 5030B/8260 | MSV/2246 | | |
| **253365002** | **MH-12 (12" Line)** | EPA 5030B/8260 | MSV/2243 | | |
| **253365003** | **MH-3** | EPA 5030B/8260 | MSV/2243 | | |
| **253365004** | **Trip Blank** | EPA 5030B/8260 | MSV/2246 | | |
| **253365001** | **MH-12 (4" Line)** | SM 2540D | WET/1893 | | |
| **253365002** | **MH-12 (12" Line)** | SM 2540D | WET/1893 | | |
| **253365003** | **MH-3** | SM 2540D | WET/1893 | | |
| **253365001** | **MH-12 (4" Line)** | EPA 9012A | WETA/1451 | EPA 9012A | WETA/1459 |
| **253365002** | **MH-12 (12" Line)** | EPA 9012A | WETA/1451 | EPA 9012A | WETA/1459 |
| **253365003** | **MH-3** | EPA 9012A | WETA/1451 | EPA 9012A | WETA/1459 |



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

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

April 27, 2010

Client Services
Pace Analytical Seattle
940 South Harney
Seattle, WA 98108

RE: Project: 253365 COP_Stantec Oregon
Pace Project No.: 10125291

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Cory C Lund

cory.lund@pacelabs.com
Project Manager

Enclosures

cc: Jennifer Gross, Pace Analytical Seattle



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

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

## CERTIFICATIONS

Project: 253365 COP_Stantec Oregon
Pace Project No.: 10125291

**Minnesota Certification IDs**
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970



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

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

# ANALYTICAL RESULTS

Project: 253365 COP_Stantec Oregon
Pace Project No.: 10125291

**Sample: MH-12 (4'LINE)** **Lab ID: 253365001** Collected: 03/25/10 08:45 Received: 03/30/10 10:05 Matrix: Water

| Parameters | Results | Units | PQL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| | Analytical Method: EPA 6020 | | | | | | | |
| Arsenic | **1.3** | ug/L | 0.50 | 1 | | 04/02/10 13:57 | 7440-38-2 | |
| Barium | **7.7** | ug/L | 0.30 | 1 | | 04/02/10 13:57 | 7440-39-3 | |
| Cadmium | **0.043J** | ug/L | 0.080 | 1 | | 04/02/10 13:57 | 7440-43-9 | |
| Chromium | **<0.24** | ug/L | 0.50 | 1 | | 04/02/10 13:57 | 7440-47-3 | |
| Copper | **2.5** | ug/L | 0.50 | 1 | | 04/02/10 13:57 | 7440-50-8 | |
| Lead | **0.079J** | ug/L | 0.10 | 1 | | 04/02/10 13:57 | 7439-92-1 | |
| Manganese | **6.9** | ug/L | 0.50 | 1 | | 04/02/10 13:57 | 7439-96-5 | |
| Selenium | **<0.10** | ug/L | 0.50 | 1 | | 04/02/10 13:57 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 1 | | 04/02/10 13:57 | 7440-22-4 | |
| Zinc | **142** | ug/L | 5.0 | 1 | | 04/02/10 13:57 | 7440-66-6 | |
| Arsenic | **0.19J** | ug/L | 0.50 | 1 | | 04/01/10 20:33 | 7440-38-2 | |
| Barium | **6.4** | ug/L | 0.30 | 1 | | 04/01/10 20:33 | 7440-39-3 | |
| Cadmium | **0.073J** | ug/L | 0.080 | 1 | | 04/01/10 20:33 | 7440-43-9 | |
| Chromium | **0.24J** | ug/L | 0.50 | 1 | | 04/01/10 20:33 | 7440-47-3 | |
| Copper | **2.9** | ug/L | 0.50 | 1 | | 04/01/10 20:33 | 7440-50-8 | |
| Lead | **0.26** | ug/L | 0.10 | 1 | | 04/01/10 20:33 | 7439-92-1 | |
| Manganese | **9.4** | ug/L | 0.50 | 1 | | 04/01/10 20:33 | 7439-96-5 | |
| Selenium | **<0.10** | ug/L | 0.50 | 1 | | 04/01/10 20:33 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 1 | | 04/01/10 20:33 | 7440-22-4 | |
| Zinc | **146** | ug/L | 5.0 | 1 | | 04/01/10 20:33 | 7440-66-6 | |

**Sample: MH-12 (12'LINE)** **Lab ID: 253365002** Collected: 03/25/10 11:30 Received: 03/30/10 10:05 Matrix: Water

| Parameters | Results | Units | PQL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| | Analytical Method: EPA 6020 | | | | | | | |
| Arsenic | **1.1** | ug/L | 0.50 | 1 | | 04/02/10 14:18 | 7440-38-2 | |
| Barium | **14.2** | ug/L | 0.30 | 1 | | 04/02/10 14:18 | 7440-39-3 | |
| Cadmium | **<0.020** | ug/L | 0.080 | 1 | | 04/02/10 14:18 | 7440-43-9 | |
| Chromium | **0.26J** | ug/L | 0.50 | 1 | | 04/02/10 14:18 | 7440-47-3 | |
| Copper | **2.0** | ug/L | 0.50 | 1 | | 04/02/10 14:18 | 7440-50-8 | |
| Lead | **0.22** | ug/L | 0.10 | 1 | | 04/02/10 14:18 | 7439-92-1 | |
| Manganese | **2.8** | ug/L | 0.50 | 1 | | 04/02/10 14:18 | 7439-96-5 | |
| Selenium | **<0.10** | ug/L | 0.50 | 1 | | 04/02/10 14:18 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 1 | | 04/02/10 14:18 | 7440-22-4 | |
| Zinc | **19.5** | ug/L | 5.0 | 1 | | 04/02/10 14:18 | 7440-66-6 | |
| Arsenic | **33.9** | ug/L | 0.50 | 1 | | 04/01/10 20:49 | 7440-38-2 | |
| Barium | **44.8** | ug/L | 0.30 | 1 | | 04/01/10 20:49 | 7440-39-3 | |
| Cadmium | **0.17** | ug/L | 0.080 | 1 | | 04/01/10 20:49 | 7440-43-9 | |
| Chromium | **7.0** | ug/L | 0.50 | 1 | | 04/01/10 20:49 | 7440-47-3 | |
| Copper | **136** | ug/L | 0.50 | 1 | | 04/01/10 20:49 | 7440-50-8 | |
| Lead | **22.0** | ug/L | 0.10 | 1 | | 04/01/10 20:49 | 7439-92-1 | |
| Manganese | **180** | ug/L | 0.50 | 1 | | 04/01/10 20:49 | 7439-96-5 | |
| Selenium | **0.28J** | ug/L | 0.50 | 1 | | 04/01/10 20:49 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 1 | | 04/01/10 20:49 | 7440-22-4 | |
| Zinc | **154** | ug/L | 5.0 | 1 | | 04/01/10 20:49 | 7440-66-6 | |



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

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

# ANALYTICAL RESULTS

Project: 253365 COP_Stantec Oregon
Pace Project No.: 10125291

**Sample: MH-13** **Lab ID: 253365003** Collected: 03/25/10 12:00 Received: 03/30/10 10:05 Matrix: Water

| Parameters | Results | Units | PQL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| | Analytical Method: EPA 6020 | | | | | | | |
| Arsenic | **1.6** | ug/L | 0.50 | 1 | | 04/02/10 14:22 | 7440-38-2 | |
| Barium | **5.1** | ug/L | 0.30 | 1 | | 04/02/10 14:22 | 7440-39-3 | |
| Cadmium | **<0.020** | ug/L | 0.080 | 1 | | 04/02/10 14:22 | 7440-43-9 | |
| Chromium | **0.86** | ug/L | 0.50 | 1 | | 04/02/10 14:22 | 7440-47-3 | |
| Copper | **3.5** | ug/L | 0.50 | 1 | | 04/02/10 14:22 | 7440-50-8 | |
| Lead | **1.3** | ug/L | 0.10 | 1 | | 04/02/10 14:22 | 7439-92-1 | |
| Manganese | **2.3** | ug/L | 0.50 | 1 | | 04/02/10 14:22 | 7439-96-5 | |
| Selenium | **<0.10** | ug/L | 0.50 | 1 | | 04/02/10 14:22 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 1 | | 04/02/10 14:22 | 7440-22-4 | |
| Zinc | **14.9** | ug/L | 5.0 | 1 | | 04/02/10 14:22 | 7440-66-6 | |
| Arsenic | **1.2** | ug/L | 0.50 | 1 | | 04/01/10 20:58 | 7440-38-2 | |
| Barium | **4.6** | ug/L | 0.30 | 1 | | 04/01/10 20:58 | 7440-39-3 | |
| Cadmium | **0.020J** | ug/L | 0.080 | 1 | | 04/01/10 20:58 | 7440-43-9 | |
| Chromium | **1.0** | ug/L | 0.50 | 1 | | 04/01/10 20:58 | 7440-47-3 | |
| Copper | **7.0** | ug/L | 0.50 | 1 | | 04/01/10 20:58 | 7440-50-8 | |
| Lead | **2.8** | ug/L | 0.10 | 1 | | 04/01/10 20:58 | 7439-92-1 | |
| Manganese | **4.6** | ug/L | 0.50 | 1 | | 04/01/10 20:58 | 7439-96-5 | |
| Selenium | **<0.10** | ug/L | 0.50 | 1 | | 04/01/10 20:58 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 1 | | 04/01/10 20:58 | 7440-22-4 | |
| Zinc | **33.0** | ug/L | 5.0 | 1 | | 04/01/10 20:58 | 7440-66-6 | |



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

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

# QUALIFIERS

Project: 253365 COP_Stantec Oregon
Pace Project No.: 10125291

**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.

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

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



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

# Sample Condition Upon Receipt

Pace Analytical

Client Name: STANTEC

Project # 253365

Optional: Proj. Due Date: Proj. Name:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other PCS

Tracking #:

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

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

Thermometer Used Horiba 132013 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.9, 2.0 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: OC 3/29/10

Temp should be above freezing to 6°C

Comments:

| | | | | |
|---|---|---|---|---|
| Chain of Custody Present: | ☒Yes | ☐No | ☐N/A | 1. |
| Chain of Custody Filled Out: | ☒Yes | ☐No | ☐N/A | 2. |
| Chain of Custody Relinquished: | ☒Yes | ☐No | ☐N/A | 3. |
| Sampler Name & Signature on COC: | ☒Yes | ☐No | ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☒Yes | ☐No | ☐N/A | 5. |
| Short Hold Time Analysis (<72hr): | ☐Yes | ☒No | ☐N/A | 6. |
| Rush Turn Around Time Requested: | ☐Yes | ☒No | ☐N/A | 7. |
| Sufficient Volume: | ☒Yes | ☐No | ☐N/A | 8. |
| Correct Containers Used: | ☒Yes | ☐No | ☐N/A | 9. |
| -Pace Containers Used: | ☐Yes | ☒No | ☐N/A | lot 3 TB vials is from Lancaster |
| Containers Intact: | ☒Yes | ☐No | ☐N/A | 10. |
| Filtered volume received for Dissolved tests | ☐Yes | ☒No | ☐N/A | 11. Sample will be split and filtered/preserved by Pace. OC |
| Sample Labels match COC: | ☐Yes | ☒No | ☐N/A | 12. ~~MW~~ OC MH-12: COC has a time of 08:45/Bottles reads 09:45 |
| -Includes date/time/ID/Analysis Matrix: Water | | | | |
| All containers needing preservation have been checked. | ☒Yes | ☐No | ☐N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | ☐Yes | ☐No | ☐N/A | Initial when completed / Lot # of added preservative |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | ☒Yes | ☐No | | |
| Samples checked for dechlorination: | ☐Yes | ☐No | ☒N/A | 14. |
| Headspace in VOA Vials ( >6mm): | ☐Yes | ☒No | ☐N/A | 15. |
| Trip Blank Present: | ☒Yes | ☐No | ☐N/A | 16. |
| Trip Blank Custody Seals Present | ☐Yes | ☐No | ☒N/A | |
| Pace Trip Blank Lot # (if purchased): HA 001504 | | | | |

Field Data Required? Y / N

Client Notification/ Resolution:

Person Contacted: Chris @ Stantec Date/Time: 3/30/10 email

Comments/ Resolution: Can KS analyze 9060 TOC BY SM 5310? Sample 001 for TOC received broken in KS 3/30/10, OC 3/30/10. All pesticide samples were received in NOLA in hold/intact. Samples were not logged in and went out of hold, per client ALL samples canceled. Stantec will re-sample, OC

Project Manager Review: Jenni Gross Date: 3/29/10

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

F-ALL003rev.3, 11September2006

Pace Analytical®
www.pacelabs.com

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1314161

**Section A** Required Client Information:

Company: Stantec
Address: 7730 SW Mohawk St
Tualatin OR 97225
Email To: MARK.TREWARTHA@STANTEC.COM
Phone: 503.691.2030 Fax: 503.692.7074
Requested Due Date/TAT:

**Section B** Required Project Information:

Report To: MARK Trewartha
Copy To: Chris Carlton Franco
Janet Nash
Purchase Order No.:
Project Name: 922 Stormwater
Project Number:

**Section C** Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER Storm Water

Site Location STATE: OR

**Section D** Required Client Information

**SAMPLE ID** (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED Composite Start DATE | COLLECTED Composite Start TIME | COLLECTED Composite End/Grab DATE | COLLECTED Composite End/Grab TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test (Y/N) | NWTPH-Gx | NWTPH-Dx | TOC 9060M | VOCs 8260 | 8270-SIM PAHs | PCBs 8082 | 8270M-SIM PAHs | Total metals 6000/7000 | 8081A Pesticides | TSS | SW-846 9012A cyanide | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MH-12 (4" Line) | WT | G | | | 3/25/10 | 0845 | | 15 | 5 | 1 | 1 | 7 | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | | 2533365 001 |
| 2 | MH-12 (12" Line) | WT | G | | | 3/25/10 | 1130 | | 15 | 5 | 1 | 1 | 7 | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | | 002 |
| 3 | MH-3 | WT | G | | | 3/25/10 | 1200 | | 15 | 5 | 1 | 1 | 7 | 1 | | | | | X | X | X | X | X | X | X | X | X | X | X | | 003 |
| 4 | TB | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | 004 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| | Janet Nash / Stantec | 3/26/10 | 1100 | L. Witt PACE | 3/27/10 | 0930 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Janet Nash

SIGNATURE of SAMPLER: Janet Nash

DATE Signed (MM/DD/YY): 03/26/10

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

# Sample Container Count

Pace Analytical™ www.pacelabs.com

CLIENT: Stantec ~~WO#~~ JTC 3/29/10 WO# 253365.

COC PAGE 1 of 1
COC ID# 131411d

| Sample Line Item | VG9H | AG1H | AG1U | BG1H | BP1U | BP2U | BP3U | BP2N | ~~BP2S~~ AG2S Sulfuric 500 /JTC 3/29/10 | WGFU | WGKU | ~~BP2Z~~ JTC sodium hydroxide | BP2O | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6 | 1 | 3 | | | 2 | | 1 | 1 | | | 1 | | | time discrepancy. |
| 2 | 6 | 1 | 3 | | | 2 | | 1 | 1 | | | 1 | | | |
| 3 | 6 | 1 | 3 | | | 2 | | 1 | 1 | | | 1 | | | |
| 4 | 3 | | | | | | | | | | | | | | TRIP BLANK |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | Trip Blank? |
| 12 | | | | | | | | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| AG1H | 1 liter HCL amber glass | BP2S | 500mL H2SO4 plastic | JGFU | 4oz unpreserved amber wide |
| AG1U | 1liter unpreserved amber glass | BP2U | 500mL unpreserved plastic | R | terra core kit |
| AG2S | 500mL H2SO4 amber glass | BP2Z | 500mL NaOH, Zn Ac | U | Summa Can |
| AG2U | 500mL unpreserved amber glass | BP3C | 250mL NaOH plastic | VG9H | 40mL HCL clear vial |
| AG3S | 250mL H2SO4 amber glass | BP3N | 250mL HNO3 plastic | VG9T | 40mL Na Thio. clear vial |
| BG1H | 1 liter HCL clear glass | BP3S | 250mL H2SO4 plastic | VG9U | 40mL unpreserved clear vial |
| BG1U | 1 liter unpreserved glass | BP3U | 250mL unpreserved plastic | VG9W | 40mL glass vial preweighted (EPA 5035) |
| BP1N | 1 liter HNO3 plastic | DG9B | 40mL Na Bisulfate amber vial | VSG | Headspace septa vial & HCL |
| BP1S | 1 liter H2SO4 plastic | DG9H | 40mL HCL amber voa vial | WGFU | 4oz clear soil jar |
| BP1U | 1 liter unpreserved plastic | DG9M | 40mL MeOH clear vial | WGFX | 4oz wide jar w/hexane wipe |
| BP1Z | 1 liter NaOH, Zn, Ac | DG9T | 40mL Na Thio amber vial | ZPLC | Ziploc Bag |
| BP2N | 500mL HNO3 plastic | DG9U | 40mL unpreserved amber vial | | |
| BP2O | 500mL NaOH plastic | 1 | Wipe/Swab | | |

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

April 08, 2010

Client Services
PASI Seattle
940 S. Harney
Seattle, WA 98108

RE: Project 20106996
Project ID: 253365

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2010. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerly,

Karen Brown
karen.brown@pacelabs.com

**REPORT OF LABORATORY ANALYSIS**

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

# Laboratory Certifications

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Project:** 20106996

**Client:** PASI Seattle

**Project ID:** 253365

U.S. Dept. of Agriculture Foreign Soil Import S-47270

Pennsylviania Dept. of Env Protection (NELAC) 68-04202

Texas Commission on Env. Quality (NELAC) T104704405-08-TX

Kansas Department of Health and Environment (NELAC) E-10266

Florida Department of Health (NELAC) E87595

Louisiana Dept. of Health and Hospitals (NELAC) LA080013

Louisiana Dept. of Environmental Quality (NELAC/LELAP) 02006



**REPORT OF LABORATORY ANALYSIS**

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

# Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Project:** 20106996

**Client:** PASI Seattle

**Project ID:** 253365

| Client Sample ID | Lab ID | Matrix | Collection Date/Time | Received Date/Time |
|---|---|---|---|---|
| MH-12 (4" LINE) | 20773687 | Water | 25-Mar-10 08:45 | 30-Mar-10 00:00 |
| MH-12 (12" LINE) | 20773688 | Water | 25-Mar-10 08:45 | 30-Mar-10 00:00 |
| MH-3 | 20773689 | Water | 25-Mar-10 08:45 | 30-Mar-10 00:00 |

# Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Project:** 20106996

Narrative detail for project management:

The samples in this project were prepped for 8081 on 4/5/10

# Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Project:** 20106996

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times (Qualified):

These holding times were exceeded due to sample receipt or re-extraction after the holding time had expired.

See the previous page for a detailed explanation:

Sample 20773687 analysis 35358081 8081 Water SPE Pests

Sample 20773688 analysis 35358081 8081 Water SPE Pests

Sample 20773689 analysis 35358081 8081 Water SPE Pests

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Surrogates:

All surrogate recoveries were within QC limits.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** PASI Seattle

**Client ID:** MH-12 (4" LINE)
**Project:** 20106996
**Project ID:** 253365
**Site:** None
**Lab ID:** 20773687
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 136596
**Method:** EPA 8081
8081 Pests Water
**Collected:** 25-Mar-10
**Received:** 30-Mar-10
**Prepared:** 05-Apr-10

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | MDL | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|---|
| 309-00-2 | Aldrin | 1 | ND | N | 0.0500 | 0.0198 | | 06-Apr-10 15:21 | SLF |
| 319-84-6 | alpha-BHC | 1 | ND | N | 0.0500 | 0.0209 | | 06-Apr-10 15:21 | SLF |
| 319-85-7 | beta-BHC | 1 | ND | N | 0.0500 | 0.0188 | | 06-Apr-10 15:21 | SLF |
| 319-86-8 | delta-BHC | 1 | ND | N | 0.0500 | 0.0237 | | 06-Apr-10 15:21 | SLF |
| 58-89-9 | gamma-BHC (Lindane) | 1 | ND | N | 0.0500 | 0.0134 | | 06-Apr-10 15:21 | SLF |
| 5103-71-9 | alpha-Chlordane | 1 | ND | N | 0.0500 | 0.0179 | | 06-Apr-10 15:21 | SLF |
| 5103-74-2 | gamma-Chlordane | 1 | ND | N | 0.0500 | 0.0184 | | 06-Apr-10 15:21 | SLF |
| 72-54-8 | 4,4'-DDD | 1 | ND | N | 0.100 | 0.0147 | | 06-Apr-10 15:21 | SLF |
| 72-55-9 | 4,4'-DDE | 1 | ND | N | 0.100 | 0.0194 | | 06-Apr-10 15:21 | SLF |
| 50-29-3 | 4,4'-DDT | 1 | ND | N | 0.100 | 0.0190 | | 06-Apr-10 15:21 | SLF |
| 60-57-1 | Dieldrin | 1 | ND | N | 0.100 | 0.0144 | | 06-Apr-10 15:21 | SLF |
| 959-98-8 | Endosulfan I | 1 | ND | N | 0.0500 | 0.0154 | | 06-Apr-10 15:21 | SLF |
| 33213-65-9 | Endosulfan II | 1 | ND | N | 0.100 | 0.0135 | | 06-Apr-10 15:21 | SLF |
| 1031-07-8 | Endosulfan sulfate | 1 | ND | N | 0.100 | 0.0163 | | 06-Apr-10 15:21 | SLF |
| 72-20-8 | Endrin | 1 | ND | N | 0.100 | 0.0132 | | 06-Apr-10 15:21 | SLF |
| 7421-93-4 | Endrin aldehyde | 1 | ND | N | 0.100 | 0.0208 | | 06-Apr-10 15:21 | SLF |
| 76-44-8 | Heptachlor | 1 | ND | N | 0.0500 | 0.0188 | | 06-Apr-10 15:21 | SLF |
| 1024-57-3 | Heptachlor epoxide | 1 | ND | N | 0.0500 | 0.0134 | | 06-Apr-10 15:21 | SLF |
| 72-43-5 | Methoxychlor | 1 | ND | N | 0.500 | 0.0186 | | 06-Apr-10 15:21 | SLF |
| 8001-35-2 | Toxaphene | 1 | ND | N | 2.00 | 0.610 | | 06-Apr-10 15:21 | SLF |

**20 compound(s) reported**

Protocol 4/8/2010 11:42:27

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** PASI Seattle

**Client ID:** MH-12 (12" LINE)
**Project ID:** 253365
**Lab ID:** 20773688
**Description:** None
**Method:** EPA 8081
8081 Pests Water

**Project:** 20106996
**Site:** None
**Matrix:** Water
**% Moisture:** n/a
**Prep Level:** Water
**Batch:** 136596
**Collected:** 25-Mar-10
**Received:** 30-Mar-10
**Prepared:** 05-Apr-10

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | MDL | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|---|
| 309-00-2 | Aldrin | 1 | ND | N | 0.0500 | 0.0198 | | 06-Apr-10 15:38 | SLF |
| 319-84-6 | alpha-BHC | 1 | ND | N | 0.0500 | 0.0209 | | 06-Apr-10 15:38 | SLF |
| 319-85-7 | beta-BHC | 1 | ND | N | 0.0500 | 0.0188 | | 06-Apr-10 15:38 | SLF |
| 319-86-8 | delta-BHC | 1 | ND | N | 0.0500 | 0.0237 | | 06-Apr-10 15:38 | SLF |
| 58-89-9 | gamma-BHC (Lindane) | 1 | ND | N | 0.0500 | 0.0134 | | 06-Apr-10 15:38 | SLF |
| 5103-71-9 | alpha-Chlordane | 1 | ND | N | 0.0500 | 0.0179 | | 06-Apr-10 15:38 | SLF |
| 5103-74-2 | gamma-Chlordane | 1 | ND | N | 0.0500 | 0.0184 | | 06-Apr-10 15:38 | SLF |
| 72-54-8 | 4,4'-DDD | 1 | ND | N | 0.100 | 0.0147 | | 06-Apr-10 15:38 | SLF |
| 72-55-9 | 4,4'-DDE | 1 | ND | N | 0.100 | 0.0194 | | 06-Apr-10 15:38 | SLF |
| 50-29-3 | 4,4'-DDT | 1 | ND | N | 0.100 | 0.0190 | | 06-Apr-10 15:38 | SLF |
| 60-57-1 | Dieldrin | 1 | ND | N | 0.100 | 0.0144 | | 06-Apr-10 15:38 | SLF |
| 959-98-8 | Endosulfan I | 1 | ND | N | 0.0500 | 0.0154 | | 06-Apr-10 15:38 | SLF |
| 33213-65-9 | Endosulfan II | 1 | ND | N | 0.100 | 0.0135 | | 06-Apr-10 15:38 | SLF |
| 1031-07-8 | Endosulfan sulfate | 1 | ND | N | 0.100 | 0.0163 | | 06-Apr-10 15:38 | SLF |
| 72-20-8 | Endrin | 1 | ND | N | 0.100 | 0.0132 | | 06-Apr-10 15:38 | SLF |
| 7421-93-4 | Endrin aldehyde | 1 | ND | N | 0.100 | 0.0208 | | 06-Apr-10 15:38 | SLF |
| 76-44-8 | Heptachlor | 1 | ND | N | 0.0500 | 0.0188 | | 06-Apr-10 15:38 | SLF |
| 1024-57-3 | Heptachlor epoxide | 1 | ND | N | 0.0500 | 0.0134 | | 06-Apr-10 15:38 | SLF |
| 72-43-5 | Methoxychlor | 1 | ND | N | 0.500 | 0.0186 | | 06-Apr-10 15:38 | SLF |
| 8001-35-2 | Toxaphene | 1 | ND | N | 2.00 | 0.610 | | 06-Apr-10 15:38 | SLF |

**20 compound(s) reported**

Protocol 4/8/2010 11:42:27

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** PASI Seattle

**Client ID:** MH-3
**Project ID:** 253365
**Lab ID:** 20773689
**Description:** None
**Method:** EPA 8081
8081 Pests Water

**Project:** 20106996
**Site:** None
**Matrix:** Water
**% Moisture:** n/a
**Prep Level:** Water
**Batch:** 136596
**Collected:** 25-Mar-10
**Received:** 30-Mar-10
**Prepared:** 05-Apr-10

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | MDL | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|---|
| 309-00-2 | Aldrin | 1 | ND | N | 0.0500 | 0.0198 | | 06-Apr-10 15:55 | SLF |
| 319-84-6 | alpha-BHC | 1 | ND | N | 0.0500 | 0.0209 | | 06-Apr-10 15:55 | SLF |
| 319-85-7 | beta-BHC | 1 | ND | N | 0.0500 | 0.0188 | | 06-Apr-10 15:55 | SLF |
| 319-86-8 | delta-BHC | 1 | ND | N | 0.0500 | 0.0237 | | 06-Apr-10 15:55 | SLF |
| 58-89-9 | gamma-BHC (Lindane) | 1 | ND | N | 0.0500 | 0.0134 | | 06-Apr-10 15:55 | SLF |
| 5103-71-9 | alpha-Chlordane | 1 | ND | N | 0.0500 | 0.0179 | | 06-Apr-10 15:55 | SLF |
| 5103-74-2 | gamma-Chlordane | 1 | ND | N | 0.0500 | 0.0184 | | 06-Apr-10 15:55 | SLF |
| 72-54-8 | 4,4'-DDD | 1 | ND | N | 0.100 | 0.0147 | | 06-Apr-10 15:55 | SLF |
| 72-55-9 | 4,4'-DDE | 1 | ND | N | 0.100 | 0.0194 | | 06-Apr-10 15:55 | SLF |
| 50-29-3 | 4,4'-DDT | 1 | ND | N | 0.100 | 0.0190 | | 06-Apr-10 15:55 | SLF |
| 60-57-1 | Dieldrin | 1 | ND | N | 0.100 | 0.0144 | | 06-Apr-10 15:55 | SLF |
| 959-98-8 | Endosulfan I | 1 | ND | N | 0.0500 | 0.0154 | | 06-Apr-10 15:55 | SLF |
| 33213-65-9 | Endosulfan II | 1 | ND | N | 0.100 | 0.0135 | | 06-Apr-10 15:55 | SLF |
| 1031-07-8 | Endosulfan sulfate | 1 | ND | N | 0.100 | 0.0163 | | 06-Apr-10 15:55 | SLF |
| 72-20-8 | Endrin | 1 | ND | N | 0.100 | 0.0132 | | 06-Apr-10 15:55 | SLF |
| 7421-93-4 | Endrin aldehyde | 1 | ND | N | 0.100 | 0.0208 | | 06-Apr-10 15:55 | SLF |
| 76-44-8 | Heptachlor | 1 | ND | N | 0.0500 | 0.0188 | | 06-Apr-10 15:55 | SLF |
| 1024-57-3 | Heptachlor epoxide | 1 | ND | N | 0.0500 | 0.0134 | | 06-Apr-10 15:55 | SLF |
| 72-43-5 | Methoxychlor | 1 | ND | N | 0.500 | 0.0186 | | 06-Apr-10 15:55 | SLF |
| 8001-35-2 | Toxaphene | 1 | ND | N | 2.00 | 0.610 | | 06-Apr-10 15:55 | SLF |

**20 compound(s) reported**

Protocol 4/8/2010 11:42:27

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Organics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Batch:** 136596 **Project:** 20106996 **LCS:** 20773843 06-Apr-10 15:04

**Method:** GC Pesticides/PCBs **MS:**

**Units:** ug/L **MSD:**

**Original for MS:**

| Parameter Name | LCS Spike | LCS Found | LCS %Rec | MS Spike | Sample Found | MS Found | MSD Found | MS %Rec | MSD %Rec | RPD | QC Limits LCS | QC Limits MS/MSD | Max RPD | Qu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.500 | 0.144 | 29 | | | | | | | | 10-110 | | | Q5 |
| alpha-BHC | 0.500 | 0.413 | 83 | | | | | | | | 21-132 | | | Q5 |
| beta-BHC | 0.500 | 0.450 | 90 | | | | | | | | 28-135 | | | Q5 |
| delta-BHC | 0.500 | 0.417 | 83 | | | | | | | | 26-140 | | | Q5 |
| gamma-BHC (Lindane) | 0.500 | 0.422 | 84 | | | | | | | | 22-136 | | | Q5 |
| alpha-Chlordane | 0.500 | 0.330 | 66 | | | | | | | | 24-123 | | | Q5 |
| gamma-Chlordane | 0.500 | 0.305 | 61 | | | | | | | | 20-123 | | | Q5 |
| 4,4'-DDD | 0.500 | 0.376 | 75 | | | | | | | | 26-136 | | | Q5 |
| 4,4'-DDE | 0.500 | 0.285 | 57 | | | | | | | | 15-110 | | | Q5 |
| 4,4'-DDT | 0.500 | 0.334 | 67 | | | | | | | | 24-119 | | | Q5 |
| Dieldrin | 0.500 | 0.368 | 74 | | | | | | | | 29-129 | | | Q5 |
| Endosulfan I | 0.500 | 0.323 | 65 | | | | | | | | 10-114 | | | Q5 |
| Endosulfan II | 0.500 | 0.327 | 65 | | | | | | | | 10-120 | | | Q5 |
| Endosulfan sulfate | 0.500 | 0.399 | 80 | | | | | | | | 30-140 | | | Q5 |
| Endrin | 0.500 | 0.465 | 93 | | | | | | | | 26-167 | | | Q5 |
| Endrin aldehyde | 0.500 | 0.369 | 74 | | | | | | | | 24-138 | | | Q5 |
| Heptachlor | 0.500 | 0.261 | 52 | | | | | | | | 10-120 | | | Q5 |
| Heptachlor epoxide | 0.500 | 0.342 | 68 | | | | | | | | 24-126 | | | Q5 |
| Methoxychlor | 0.500 | 0.449 | 90 | | | | | | | | 23-160 | | | Q5 |

**19 compound(s) reported**

4/8/2010 11:42:28

*** denotes recovery outside of QC limits.**
**MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.**

# Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Batch:** 136596 **Project:** 20106996

**Method:** Water GC Pesticides/PCBs

| Lab ID | Sample ID | Qu | Sur 1 %Rec | Sur 2 %Rec | Sur 3 %Rec | Sur 4 %Rec | Sur 5 %Rec | Sur 6 %Rec | Sur 7 %Rec | Sur 8 %Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| 20773842 | 136596 BLANK 1 | | 54 | 53 | 39 | 40 | | | | |
| 20773843 | 136596 LCS 1 | | 61 | 57 | 45 | 47 | | | | |
| 20773688 | MH-12 (12" LINE) | N | 76 | 67 | 61 | 69 | | | | |
| 20773687 | MH-12 (4" LINE) | N | 62 | 59 | 65 | 65 | | | | |
| 20773689 | MH-3 | N | 69 | 63 | 46 | 51 | | | | |
| | QC limits: | | 10-137 | 10-137 | 18-119 | 18-119 | | | | |

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

4/8/2010 11:42:29

*** denotes surrogate recovery outside of QC limits.**
**D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.**

# Organics Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Blank ID:** 136596 BLANK 1 **Project:** 20106996

**Lab ID:** 20773842

**Prep Level:** Water **Batch:** 136596

**Method:** Water GC Pesticides/PCBs

**Prepared:** 05-Apr-10

**Units:** ug/L

| CAS Numb | Analyte | Dilution | Result | Qu | Reporting Limit | MDL | Analysis | |
|---|---|---|---|---|---|---|---|---|
| 309-00-2 | Aldrin | 1 | ND | | 0.0500 | 0.0198 | 06-Apr-10 14:47 | SLF |
| 319-84-6 | alpha-BHC | 1 | ND | | 0.0500 | 0.0209 | 06-Apr-10 14:47 | SLF |
| 319-85-7 | beta-BHC | 1 | ND | | 0.0500 | 0.0188 | 06-Apr-10 14:47 | SLF |
| 319-86-8 | delta-BHC | 1 | ND | | 0.0500 | 0.0237 | 06-Apr-10 14:47 | SLF |
| 58-89-9 | gamma-BHC (Lindane) | 1 | ND | | 0.0500 | 0.0134 | 06-Apr-10 14:47 | SLF |
| 5103-71-9 | alpha-Chlordane | 1 | ND | | 0.0500 | 0.0179 | 06-Apr-10 14:47 | SLF |
| 5103-74-2 | gamma-Chlordane | 1 | ND | | 0.0500 | 0.0184 | 06-Apr-10 14:47 | SLF |
| 72-54-8 | 4,4'-DDD | 1 | ND | | 0.100 | 0.0147 | 06-Apr-10 14:47 | SLF |
| 72-55-9 | 4,4'-DDE | 1 | ND | | 0.100 | 0.0194 | 06-Apr-10 14:47 | SLF |
| 50-29-3 | 4,4'-DDT | 1 | ND | | 0.100 | 0.0190 | 06-Apr-10 14:47 | SLF |
| 60-57-1 | Dieldrin | 1 | ND | | 0.100 | 0.0144 | 06-Apr-10 14:47 | SLF |
| 959-98-8 | Endosulfan I | 1 | ND | | 0.0500 | 0.0154 | 06-Apr-10 14:47 | SLF |
| 33213-65-9 | Endosulfan II | 1 | ND | | 0.100 | 0.0135 | 06-Apr-10 14:47 | SLF |
| 1031-07-8 | Endosulfan sulfate | 1 | ND | | 0.100 | 0.0163 | 06-Apr-10 14:47 | SLF |
| 72-20-8 | Endrin | 1 | ND | | 0.100 | 0.0132 | 06-Apr-10 14:47 | SLF |
| 7421-93-4 | Endrin aldehyde | 1 | ND | | 0.100 | 0.0208 | 06-Apr-10 14:47 | SLF |
| 76-44-8 | Heptachlor | 1 | ND | | 0.0500 | 0.0188 | 06-Apr-10 14:47 | SLF |
| 1024-57-3 | Heptachlor epoxide | 1 | ND | | 0.0500 | 0.0134 | 06-Apr-10 14:47 | SLF |
| 72-43-5 | Methoxychlor | 1 | ND | | 0.500 | 0.0186 | 06-Apr-10 14:47 | SLF |
| 8001-35-2 | Toxaphene | 1 | ND | | 2.00 | 0.610 | 06-Apr-10 14:47 | SLF |

**20 compound(s) reported**

4/8/2010 11:42:31

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Definitions/Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Project:** 20106996

| Value | Description |
|---|---|
| N | See narrative for a detailed explanation. |
| Q5 | Insufficient sample was provided to perform matrix spike analyses on any sample in this analytical batch. Method performance for this analyte has been demonstrated by the laboratory control sample recovery. |
| J | This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit. |
| U | The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated. |
| B | This analyte was detected in the method blank. |
| E | The sample concentration is above the linear calibrated range of the analysis. |
| ND | The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated. |
| MDL | The adjusted method detection limit. |
| LCS(D) | Laboratory Control Sample (Duplicate). |
| MS(D) | Matrix Spike (Duplicate). |
| DUP | Sample Duplicate. |
| RPD | Relative Percent Difference. |

20106996 PASI-SEAT

# Chain of Custody

20106996

Pace Analytical®
www.pacelabs.com

**Workorder:** 253365 **Workorder Name:** 00922 - Storm Water **Owner Received Date:** 3/27/2010 **Results Requested By:** 4/8/2010

**Report To**

Jennifer Gross
Pace Analytical Services, Inc.
940 South Harney
Seattle WA 98108
Phone (206)767-5060
Fax (206)767-5063

**Subcontract To**

Pace Analytical New Orleans
1000 Riverbend Blvd
Suite F
St. Rose, LA 70087
Phone (504)469-0333

| Item | Sample ID | Collect Date/Time | Lab ID | Matrix | Preserved Containers: Unpreserved | | | | | | Requested Analysis: 8081 Pesticides | | | | | | | | | | | | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MH-12 (4" Line) | 3/25/2010 08:45 | 253365001 | Water | 1 | | | | | | X | | | | | | | | | | | | |
| 2 | MH-12 (12" Line) | 3/25/2010 11:30 | 253365002 | Water | 1 | | | | | | X | | | | | | | | | | | | |
| 3 | MH-3 | 3/25/2010 12:00 | 253365003 | Water | 1 | | | | | | X | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | |

| Transfers | Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |

**Comments**

Report to the MDL. Ole
Needs OR state certification.

206.957.2426.

**Cooler Temperature on Receipt** °C | **Custody Seal** Y or N | **Received on Ice** Y or N | **Samples Intact** Y or N

20106996 PASI-SEAT

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Condition Upon Receipt

Project #: 20

**Courier:** ☐ Pace Courier ☐ Hackbarth ☑ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC]

**Custody Seals Intact:** ☑ Yes ☐ No

**Therometer Used:** ☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2 ☐ Therm Fisher IR 3

**Type of Ice:** Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and initials of person examining contents: 3-30-10

Temp must be measured from Temperature blank when present

| | | | | Comments: |
|---|---|---|---|---|
| Temperature Blank Present"? | ☐ Yes | ☑ No | ☐ N/A | 1 |
| Chain of Custody Present: | ☑ Yes | ☐ No | ☐ N/A | 2 |
| Chain of Custody Complete: | ☑ Yes | ☐ No | ☐ N/A | 3 |
| Chain of Custody Relinquished: | ☑ Yes | ☐ No | ☐ N/A | 4 |
| Sampler Name & Signature on COC: | ☑ Yes | ☐ No | ☐ N/A | 5 |
| Samples Arrived within Hold Time: | ☑ Yes | ☐ No | ☐ N/A | 6 |
| Sufficient Volume: | ☑ Yes | ☐ No | ☐ N/A | 7 |
| Correct Containers Used: | ☑ Yes | ☐ No | ☐ N/A | 8 |
| Filtered vol. Rec. for Diss. tests ☐ Yes ☐ No | | | ☑ N/A | 9 |
| Sample Labels match COC: | ☑ Yes | ☐ No | ☐ N/A | 10 |
| All containers received within manufacture's precautionary and/or expiration dates. | ☑ Yes | ☐ No | ☐ N/A | 11 |
| All containers needing preservation have been checked (except VOA, coliform, & O&G). | ☐ Yes | ☐ No | ☑ N/A | 12 |
| All containers preservation checked found to be in compliance with EPA recommendation. | ☐ Yes | ☐ No | ☑ N/A | 13 — If No, was preserative added? ☐ Yes ☐ No<br>If added record lot no.: HNO3 _____ H2SO4 _____ |
| Samples checked for dechlorination: | ☐ Yes | ☐ No | ☑ N/A | 14 |
| Headspace in VOA Vials ( >6mm): | ☐ Yes | ☐ No | ☑ N/A | 14 |
| Trip Blank Present: ☐ Yes ☐ No | | | ☑ N/A | 16 |
| Trip Blank Custody Seals Present ☐ Yes ☐ No | | | ☑ N/A | 17 |
| Pace Trip Blank Lot # (if purchased): N/A | | | | 18 |

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

ALLC003rev.05, 12Jun2009 - mod

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

January 21, 2011

Client Services
Pace Analytical Seattle
940 South Harney
Seattle, WA 98108

RE: Project: 253365 COP_Stantec Oregon
Pace Project No.: 10125291

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Cory C Lund

cory.lund@pacelabs.com
Project Manager

Enclosures

cc: Jennifer Gross, Pace Analytical Seattle



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

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

# CERTIFICATIONS

Project: 253365 COP_Stantec Oregon
Pace Project No.: 10125291

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



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

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

# ANALYTICAL RESULTS

Project: 253365 COP_Stantec Oregon
Pace Project No.: 10125291

**Sample: MH-12 (4'LINE)** **Lab ID: 253365001** Collected: 03/25/10 08:45 Received: 03/30/10 10:05 Matrix: Water

| Parameters | Results | Units | PQL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | |
| Arsenic | **0.19J** | ug/L | 0.50 | 1 | | 04/01/10 20:33 | 7440-38-2 | |
| Barium | **6.4** | ug/L | 0.30 | 1 | | 04/01/10 20:33 | 7440-39-3 | |
| Cadmium | **0.073J** | ug/L | 0.080 | 1 | | 04/01/10 20:33 | 7440-43-9 | |
| Chromium | **0.24J** | ug/L | 0.50 | 1 | | 04/01/10 20:33 | 7440-47-3 | |
| Copper | **2.9** | ug/L | 0.50 | 1 | | 04/01/10 20:33 | 7440-50-8 | |
| Lead | **0.26** | ug/L | 0.10 | 1 | | 04/01/10 20:33 | 7439-92-1 | |
| Manganese | **9.4** | ug/L | 0.50 | 1 | | 04/01/10 20:33 | 7439-96-5 | |
| Selenium | **<0.10** | ug/L | 0.50 | 1 | | 04/01/10 20:33 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 1 | | 04/01/10 20:33 | 7440-22-4 | |
| Zinc | **146** | ug/L | 5.0 | 1 | | 04/01/10 20:33 | 7440-66-6 | |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | |
| Arsenic, Dissolved | **1.3** | ug/L | 0.50 | 1 | | 04/02/10 13:57 | 7440-38-2 | |
| Barium, Dissolved | **7.7** | ug/L | 0.30 | 1 | | 04/02/10 13:57 | 7440-39-3 | |
| Cadmium, Dissolved | **0.043J** | ug/L | 0.080 | 1 | | 04/02/10 13:57 | 7440-43-9 | |
| Chromium, Dissolved | **<0.24** | ug/L | 0.50 | 1 | | 04/02/10 13:57 | 7440-47-3 | |
| Copper, Dissolved | **2.5** | ug/L | 0.50 | 1 | | 04/02/10 13:57 | 7440-50-8 | |
| Lead, Dissolved | **0.079J** | ug/L | 0.10 | 1 | | 04/02/10 13:57 | 7439-92-1 | |
| Manganese, Dissolved | **6.9** | ug/L | 0.50 | 1 | | 04/02/10 13:57 | 7439-96-5 | |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 1 | | 04/02/10 13:57 | 7782-49-2 | |
| Silver, Dissolved | **<0.071** | ug/L | 0.50 | 1 | | 04/02/10 13:57 | 7440-22-4 | |
| Zinc, Dissolved | **142** | ug/L | 5.0 | 1 | | 04/02/10 13:57 | 7440-66-6 | |

**Sample: MH-12 (12'LINE)** **Lab ID: 253365002** Collected: 03/25/10 11:30 Received: 03/30/10 10:05 Matrix: Water

| Parameters | Results | Units | PQL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | |
| Arsenic | **33.9** | ug/L | 0.50 | 1 | | 04/01/10 20:49 | 7440-38-2 | |
| Barium | **44.8** | ug/L | 0.30 | 1 | | 04/01/10 20:49 | 7440-39-3 | |
| Cadmium | **0.17** | ug/L | 0.080 | 1 | | 04/01/10 20:49 | 7440-43-9 | |
| Chromium | **7.0** | ug/L | 0.50 | 1 | | 04/01/10 20:49 | 7440-47-3 | |
| Copper | **136** | ug/L | 0.50 | 1 | | 04/01/10 20:49 | 7440-50-8 | |
| Lead | **22.0** | ug/L | 0.10 | 1 | | 04/01/10 20:49 | 7439-92-1 | |
| Manganese | **180** | ug/L | 0.50 | 1 | | 04/01/10 20:49 | 7439-96-5 | |
| Selenium | **0.28J** | ug/L | 0.50 | 1 | | 04/01/10 20:49 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 1 | | 04/01/10 20:49 | 7440-22-4 | |
| Zinc | **154** | ug/L | 5.0 | 1 | | 04/01/10 20:49 | 7440-66-6 | |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | |
| Arsenic, Dissolved | **1.1** | ug/L | 0.50 | 1 | | 04/02/10 14:18 | 7440-38-2 | |
| Barium, Dissolved | **14.2** | ug/L | 0.30 | 1 | | 04/02/10 14:18 | 7440-39-3 | |
| Cadmium, Dissolved | **<0.020** | ug/L | 0.080 | 1 | | 04/02/10 14:18 | 7440-43-9 | |
| Chromium, Dissolved | **0.26J** | ug/L | 0.50 | 1 | | 04/02/10 14:18 | 7440-47-3 | |
| Copper, Dissolved | **2.0** | ug/L | 0.50 | 1 | | 04/02/10 14:18 | 7440-50-8 | |



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

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

# ANALYTICAL RESULTS

Project: 253365 COP_Stantec Oregon
Pace Project No.: 10125291

**Sample: MH-12 (12'LINE)** **Lab ID: 253365002** Collected: 03/25/10 11:30 Received: 03/30/10 10:05 Matrix: Water

| Parameters | Results | Units | PQL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | |
| Lead, Dissolved | **0.22** | ug/L | 0.10 | 1 | | 04/02/10 14:18 | 7439-92-1 | |
| Manganese, Dissolved | **2.8** | ug/L | 0.50 | 1 | | 04/02/10 14:18 | 7439-96-5 | |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 1 | | 04/02/10 14:18 | 7782-49-2 | |
| Silver, Dissolved | **<0.071** | ug/L | 0.50 | 1 | | 04/02/10 14:18 | 7440-22-4 | |
| Zinc, Dissolved | **19.5** | ug/L | 5.0 | 1 | | 04/02/10 14:18 | 7440-66-6 | |

**Sample: MH-13** **Lab ID: 253365003** Collected: 03/25/10 12:00 Received: 03/30/10 10:05 Matrix: Water

| Parameters | Results | Units | PQL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | |
| Arsenic | **1.2** | ug/L | 0.50 | 1 | | 04/01/10 20:58 | 7440-38-2 | |
| Barium | **4.6** | ug/L | 0.30 | 1 | | 04/01/10 20:58 | 7440-39-3 | |
| Cadmium | **0.020J** | ug/L | 0.080 | 1 | | 04/01/10 20:58 | 7440-43-9 | |
| Chromium | **1.0** | ug/L | 0.50 | 1 | | 04/01/10 20:58 | 7440-47-3 | |
| Copper | **7.0** | ug/L | 0.50 | 1 | | 04/01/10 20:58 | 7440-50-8 | |
| Lead | **2.8** | ug/L | 0.10 | 1 | | 04/01/10 20:58 | 7439-92-1 | |
| Manganese | **4.6** | ug/L | 0.50 | 1 | | 04/01/10 20:58 | 7439-96-5 | |
| Selenium | **<0.10** | ug/L | 0.50 | 1 | | 04/01/10 20:58 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 1 | | 04/01/10 20:58 | 7440-22-4 | |
| Zinc | **33.0** | ug/L | 5.0 | 1 | | 04/01/10 20:58 | 7440-66-6 | |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | |
| Arsenic, Dissolved | **1.6** | ug/L | 0.50 | 1 | | 04/02/10 14:22 | 7440-38-2 | |
| Barium, Dissolved | **5.1** | ug/L | 0.30 | 1 | | 04/02/10 14:22 | 7440-39-3 | |
| Cadmium, Dissolved | **<0.020** | ug/L | 0.080 | 1 | | 04/02/10 14:22 | 7440-43-9 | |
| Chromium, Dissolved | **0.86** | ug/L | 0.50 | 1 | | 04/02/10 14:22 | 7440-47-3 | |
| Copper, Dissolved | **3.5** | ug/L | 0.50 | 1 | | 04/02/10 14:22 | 7440-50-8 | |
| Lead, Dissolved | **1.3** | ug/L | 0.10 | 1 | | 04/02/10 14:22 | 7439-92-1 | |
| Manganese, Dissolved | **2.3** | ug/L | 0.50 | 1 | | 04/02/10 14:22 | 7439-96-5 | |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 1 | | 04/02/10 14:22 | 7782-49-2 | |
| Silver, Dissolved | **<0.071** | ug/L | 0.50 | 1 | | 04/02/10 14:22 | 7440-22-4 | |
| Zinc, Dissolved | **14.9** | ug/L | 5.0 | 1 | | 04/02/10 14:22 | 7440-66-6 | |



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

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

# QUALIFIERS

Project: 253365 COP_Stantec Oregon
Pace Project No.: 10125291

**DEFINITIONS**

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

April 26, 2010

Alice Larsen
COP_Stantec Oregon
7730 SW Mohawk Street
Tualatin, OR 97062

RE: Project: 00922 - Storm Water
Pace Project No.: 253480

Dear Alice Larsen:

Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The PCB results reported for workorder 253480 do not meet all Conoco-Philips technical specifications. The continuing calibration verification samples (CCV's) do not meet the criteria of all quantitation peaks being within +/- 15% true value, due to matrix interferences caused by sample analysis. The average of all the quantitation peaks in the CCV's does meet the +/- 15% criteria, as specified in COP technical specifications. All reported data do meet quality control criteria set forth in SW846, method 8082.

Corrective action was taken in the form of sample re-analysis including instrument solvent bakeouts between sample injections to help lessen interferences.

Incorrect sample bottles were shipped to the client for cyanide analysis. Upon return, only SEP-001 was received with the correct preservative. All other samples do not have cyanide results reported. The client was contacted of this situation immediately. The lab has instituted a verification process for sending bulk bottle orders, to eliminate further errors.

Analyses of the samples in work order 253480 for TSS by Method 2540D, resulted in missed holding times due to a laboratory oversight. The lab has instituted a new process for tracking all laboratory holding times in order to prevent any further holding time violations.



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060



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

Sincerely,

Jennifer Gross

jennifer.gross@pacelabs.com
Project Manager

Enclosures

cc: Mark Bare, COP_Stantec Oregon
Chris Carlton-Franco, Stantec
Janet Nash, Stantec
Mark Trewartha, Stantec



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# CERTIFICATIONS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Minnesota Certification IDs**

Alaska Certification #: UST-078
Arizona Certification #: AZ-0014
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Wisconsin Certification #: 999407970
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA

**Washington Certification IDs**

940 South Harney Street Seattle, WA 98108
Alaska CS Certification #: UST-025
Alaska Drinking Water VOC Certification #: WA01-09
Alaska Drinking Water Micro Certification #: WA01230
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C1229

**Kansas Certification IDs**

Illinois Certification #: 001191
Arkansas Certification #: 05-008-0
A2LA Certification #: 2456.01
Washington Certification #: C2069
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Oregon Certification #: KS200001
9608 Loiret Boulevard Lenexa, KS 66219
Utah Certification #: 9135995665
Texas Certification #: T104704407-08-TX



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

## SAMPLE SUMMARY

Project: 00922 - Storm Water
Pace Project No.: 253480

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **253480001** | **MH-12 (4'' Line)** | Water | 04/08/10 06:15 | 04/09/10 09:30 |
| **253480002** | **MH-X** | Water | 04/08/10 07:30 | 04/09/10 09:30 |
| **253480003** | **MH-12 (12'')** | Water | 04/08/10 08:00 | 04/09/10 09:30 |
| **253480004** | **MH-12 (6'')** | Water | 04/08/10 08:30 | 04/09/10 09:30 |
| **253480005** | **MH-3** | Water | 04/08/10 10:30 | 04/09/10 09:30 |
| **253480006** | **SEP-001** | Water | 04/08/10 11:00 | 04/09/10 09:30 |
| **253480007** | **CB-42** | Water | 04/08/10 11:45 | 04/09/10 09:30 |
| **253480008** | **Trip Blank** | Water | 04/08/10 00:00 | 04/09/10 09:30 |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# SAMPLE ANALYTE COUNT

Project: 00922 - Storm Water
Pace Project No.: 253480

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **253480001** | **MH-12 (4'' Line)** | EPA 8082 | ERB | 11 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LNH | 3 | PASI-S |
| | | EPA 6020 | CJS | 10 | PASI-M |
| | | EPA 6020 | CJS, RJS | 10 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | DMT | 21 | PASI-S |
| | | EPA 8270 | DMT | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | CMS | 1 | PASI-S |
| | | EPA 9060 | SRM1 | 1 | PASI-K |
| **253480002** | **MH-X** | EPA 8082 | ERB | 11 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LNH | 3 | PASI-S |
| | | EPA 6020 | CJS | 10 | PASI-M |
| | | EPA 6020 | CJS, RJS | 10 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | DMT | 21 | PASI-S |
| | | EPA 8270 | DMT | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | CMS | 1 | PASI-S |
| | | EPA 9060 | SRM1 | 1 | PASI-K |
| **253480003** | **MH-12 (12'')** | EPA 8082 | ERB | 11 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LNH | 3 | PASI-S |
| | | EPA 6020 | CJS | 10 | PASI-M |
| | | EPA 6020 | CJS, RJS | 10 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | DMT | 21 | PASI-S |
| | | EPA 8270 | DMT | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | CMS | 1 | PASI-S |
| | | EPA 9060 | SRM1 | 1 | PASI-K |
| **253480004** | **MH-12 (6'')** | EPA 8082 | ERB | 11 | PASI-S |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

## SAMPLE ANALYTE COUNT

Project: 00922 - Storm Water
Pace Project No.: 253480

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LNH | 3 | PASI-S |
| | | EPA 6020 | CJS | 10 | PASI-M |
| | | EPA 6020 | CJS, RJS | 10 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | DMT | 21 | PASI-S |
| | | EPA 8270 | DMT | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | CMS | 1 | PASI-S |
| | | EPA 9060 | SRM1 | 1 | PASI-K |
| **253480005** | **MH-3** | EPA 8082 | ERB | 11 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LNH | 3 | PASI-S |
| | | EPA 6020 | CJS | 10 | PASI-M |
| | | EPA 6020 | CJS, RJS | 10 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | DMT | 21 | PASI-S |
| | | EPA 8270 | DMT | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | CMS | 1 | PASI-S |
| | | EPA 9060 | SRM1 | 1 | PASI-K |
| **253480006** | **SEP-001** | EPA 8082 | ERB | 11 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LNH | 3 | PASI-S |
| | | EPA 6020 | CJS | 10 | PASI-M |
| | | EPA 6020 | CJS, RJS | 10 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | DMT | 21 | PASI-S |
| | | EPA 8270 | DMT | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | CMS | 1 | PASI-S |
| | | EPA 9012A | BPR | 1 | PASI-S |
| | | EPA 9060 | SRM1 | 1 | PASI-K |
| **253480007** | **CB-42** | EPA 8082 | ERB | 11 | PASI-S |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

## SAMPLE ANALYTE COUNT

Project: 00922 - Storm Water
Pace Project No.: 253480

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LNH | 3 | PASI-S |
| | | EPA 6020 | CJS | 10 | PASI-M |
| | | EPA 6020 | CJS, RJS | 10 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | DMT | 21 | PASI-S |
| | | EPA 8270 | DMT | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | CMS | 1 | PASI-S |
| | | EPA 9060 | SRM1 | 1 | PASI-K |
| **253480008** | **Trip Blank** | NWTPH-Gx | LPM | 3 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-12 (4" Line)** **Lab ID: 253480001** Collected: 04/08/10 06:15 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.047 | 0.013 | 1 | 04/13/10 12:10 | 04/20/10 19:43 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.047 | 0.015 | 1 | 04/13/10 12:10 | 04/20/10 19:43 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.047 | 0.021 | 1 | 04/13/10 12:10 | 04/20/10 19:43 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.047 | 0.017 | 1 | 04/13/10 12:10 | 04/20/10 19:43 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0094** | ug/L | 0.047 | 0.0094 | 1 | 04/13/10 12:10 | 04/20/10 19:43 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.047** | ug/L | 0.047 | 0.047 | 1 | 04/13/10 12:10 | 04/20/10 19:43 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.026** | ug/L | 0.047 | 0.026 | 1 | 04/13/10 12:10 | 04/20/10 19:43 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0027** | ug/L | 0.047 | 0.0027 | 1 | 04/13/10 12:10 | 04/20/10 19:43 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.047 | 0.024 | 1 | 04/13/10 12:10 | 04/20/10 19:43 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 92 | % | 64-120 | | 1 | 04/13/10 12:10 | 04/20/10 19:43 | 877-09-8 | |
| Decachlorobiphenyl (S) | 97 | % | 44-120 | | 1 | 04/13/10 12:10 | 04/20/10 19:43 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<37.0** | ug/L | 80.0 | 37.0 | 1 | 04/15/10 11:25 | 04/16/10 16:41 | | |
| Motor Oil Range SG | **101J** | ug/L | 400 | 61.0 | 1 | 04/15/10 11:25 | 04/16/10 16:41 | 64742-65-0 | |
| n-Octacosane (S) SG | 110 | % | 50-150 | | 1 | 04/15/10 11:25 | 04/16/10 16:41 | 630-02-4 | |
| o-Terphenyl (S) SG | 103 | % | 50-150 | | 1 | 04/15/10 11:25 | 04/16/10 16:41 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **<13.4** | ug/L | 50.0 | 13.4 | 1 | | 04/12/10 20:42 | | |
| a,a,a-Trifluorotoluene (S) | 99 | % | 50-150 | | 1 | | 04/12/10 20:42 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 94 | % | 50-150 | | 1 | | 04/12/10 20:42 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **<0.062** | ug/L | 0.50 | 0.062 | 1 | 04/16/10 11:04 | 04/17/10 03:28 | 7440-38-2 | |
| Barium | **0.91** | ug/L | 0.30 | 0.043 | 1 | 04/16/10 11:04 | 04/17/10 03:28 | 7440-39-3 | B |
| Cadmium | **<0.020** | ug/L | 0.080 | 0.020 | 1 | 04/16/10 11:04 | 04/17/10 03:28 | 7440-43-9 | |
| Chromium | **<0.24** | ug/L | 0.50 | 0.24 | 1 | 04/16/10 11:04 | 04/17/10 03:28 | 7440-47-3 | |
| Copper | **0.34J** | ug/L | 0.50 | 0.20 | 1 | 04/16/10 11:04 | 04/17/10 03:28 | 7440-50-8 | |
| Lead | **0.087J** | ug/L | 0.10 | 0.020 | 1 | 04/16/10 11:04 | 04/17/10 03:28 | 7439-92-1 | B |
| Manganese | **0.98** | ug/L | 0.50 | 0.050 | 1 | 04/16/10 11:04 | 04/17/10 03:28 | 7439-96-5 | B |
| Selenium | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 04/16/10 11:04 | 04/17/10 03:28 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 04/16/10 11:04 | 04/17/10 03:28 | 7440-22-4 | |
| Zinc | **30.9** | ug/L | 5.0 | 1.3 | 1 | 04/16/10 11:04 | 04/17/10 03:28 | 7440-66-6 | M0 |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **0.071J** | ug/L | 0.50 | 0.062 | 1 | 04/16/10 11:36 | 04/19/10 16:59 | 7440-38-2 | |
| Barium, Dissolved | **3.8** | ug/L | 0.30 | 0.043 | 1 | 04/16/10 11:36 | 04/19/10 16:59 | 7440-39-3 | |
| Cadmium, Dissolved | **0.22** | ug/L | 0.080 | 0.020 | 1 | 04/16/10 11:36 | 04/19/10 16:59 | 7440-43-9 | |
| Chromium, Dissolved | **0.35J** | ug/L | 0.50 | 0.24 | 1 | 04/16/10 11:36 | 04/19/10 16:59 | 7440-47-3 | |
| Copper, Dissolved | **1.7** | ug/L | 0.50 | 0.20 | 1 | 04/16/10 11:36 | 04/20/10 11:47 | 7440-50-8 | |
| Lead, Dissolved | **0.022J** | ug/L | 0.10 | 0.020 | 1 | 04/16/10 11:36 | 04/19/10 16:59 | 7439-92-1 | |
| Manganese, Dissolved | **3.7** | ug/L | 0.50 | 0.050 | 1 | 04/16/10 11:36 | 04/19/10 16:59 | 7439-96-5 | |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 04/16/10 11:36 | 04/19/10 16:59 | 7782-49-2 | |
| Silver, Dissolved | **0.088J** | ug/L | 0.50 | 0.071 | 1 | 04/16/10 11:36 | 04/19/10 16:59 | 7440-22-4 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-12 (4" Line)** **Lab ID: 253480001** Collected: 04/08/10 06:15 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Zinc, Dissolved | **136** | ug/L | 5.0 | 1.3 | 1 | 04/16/10 11:36 | 04/19/10 16:59 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 04/14/10 11:14 | 04/14/10 15:36 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 04/14/10 11:14 | 04/14/10 16:07 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **<0.0060** | ug/L | 0.014 | 0.0060 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 90-12-0 | |
| 2-Chloronaphthalene | **<0.0013** | ug/L | 0.014 | 0.0013 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 91-58-7 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 91-57-6 | |
| Acenaphthene | **0.0048J** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 83-32-9 | |
| Acenaphthylene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 208-96-8 | |
| Anthracene | **<0.0012** | ug/L | 0.014 | 0.0012 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 56-55-3 | B- |
| Benzo(a)pyrene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 50-32-8 | |
| Benzo(b)fluoranthene | **<0.0019** | ug/L | 0.014 | 0.0019 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 205-99-2 | |
| Benzo(g,h,i)perylene | **<0.0016** | ug/L | 0.014 | 0.0016 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 191-24-2 | |
| Benzo(k)fluoranthene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 207-08-9 | B- |
| Chrysene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 53-70-3 | |
| Fluoranthene | **0.0046J** | ug/L | 0.014 | 0.0018 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 206-44-0 | |
| Fluorene | **0.0040J** | ug/L | 0.014 | 0.0036 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 193-39-5 | |
| Naphthalene | **0.016** | ug/L | 0.014 | 0.0014 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 91-20-3 | |
| Phenanthrene | **0.011J** | ug/L | 0.014 | 0.0036 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 85-01-8 | |
| Pyrene | **0.0038J** | ug/L | 0.014 | 0.0019 | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 129-00-0 | B |
| 2-Fluorobiphenyl (S) | 77 | % | 40-106 | | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 321-60-8 | |
| Terphenyl-d14 (S) | 77 | % | 55-146 | | 1 | 04/13/10 12:10 | 04/20/10 21:23 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **5.7** | ug/L | 4.7 | 0.43 | 1 | 04/14/10 10:55 | 04/15/10 00:15 | 85-68-7 | |
| Di-n-butylphthalate | **<0.44** | ug/L | 4.7 | 0.44 | 1 | 04/14/10 10:55 | 04/15/10 00:15 | 84-74-2 | |
| Di-n-octylphthalate | **<0.47** | ug/L | 4.7 | 0.47 | 1 | 04/14/10 10:55 | 04/15/10 00:15 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.7 | 0.41 | 1 | 04/14/10 10:55 | 04/15/10 00:15 | 84-66-2 | |
| Dimethylphthalate | **<0.26** | ug/L | 4.7 | 0.26 | 1 | 04/14/10 10:55 | 04/15/10 00:15 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.94** | ug/L | 4.7 | 0.94 | 1 | 04/14/10 10:55 | 04/15/10 00:15 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 83 | % | 38-121 | | 1 | 04/14/10 10:55 | 04/15/10 00:15 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 78 | % | 40-110 | | 1 | 04/14/10 10:55 | 04/15/10 00:15 | 321-60-8 | |
| Terphenyl-d14 (S) | 82 | % | 26-130 | | 1 | 04/14/10 10:55 | 04/15/10 00:15 | 1718-51-0 | |
| Phenol-d6 (S) | 33 | % | 11-120 | | 1 | 04/14/10 10:55 | 04/15/10 00:15 | 13127-88-3 | |
| 2-Fluorophenol (S) | 52 | % | 20-120 | | 1 | 04/14/10 10:55 | 04/15/10 00:15 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 85 | % | 37-120 | | 1 | 04/14/10 10:55 | 04/15/10 00:15 | 118-79-6 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-12 (4" Line)** **Lab ID: 253480001** Collected: 04/08/10 06:15 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 22:55 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 22:55 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 22:55 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/12/10 22:55 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/12/10 22:55 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 22:55 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/12/10 22:55 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 22:55 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/12/10 22:55 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 22:55 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/12/10 22:55 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/12/10 22:55 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 22:55 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/12/10 22:55 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/12/10 22:55 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/12/10 22:55 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 22:55 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 22:55 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 22:55 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 22:55 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 22:55 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/12/10 22:55 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/12/10 22:55 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/12/10 22:55 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/12/10 22:55 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/12/10 22:55 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/12/10 22:55 | 108-10-1 | |
| Acetone | **1.9J** | ug/L | 5.0 | 0.75 | 1 | | 04/12/10 22:55 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 22:55 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 22:55 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/12/10 22:55 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 22:55 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/12/10 22:55 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/12/10 22:55 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 22:55 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/12/10 22:55 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 22:55 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/12/10 22:55 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 22:55 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 22:55 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 22:55 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/12/10 22:55 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/12/10 22:55 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 22:55 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/12/10 22:55 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 22:55 | 98-82-8 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-12 (4" Line)** **Lab ID: 253480001** Collected: 04/08/10 06:15 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 22:55 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/12/10 22:55 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 22:55 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/12/10 22:55 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 22:55 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/12/10 22:55 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 22:55 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/12/10 22:55 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/12/10 22:55 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/12/10 22:55 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/12/10 22:55 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/12/10 22:55 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/12/10 22:55 | 1330-20-7 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 22:55 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 22:55 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 22:55 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/12/10 22:55 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 22:55 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 22:55 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 22:55 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 22:55 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 95 | % | 80-120 | | 1 | | 04/12/10 22:55 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 80-122 | | 1 | | 04/12/10 22:55 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 100 | % | 80-124 | | 1 | | 04/12/10 22:55 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 80-123 | | 1 | | 04/12/10 22:55 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **<2000** | ug/L | 2000 | 2000 | 1 | | 04/16/10 15:30 | | H1 |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **1.2** | mg/L | 1.0 | 0.37 | 1 | | 04/19/10 18:00 | 7440-44-0 | |

**Sample: MH-X** **Lab ID: 253480002** Collected: 04/08/10 07:30 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.047 | 0.013 | 1 | 04/13/10 12:10 | 04/20/10 20:23 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.047 | 0.015 | 1 | 04/13/10 12:10 | 04/20/10 20:23 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.047 | 0.021 | 1 | 04/13/10 12:10 | 04/20/10 20:23 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.047 | 0.017 | 1 | 04/13/10 12:10 | 04/20/10 20:23 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0094** | ug/L | 0.047 | 0.0094 | 1 | 04/13/10 12:10 | 04/20/10 20:23 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.047** | ug/L | 0.047 | 0.047 | 1 | 04/13/10 12:10 | 04/20/10 20:23 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.026** | ug/L | 0.047 | 0.026 | 1 | 04/13/10 12:10 | 04/20/10 20:23 | 11096-82-5 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-X** **Lab ID: 253480002** Collected: 04/08/10 07:30 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1262 (Aroclor 1262) | **<0.0027** | ug/L | 0.047 | 0.0027 | 1 | 04/13/10 12:10 | 04/20/10 20:23 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.047 | 0.024 | 1 | 04/13/10 12:10 | 04/20/10 20:23 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 89 | % | 64-120 | | 1 | 04/13/10 12:10 | 04/20/10 20:23 | 877-09-8 | |
| Decachlorobiphenyl (S) | 98 | % | 44-120 | | 1 | 04/13/10 12:10 | 04/20/10 20:23 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<35.9** | ug/L | 77.7 | 35.9 | 1 | 04/15/10 11:25 | 04/16/10 16:57 | | |
| Motor Oil Range SG | **98.5J** | ug/L | 388 | 59.2 | 1 | 04/15/10 11:25 | 04/16/10 16:57 | 64742-65-0 | |
| n-Octacosane (S) SG | 119 | % | 50-150 | | 1 | 04/15/10 11:25 | 04/16/10 16:57 | 630-02-4 | |
| o-Terphenyl (S) SG | 110 | % | 50-150 | | 1 | 04/15/10 11:25 | 04/16/10 16:57 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **<13.4** | ug/L | 50.0 | 13.4 | 1 | | 04/12/10 21:06 | | |
| a,a,a-Trifluorotoluene (S) | 93 | % | 50-150 | | 1 | | 04/12/10 21:06 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 80 | % | 50-150 | | 1 | | 04/12/10 21:06 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.091J** | ug/L | 0.50 | 0.062 | 1 | 04/16/10 11:04 | 04/17/10 03:33 | 7440-38-2 | |
| Barium | **7.6** | ug/L | 0.30 | 0.043 | 1 | 04/16/10 11:04 | 04/17/10 03:33 | 7440-39-3 | B |
| Cadmium | **0.094** | ug/L | 0.080 | 0.020 | 1 | 04/16/10 11:04 | 04/17/10 03:33 | 7440-43-9 | |
| Chromium | **0.44J** | ug/L | 0.50 | 0.24 | 1 | 04/16/10 11:04 | 04/17/10 03:33 | 7440-47-3 | |
| Copper | **2.0** | ug/L | 0.50 | 0.20 | 1 | 04/16/10 11:04 | 04/17/10 03:33 | 7440-50-8 | |
| Lead | **0.82** | ug/L | 0.10 | 0.020 | 1 | 04/16/10 11:04 | 04/17/10 03:33 | 7439-92-1 | B |
| Manganese | **20.2** | ug/L | 0.50 | 0.050 | 1 | 04/16/10 11:04 | 04/17/10 03:33 | 7439-96-5 | B |
| Selenium | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 04/16/10 11:04 | 04/17/10 03:33 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 04/16/10 11:04 | 04/17/10 03:33 | 7440-22-4 | |
| Zinc | **60.5** | ug/L | 5.0 | 1.3 | 1 | 04/16/10 11:04 | 04/17/10 03:33 | 7440-66-6 | |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **<0.062** | ug/L | 0.50 | 0.062 | 1 | 04/16/10 11:36 | 04/19/10 17:03 | 7440-38-2 | |
| Barium, Dissolved | **4.5** | ug/L | 0.30 | 0.043 | 1 | 04/16/10 11:36 | 04/19/10 17:03 | 7440-39-3 | |
| Cadmium, Dissolved | **0.022J** | ug/L | 0.080 | 0.020 | 1 | 04/16/10 11:36 | 04/19/10 17:03 | 7440-43-9 | |
| Chromium, Dissolved | **<0.24** | ug/L | 0.50 | 0.24 | 1 | 04/16/10 11:36 | 04/19/10 17:03 | 7440-47-3 | |
| Copper, Dissolved | **1.0** | ug/L | 0.50 | 0.20 | 1 | 04/16/10 11:36 | 04/20/10 11:52 | 7440-50-8 | |
| Lead, Dissolved | **0.026J** | ug/L | 0.10 | 0.020 | 1 | 04/16/10 11:36 | 04/19/10 17:03 | 7439-92-1 | |
| Manganese, Dissolved | **13.8** | ug/L | 0.50 | 0.050 | 1 | 04/16/10 11:36 | 04/19/10 17:03 | 7439-96-5 | |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 04/16/10 11:36 | 04/19/10 17:03 | 7782-49-2 | |
| Silver, Dissolved | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 04/16/10 11:36 | 04/19/10 17:03 | 7440-22-4 | |
| Zinc, Dissolved | **52.2** | ug/L | 5.0 | 1.3 | 1 | 04/16/10 11:36 | 04/19/10 17:03 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 04/14/10 11:14 | 04/14/10 15:46 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 04/14/10 11:14 | 04/14/10 16:13 | 7439-97-6 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-X** **Lab ID: 253480002** Collected: 04/08/10 07:30 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **<0.0060** | ug/L | 0.014 | 0.0060 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 90-12-0 | |
| 2-Chloronaphthalene | **<0.0013** | ug/L | 0.014 | 0.0013 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 91-58-7 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 91-57-6 | |
| Acenaphthene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 83-32-9 | |
| Acenaphthylene | **0.0034J** | ug/L | 0.014 | 0.00067 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 208-96-8 | |
| Anthracene | **<0.0012** | ug/L | 0.014 | 0.0012 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 56-55-3 | B- |
| Benzo(a)pyrene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 50-32-8 | |
| Benzo(b)fluoranthene | **<0.0019** | ug/L | 0.014 | 0.0019 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 205-99-2 | |
| Benzo(g,h,i)perylene | **<0.0016** | ug/L | 0.014 | 0.0016 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 191-24-2 | |
| Benzo(k)fluoranthene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 207-08-9 | B- |
| Chrysene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 53-70-3 | |
| Fluoranthene | **0.0058J** | ug/L | 0.014 | 0.0018 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 206-44-0 | |
| Fluorene | **<0.0036** | ug/L | 0.014 | 0.0036 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 193-39-5 | |
| Naphthalene | **0.012J** | ug/L | 0.014 | 0.0014 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 91-20-3 | |
| Phenanthrene | **0.011J** | ug/L | 0.014 | 0.0036 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 85-01-8 | |
| Pyrene | **0.0055J** | ug/L | 0.014 | 0.0019 | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 129-00-0 | B |
| 2-Fluorobiphenyl (S) | 68 | % | 40-106 | | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 321-60-8 | |
| Terphenyl-d14 (S) | 76 | % | 55-146 | | 1 | 04/13/10 12:10 | 04/20/10 21:40 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **0.86J** | ug/L | 4.7 | 0.43 | 1 | 04/14/10 10:55 | 04/15/10 00:38 | 85-68-7 | |
| Di-n-butylphthalate | **<0.44** | ug/L | 4.7 | 0.44 | 1 | 04/14/10 10:55 | 04/15/10 00:38 | 84-74-2 | |
| Di-n-octylphthalate | **<0.47** | ug/L | 4.7 | 0.47 | 1 | 04/14/10 10:55 | 04/15/10 00:38 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.7 | 0.41 | 1 | 04/14/10 10:55 | 04/15/10 00:38 | 84-66-2 | |
| Dimethylphthalate | **<0.26** | ug/L | 4.7 | 0.26 | 1 | 04/14/10 10:55 | 04/15/10 00:38 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.94** | ug/L | 4.7 | 0.94 | 1 | 04/14/10 10:55 | 04/15/10 00:38 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 68 | % | 38-121 | | 1 | 04/14/10 10:55 | 04/15/10 00:38 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 61 | % | 40-110 | | 1 | 04/14/10 10:55 | 04/15/10 00:38 | 321-60-8 | |
| Terphenyl-d14 (S) | 74 | % | 26-130 | | 1 | 04/14/10 10:55 | 04/15/10 00:38 | 1718-51-0 | |
| Phenol-d6 (S) | 27 | % | 11-120 | | 1 | 04/14/10 10:55 | 04/15/10 00:38 | 13127-88-3 | |
| 2-Fluorophenol (S) | 41 | % | 20-120 | | 1 | 04/14/10 10:55 | 04/15/10 00:38 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 73 | % | 37-120 | | 1 | 04/14/10 10:55 | 04/15/10 00:38 | 118-79-6 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 23:17 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 23:17 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 23:17 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/12/10 23:17 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/12/10 23:17 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 23:17 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/12/10 23:17 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 23:17 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/12/10 23:17 | 96-18-4 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-X** **Lab ID: 253480002** Collected: 04/08/10 07:30 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 23:17 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/12/10 23:17 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/12/10 23:17 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 23:17 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/12/10 23:17 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/12/10 23:17 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/12/10 23:17 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:17 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:17 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:17 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 23:17 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 23:17 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/12/10 23:17 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/12/10 23:17 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/12/10 23:17 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/12/10 23:17 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/12/10 23:17 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/12/10 23:17 | 108-10-1 | |
| Acetone | **3.5J** | ug/L | 5.0 | 0.75 | 1 | | 04/12/10 23:17 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 23:17 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:17 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/12/10 23:17 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 23:17 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/12/10 23:17 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/12/10 23:17 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:17 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/12/10 23:17 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 23:17 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/12/10 23:17 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 23:17 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 23:17 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 23:17 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/12/10 23:17 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/12/10 23:17 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 23:17 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/12/10 23:17 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 23:17 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:17 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/12/10 23:17 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 23:17 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/12/10 23:17 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 23:17 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/12/10 23:17 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 23:17 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/12/10 23:17 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/12/10 23:17 | 75-01-4 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-X** **Lab ID: 253480002** Collected: 04/08/10 07:30 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/12/10 23:17 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/12/10 23:17 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/12/10 23:17 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/12/10 23:17 | 1330-20-7 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 23:17 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:17 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 23:17 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/12/10 23:17 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 23:17 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 23:17 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 23:17 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:17 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 95 | % | 80-120 | | 1 | | 04/12/10 23:17 | 460-00-4 | |
| Dibromofluoromethane (S) | 102 | % | 80-122 | | 1 | | 04/12/10 23:17 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 99 | % | 80-124 | | 1 | | 04/12/10 23:17 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 80-123 | | 1 | | 04/12/10 23:17 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **<2000** | ug/L | 2000 | 2000 | 1 | | 04/16/10 15:30 | | H1 |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **1.4** | mg/L | 1.0 | 0.37 | 1 | | 04/19/10 18:00 | 7440-44-0 | |

**Sample: MH-12 (12")** **Lab ID: 253480003** Collected: 04/08/10 08:00 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.014** | ug/L | 0.049 | 0.014 | 1 | 04/13/10 12:10 | 04/20/10 21:13 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.016** | ug/L | 0.049 | 0.016 | 1 | 04/13/10 12:10 | 04/20/10 21:13 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.022** | ug/L | 0.049 | 0.022 | 1 | 04/13/10 12:10 | 04/20/10 21:13 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.018** | ug/L | 0.049 | 0.018 | 1 | 04/13/10 12:10 | 04/20/10 21:13 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0098** | ug/L | 0.049 | 0.0098 | 1 | 04/13/10 12:10 | 04/20/10 21:13 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.049** | ug/L | 0.049 | 0.049 | 1 | 04/13/10 12:10 | 04/21/10 11:05 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.027** | ug/L | 0.049 | 0.027 | 1 | 04/13/10 12:10 | 04/20/10 21:13 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0028** | ug/L | 0.049 | 0.0028 | 1 | 04/13/10 12:10 | 04/20/10 21:13 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.025** | ug/L | 0.049 | 0.025 | 1 | 04/13/10 12:10 | 04/20/10 21:13 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 88 | % | 64-120 | | 1 | 04/13/10 12:10 | 04/20/10 21:13 | 877-09-8 | |
| Decachlorobiphenyl (S) | 96 | % | 44-120 | | 1 | 04/13/10 12:10 | 04/20/10 21:13 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<36.3** | ug/L | 78.4 | 36.3 | 1 | 04/15/10 11:25 | 04/16/10 17:13 | | |
| Motor Oil Range SG | **117J** | ug/L | 392 | 59.8 | 1 | 04/15/10 11:25 | 04/16/10 17:13 | 64742-65-0 | |
| n-Octacosane (S) SG | 109 | % | 50-150 | | 1 | 04/15/10 11:25 | 04/16/10 17:13 | 630-02-4 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-12 (12")** **Lab ID: 253480003** Collected: 04/08/10 08:00 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| o-Terphenyl (S) SG | 102 | % | 50-150 | | 1 | 04/15/10 11:25 | 04/16/10 17:13 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **17.0J** | ug/L | 50.0 | 13.4 | 1 | | 04/12/10 21:30 | | |
| a,a,a-Trifluorotoluene (S) | 96 | % | 50-150 | | 1 | | 04/12/10 21:30 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 88 | % | 50-150 | | 1 | | 04/12/10 21:30 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.34J** | ug/L | 0.50 | 0.062 | 1 | 04/16/10 11:04 | 04/17/10 03:37 | 7440-38-2 | |
| Barium | **11.1** | ug/L | 0.30 | 0.043 | 1 | 04/16/10 11:04 | 04/17/10 03:37 | 7440-39-3 | B |
| Cadmium | **0.061J** | ug/L | 0.080 | 0.020 | 1 | 04/16/10 11:04 | 04/17/10 03:37 | 7440-43-9 | |
| Chromium | **0.49J** | ug/L | 0.50 | 0.24 | 1 | 04/16/10 11:04 | 04/17/10 03:37 | 7440-47-3 | |
| Copper | **2.7** | ug/L | 0.50 | 0.20 | 1 | 04/16/10 11:04 | 04/17/10 03:37 | 7440-50-8 | |
| Lead | **1.8** | ug/L | 0.10 | 0.020 | 1 | 04/16/10 11:04 | 04/17/10 03:37 | 7439-92-1 | B |
| Manganese | **15.0** | ug/L | 0.50 | 0.050 | 1 | 04/16/10 11:04 | 04/17/10 03:37 | 7439-96-5 | B |
| Selenium | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 04/16/10 11:04 | 04/17/10 03:37 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 04/16/10 11:04 | 04/17/10 03:37 | 7440-22-4 | |
| Zinc | **38.7** | ug/L | 5.0 | 1.3 | 1 | 04/16/10 11:04 | 04/17/10 03:37 | 7440-66-6 | |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **0.17J** | ug/L | 0.50 | 0.062 | 1 | 04/16/10 11:36 | 04/19/10 17:07 | 7440-38-2 | |
| Barium, Dissolved | **7.6** | ug/L | 0.30 | 0.043 | 1 | 04/16/10 11:36 | 04/19/10 17:07 | 7440-39-3 | |
| Cadmium, Dissolved | **<0.020** | ug/L | 0.080 | 0.020 | 1 | 04/16/10 11:36 | 04/19/10 17:07 | 7440-43-9 | |
| Chromium, Dissolved | **<0.24** | ug/L | 0.50 | 0.24 | 1 | 04/16/10 11:36 | 04/19/10 17:07 | 7440-47-3 | |
| Copper, Dissolved | **4.0** | ug/L | 0.50 | 0.20 | 1 | 04/16/10 11:36 | 04/20/10 11:56 | 7440-50-8 | |
| Lead, Dissolved | **<0.020** | ug/L | 0.10 | 0.020 | 1 | 04/16/10 11:36 | 04/19/10 17:07 | 7439-92-1 | |
| Manganese, Dissolved | **6.7** | ug/L | 0.50 | 0.050 | 1 | 04/16/10 11:36 | 04/19/10 17:07 | 7439-96-5 | |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 04/16/10 11:36 | 04/19/10 17:07 | 7782-49-2 | |
| Silver, Dissolved | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 04/16/10 11:36 | 04/19/10 17:07 | 7440-22-4 | |
| Zinc, Dissolved | **27.1** | ug/L | 5.0 | 1.3 | 1 | 04/16/10 11:36 | 04/19/10 17:07 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 04/14/10 11:14 | 04/14/10 15:48 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 04/14/10 11:14 | 04/14/10 16:15 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **0.020** | ug/L | 0.015 | 0.0063 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 90-12-0 | |
| 2-Chloronaphthalene | **<0.0014** | ug/L | 0.015 | 0.0014 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 91-58-7 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.015 | 0.012 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 91-57-6 | |
| Acenaphthene | **<0.00070** | ug/L | 0.015 | 0.00070 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 83-32-9 | |
| Acenaphthylene | **<0.00071** | ug/L | 0.015 | 0.00071 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 208-96-8 | |
| Anthracene | **<0.0013** | ug/L | 0.015 | 0.0013 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0018** | ug/L | 0.015 | 0.0018 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 56-55-3 | B- |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-12 (12")** **Lab ID: 253480003** Collected: 04/08/10 08:00 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| Benzo(a)pyrene | **<0.00070** | ug/L | 0.015 | 0.00070 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 50-32-8 | |
| Benzo(b)fluoranthene | **<0.0020** | ug/L | 0.015 | 0.0020 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 205-99-2 | |
| Benzo(g,h,i)perylene | **0.0077J** | ug/L | 0.015 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 191-24-2 | B |
| Benzo(k)fluoranthene | **<0.00070** | ug/L | 0.015 | 0.00070 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 207-08-9 | B- |
| Chrysene | **<0.0018** | ug/L | 0.015 | 0.0018 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.0018** | ug/L | 0.015 | 0.0018 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 53-70-3 | |
| Fluoranthene | **0.010J** | ug/L | 0.015 | 0.0019 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 206-44-0 | |
| Fluorene | **0.0088J** | ug/L | 0.015 | 0.0038 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0015** | ug/L | 0.015 | 0.0015 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 193-39-5 | |
| Naphthalene | **0.0078J** | ug/L | 0.015 | 0.0014 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 91-20-3 | |
| Phenanthrene | **0.015** | ug/L | 0.015 | 0.0038 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 85-01-8 | |
| Pyrene | **0.022** | ug/L | 0.015 | 0.0020 | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 129-00-0 | B |
| 2-Fluorobiphenyl (S) | 70 | % | 40-106 | | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 321-60-8 | |
| Terphenyl-d14 (S) | 77 | % | 55-146 | | 1 | 04/13/10 12:10 | 04/20/10 21:56 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **<0.45** | ug/L | 4.9 | 0.45 | 1 | 04/14/10 10:55 | 04/15/10 01:01 | 85-68-7 | |
| Di-n-butylphthalate | **<0.46** | ug/L | 4.9 | 0.46 | 1 | 04/14/10 10:55 | 04/15/10 01:01 | 84-74-2 | |
| Di-n-octylphthalate | **<0.49** | ug/L | 4.9 | 0.49 | 1 | 04/14/10 10:55 | 04/15/10 01:01 | 117-84-0 | |
| Diethylphthalate | **<0.42** | ug/L | 4.9 | 0.42 | 1 | 04/14/10 10:55 | 04/15/10 01:01 | 84-66-2 | |
| Dimethylphthalate | **<0.27** | ug/L | 4.9 | 0.27 | 1 | 04/14/10 10:55 | 04/15/10 01:01 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.97** | ug/L | 4.9 | 0.97 | 1 | 04/14/10 10:55 | 04/15/10 01:01 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 72 | % | 38-121 | | 1 | 04/14/10 10:55 | 04/15/10 01:01 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 68 | % | 40-110 | | 1 | 04/14/10 10:55 | 04/15/10 01:01 | 321-60-8 | |
| Terphenyl-d14 (S) | 70 | % | 26-130 | | 1 | 04/14/10 10:55 | 04/15/10 01:01 | 1718-51-0 | |
| Phenol-d6 (S) | 30 | % | 11-120 | | 1 | 04/14/10 10:55 | 04/15/10 01:01 | 13127-88-3 | |
| 2-Fluorophenol (S) | 46 | % | 20-120 | | 1 | 04/14/10 10:55 | 04/15/10 01:01 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 75 | % | 37-120 | | 1 | 04/14/10 10:55 | 04/15/10 01:01 | 118-79-6 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 23:40 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 23:40 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 23:40 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/12/10 23:40 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/12/10 23:40 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 23:40 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/12/10 23:40 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 23:40 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/12/10 23:40 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 23:40 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/12/10 23:40 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/12/10 23:40 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 23:40 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/12/10 23:40 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/12/10 23:40 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/12/10 23:40 | 540-59-0 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-12 (12")** **Lab ID: 253480003** Collected: 04/08/10 08:00 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:40 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:40 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:40 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 23:40 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 23:40 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/12/10 23:40 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/12/10 23:40 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/12/10 23:40 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/12/10 23:40 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/12/10 23:40 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/12/10 23:40 | 108-10-1 | |
| Acetone | **1.4J** | ug/L | 5.0 | 0.75 | 1 | | 04/12/10 23:40 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 23:40 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:40 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/12/10 23:40 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 23:40 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/12/10 23:40 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/12/10 23:40 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:40 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/12/10 23:40 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 23:40 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/12/10 23:40 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 23:40 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 23:40 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 23:40 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/12/10 23:40 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/12/10 23:40 | 75-71-8 | |
| Ethylbenzene | **0.87J** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 23:40 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/12/10 23:40 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 23:40 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:40 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/12/10 23:40 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 23:40 | 91-20-3 | |
| Styrene | **0.16J** | ug/L | 1.0 | 0.074 | 1 | | 04/12/10 23:40 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 23:40 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/12/10 23:40 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 23:40 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/12/10 23:40 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/12/10 23:40 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/12/10 23:40 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/12/10 23:40 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/12/10 23:40 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/12/10 23:40 | 1330-20-7 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 23:40 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:40 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 23:40 | 95-47-6 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-12 (12")** **Lab ID: 253480003** Collected: 04/08/10 08:00 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/12/10 23:40 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 23:40 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 23:40 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 23:40 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 23:40 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 95 | % | 80-120 | | 1 | | 04/12/10 23:40 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 80-122 | | 1 | | 04/12/10 23:40 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 101 | % | 80-124 | | 1 | | 04/12/10 23:40 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 80-123 | | 1 | | 04/12/10 23:40 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **6000** | ug/L | 2000 | 2000 | 1 | | 04/16/10 15:30 | | H1 |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **1.4** | mg/L | 1.0 | 0.37 | 1 | | 04/19/10 18:00 | 7440-44-0 | |

**Sample: MH-12 (6")** **Lab ID: 253480004** Collected: 04/08/10 08:30 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.014** | ug/L | 0.050 | 0.014 | 1 | 04/13/10 12:10 | 04/20/10 22:34 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.016** | ug/L | 0.050 | 0.016 | 1 | 04/13/10 12:10 | 04/20/10 22:34 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.022** | ug/L | 0.050 | 0.022 | 1 | 04/13/10 12:10 | 04/20/10 22:34 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.018** | ug/L | 0.050 | 0.018 | 1 | 04/13/10 12:10 | 04/20/10 22:34 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0099** | ug/L | 0.050 | 0.0099 | 1 | 04/13/10 12:10 | 04/20/10 22:34 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **0.10** | ug/L | 0.050 | 0.050 | 1 | 04/13/10 12:10 | 04/21/10 11:45 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.028** | ug/L | 0.050 | 0.028 | 1 | 04/13/10 12:10 | 04/20/10 22:34 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0029** | ug/L | 0.050 | 0.0029 | 1 | 04/13/10 12:10 | 04/20/10 22:34 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.025** | ug/L | 0.050 | 0.025 | 1 | 04/13/10 12:10 | 04/20/10 22:34 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 90 | % | 64-120 | | 1 | 04/13/10 12:10 | 04/20/10 22:34 | 877-09-8 | |
| Decachlorobiphenyl (S) | 100 | % | 44-120 | | 1 | 04/13/10 12:10 | 04/20/10 22:34 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<35.6** | ug/L | 76.9 | 35.6 | 1 | 04/15/10 11:25 | 04/16/10 17:29 | | |
| Motor Oil Range SG | **234J** | ug/L | 385 | 58.7 | 1 | 04/15/10 11:25 | 04/16/10 17:29 | 64742-65-0 | |
| n-Octacosane (S) SG | 108 | % | 50-150 | | 1 | 04/15/10 11:25 | 04/16/10 17:29 | 630-02-4 | |
| o-Terphenyl (S) SG | 101 | % | 50-150 | | 1 | 04/15/10 11:25 | 04/16/10 17:29 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **<13.4** | ug/L | 50.0 | 13.4 | 1 | | 04/12/10 22:19 | | |
| a,a,a-Trifluorotoluene (S) | 96 | % | 50-150 | | 1 | | 04/12/10 22:19 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 92 | % | 50-150 | | 1 | | 04/12/10 22:19 | 460-00-4 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-12 (6")** **Lab ID: 253480004** Collected: 04/08/10 08:30 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.46J** | ug/L | 0.50 | 0.062 | 1 | 04/16/10 11:04 | 04/17/10 03:41 | 7440-38-2 | |
| Barium | **57.3** | ug/L | 0.30 | 0.043 | 1 | 04/16/10 11:04 | 04/17/10 03:41 | 7440-39-3 | B |
| Cadmium | **0.069J** | ug/L | 0.080 | 0.020 | 1 | 04/16/10 11:04 | 04/17/10 03:41 | 7440-43-9 | |
| Chromium | **1.1** | ug/L | 0.50 | 0.24 | 1 | 04/16/10 11:04 | 04/17/10 03:41 | 7440-47-3 | |
| Copper | **5.9** | ug/L | 0.50 | 0.20 | 1 | 04/16/10 11:04 | 04/17/10 03:41 | 7440-50-8 | |
| Lead | **1.7** | ug/L | 0.10 | 0.020 | 1 | 04/16/10 11:04 | 04/17/10 03:41 | 7439-92-1 | B |
| Manganese | **12.7** | ug/L | 0.50 | 0.050 | 1 | 04/16/10 11:04 | 04/17/10 03:41 | 7439-96-5 | B |
| Selenium | **0.12J** | ug/L | 0.50 | 0.10 | 1 | 04/16/10 11:04 | 04/17/10 03:41 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 04/16/10 11:04 | 04/17/10 03:41 | 7440-22-4 | |
| Zinc | **44.2** | ug/L | 5.0 | 1.3 | 1 | 04/16/10 11:04 | 04/17/10 03:41 | 7440-66-6 | |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **0.38J** | ug/L | 0.50 | 0.062 | 1 | 04/16/10 11:36 | 04/19/10 17:12 | 7440-38-2 | |
| Barium, Dissolved | **51.5** | ug/L | 0.30 | 0.043 | 1 | 04/16/10 11:36 | 04/19/10 17:12 | 7440-39-3 | |
| Cadmium, Dissolved | **0.033J** | ug/L | 0.080 | 0.020 | 1 | 04/16/10 11:36 | 04/19/10 17:12 | 7440-43-9 | |
| Chromium, Dissolved | **0.59** | ug/L | 0.50 | 0.24 | 1 | 04/16/10 11:36 | 04/19/10 17:12 | 7440-47-3 | |
| Copper, Dissolved | **4.3** | ug/L | 0.50 | 0.20 | 1 | 04/16/10 11:36 | 04/20/10 12:00 | 7440-50-8 | |
| Lead, Dissolved | **0.021J** | ug/L | 0.10 | 0.020 | 1 | 04/16/10 11:36 | 04/19/10 17:12 | 7439-92-1 | |
| Manganese, Dissolved | **3.9** | ug/L | 0.50 | 0.050 | 1 | 04/16/10 11:36 | 04/19/10 17:12 | 7439-96-5 | |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 04/16/10 11:36 | 04/19/10 17:12 | 7782-49-2 | |
| Silver, Dissolved | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 04/16/10 11:36 | 04/19/10 17:12 | 7440-22-4 | |
| Zinc, Dissolved | **43.3** | ug/L | 5.0 | 1.3 | 1 | 04/16/10 11:36 | 04/19/10 17:12 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 04/14/10 11:14 | 04/14/10 15:50 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 04/14/10 11:14 | 04/14/10 16:17 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **<0.0061** | ug/L | 0.014 | 0.0061 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 90-12-0 | |
| 2-Chloronaphthalene | **<0.0013** | ug/L | 0.014 | 0.0013 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 91-58-7 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 91-57-6 | |
| Acenaphthene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 83-32-9 | |
| Acenaphthylene | **<0.00068** | ug/L | 0.014 | 0.00068 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 208-96-8 | |
| Anthracene | **<0.0012** | ug/L | 0.014 | 0.0012 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 56-55-3 | B- |
| Benzo(a)pyrene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 50-32-8 | |
| Benzo(b)fluoranthene | **0.0064J** | ug/L | 0.014 | 0.0019 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 205-99-2 | B |
| Benzo(g,h,i)perylene | **0.0078J** | ug/L | 0.014 | 0.0016 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 191-24-2 | B |
| Benzo(k)fluoranthene | **0.0037J** | ug/L | 0.014 | 0.00067 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 207-08-9 | B |
| Chrysene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 53-70-3 | |
| Fluoranthene | **0.010J** | ug/L | 0.014 | 0.0018 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 206-44-0 | |
| Fluorene | **<0.0037** | ug/L | 0.014 | 0.0037 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 86-73-7 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-12 (6")** **Lab ID: 253480004** Collected: 04/08/10 08:30 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 193-39-5 | |
| Naphthalene | **0.0049J** | ug/L | 0.014 | 0.0014 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 91-20-3 | |
| Phenanthrene | **0.0081J** | ug/L | 0.014 | 0.0037 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 85-01-8 | |
| Pyrene | **0.017** | ug/L | 0.014 | 0.0019 | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 129-00-0 | B |
| 2-Fluorobiphenyl (S) | 84 | % | 40-106 | | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 321-60-8 | |
| Terphenyl-d14 (S) | 84 | % | 55-146 | | 1 | 04/13/10 12:10 | 04/20/10 22:13 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **<0.44** | ug/L | 4.8 | 0.44 | 1 | 04/14/10 10:55 | 04/15/10 01:24 | 85-68-7 | |
| Di-n-butylphthalate | **<0.45** | ug/L | 4.8 | 0.45 | 1 | 04/14/10 10:55 | 04/15/10 01:24 | 84-74-2 | |
| Di-n-octylphthalate | **<0.48** | ug/L | 4.8 | 0.48 | 1 | 04/14/10 10:55 | 04/15/10 01:24 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.8 | 0.41 | 1 | 04/14/10 10:55 | 04/15/10 01:24 | 84-66-2 | |
| Dimethylphthalate | **<0.27** | ug/L | 4.8 | 0.27 | 1 | 04/14/10 10:55 | 04/15/10 01:24 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **1.3J** | ug/L | 4.8 | 0.96 | 1 | 04/14/10 10:55 | 04/15/10 01:24 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 75 | % | 38-121 | | 1 | 04/14/10 10:55 | 04/15/10 01:24 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 68 | % | 40-110 | | 1 | 04/14/10 10:55 | 04/15/10 01:24 | 321-60-8 | |
| Terphenyl-d14 (S) | 79 | % | 26-130 | | 1 | 04/14/10 10:55 | 04/15/10 01:24 | 1718-51-0 | |
| Phenol-d6 (S) | 31 | % | 11-120 | | 1 | 04/14/10 10:55 | 04/15/10 01:24 | 13127-88-3 | |
| 2-Fluorophenol (S) | 47 | % | 20-120 | | 1 | 04/14/10 10:55 | 04/15/10 01:24 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 85 | % | 37-120 | | 1 | 04/14/10 10:55 | 04/15/10 01:24 | 118-79-6 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 00:02 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:02 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 00:02 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/13/10 00:02 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/13/10 00:02 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 00:02 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/13/10 00:02 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 00:02 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/13/10 00:02 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 00:02 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/13/10 00:02 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/13/10 00:02 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:02 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/13/10 00:02 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/13/10 00:02 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/13/10 00:02 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:02 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:02 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:02 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 00:02 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:02 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/13/10 00:02 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/13/10 00:02 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/13/10 00:02 | 95-49-8 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-12 (6")** **Lab ID: 253480004** Collected: 04/08/10 08:30 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/13/10 00:02 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/13/10 00:02 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **1.3J** | ug/L | 5.0 | 0.32 | 1 | | 04/13/10 00:02 | 108-10-1 | |
| Acetone | **2.4J** | ug/L | 5.0 | 0.75 | 1 | | 04/13/10 00:02 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 00:02 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:02 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/13/10 00:02 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 00:02 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/13/10 00:02 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/13/10 00:02 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:02 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/13/10 00:02 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 00:02 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/13/10 00:02 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 00:02 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:02 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 00:02 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/13/10 00:02 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/13/10 00:02 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:02 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/13/10 00:02 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 00:02 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:02 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/13/10 00:02 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 00:02 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/13/10 00:02 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 00:02 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/13/10 00:02 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 00:02 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/13/10 00:02 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/13/10 00:02 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/13/10 00:02 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/13/10 00:02 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/13/10 00:02 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/13/10 00:02 | 1330-20-7 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 00:02 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:02 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 00:02 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/13/10 00:02 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 00:02 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 00:02 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 00:02 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:02 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 94 | % | 80-120 | | 1 | | 04/13/10 00:02 | 460-00-4 | |
| Dibromofluoromethane (S) | 99 | % | 80-122 | | 1 | | 04/13/10 00:02 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 101 | % | 80-124 | | 1 | | 04/13/10 00:02 | 17060-07-0 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-12 (6")** **Lab ID: 253480004** Collected: 04/08/10 08:30 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Toluene-d8 (S) | 99 | % | 80-123 | | 1 | | 04/13/10 00:02 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **8000** | ug/L | 2000 | 2000 | 1 | | 04/16/10 15:30 | | H1 |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **2.5** | mg/L | 1.0 | 0.37 | 1 | | 04/19/10 18:00 | 7440-44-0 | |

**Sample: MH-3** **Lab ID: 253480005** Collected: 04/08/10 10:30 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.047 | 0.013 | 1 | 04/13/10 12:10 | 04/20/10 23:24 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.047 | 0.015 | 1 | 04/13/10 12:10 | 04/20/10 23:24 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.047 | 0.021 | 1 | 04/13/10 12:10 | 04/20/10 23:24 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.047 | 0.017 | 1 | 04/13/10 12:10 | 04/20/10 23:24 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0095** | ug/L | 0.047 | 0.0095 | 1 | 04/13/10 12:10 | 04/20/10 23:24 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.047** | ug/L | 0.047 | 0.047 | 1 | 04/13/10 12:10 | 04/20/10 23:24 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.027** | ug/L | 0.047 | 0.027 | 1 | 04/13/10 12:10 | 04/20/10 23:24 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0027** | ug/L | 0.047 | 0.0027 | 1 | 04/13/10 12:10 | 04/20/10 23:24 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.047 | 0.024 | 1 | 04/13/10 12:10 | 04/20/10 23:24 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 97 | % | 64-120 | | 1 | 04/13/10 12:10 | 04/20/10 23:24 | 877-09-8 | |
| Decachlorobiphenyl (S) | 100 | % | 44-120 | | 1 | 04/13/10 12:10 | 04/20/10 23:24 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<35.2** | ug/L | 76.2 | 35.2 | 1 | 04/15/10 11:25 | 04/16/10 17:45 | | |
| Motor Oil Range SG | **88.5J** | ug/L | 381 | 58.1 | 1 | 04/15/10 11:25 | 04/16/10 17:45 | 64742-65-0 | |
| n-Octacosane (S) SG | 115 | % | 50-150 | | 1 | 04/15/10 11:25 | 04/16/10 17:45 | 630-02-4 | |
| o-Terphenyl (S) SG | 109 | % | 50-150 | | 1 | 04/15/10 11:25 | 04/16/10 17:45 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **<13.4** | ug/L | 50.0 | 13.4 | 1 | | 04/12/10 23:08 | | |
| a,a,a-Trifluorotoluene (S) | 98 | % | 50-150 | | 1 | | 04/12/10 23:08 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 94 | % | 50-150 | | 1 | | 04/12/10 23:08 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.68** | ug/L | 0.50 | 0.062 | 1 | 04/16/10 11:04 | 04/17/10 03:58 | 7440-38-2 | |
| Barium | **4.0** | ug/L | 0.30 | 0.043 | 1 | 04/16/10 11:04 | 04/17/10 03:58 | 7440-39-3 | B |
| Cadmium | **0.029J** | ug/L | 0.080 | 0.020 | 1 | 04/16/10 11:04 | 04/17/10 03:58 | 7440-43-9 | |
| Chromium | **0.68** | ug/L | 0.50 | 0.24 | 1 | 04/16/10 11:04 | 04/17/10 03:58 | 7440-47-3 | |
| Copper | **3.7** | ug/L | 0.50 | 0.20 | 1 | 04/16/10 11:04 | 04/17/10 03:58 | 7440-50-8 | |
| Lead | **2.0** | ug/L | 0.10 | 0.020 | 1 | 04/16/10 11:04 | 04/17/10 03:58 | 7439-92-1 | B |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-3** **Lab ID: 253480005** Collected: 04/08/10 10:30 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Manganese | **4.3** | ug/L | 0.50 | 0.050 | 1 | 04/16/10 11:04 | 04/17/10 03:58 | 7439-96-5 | B |
| Selenium | **0.12J** | ug/L | 0.50 | 0.10 | 1 | 04/16/10 11:04 | 04/17/10 03:58 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 04/16/10 11:04 | 04/17/10 03:58 | 7440-22-4 | |
| Zinc | **28.9** | ug/L | 5.0 | 1.3 | 1 | 04/16/10 11:04 | 04/17/10 03:58 | 7440-66-6 | |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **0.57** | ug/L | 0.50 | 0.062 | 1 | 04/16/10 11:36 | 04/19/10 17:16 | 7440-38-2 | |
| Barium, Dissolved | **3.6** | ug/L | 0.30 | 0.043 | 1 | 04/16/10 11:36 | 04/19/10 17:16 | 7440-39-3 | |
| Cadmium, Dissolved | **<0.020** | ug/L | 0.080 | 0.020 | 1 | 04/16/10 11:36 | 04/19/10 17:16 | 7440-43-9 | |
| Chromium, Dissolved | **0.47J** | ug/L | 0.50 | 0.24 | 1 | 04/16/10 11:36 | 04/19/10 17:16 | 7440-47-3 | |
| Copper, Dissolved | **1.8** | ug/L | 0.50 | 0.20 | 1 | 04/16/10 11:36 | 04/20/10 12:05 | 7440-50-8 | |
| Lead, Dissolved | **0.023J** | ug/L | 0.10 | 0.020 | 1 | 04/16/10 11:36 | 04/19/10 17:16 | 7439-92-1 | |
| Manganese, Dissolved | **0.21J** | ug/L | 0.50 | 0.050 | 1 | 04/16/10 11:36 | 04/19/10 17:16 | 7439-96-5 | |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 04/16/10 11:36 | 04/19/10 17:16 | 7782-49-2 | |
| Silver, Dissolved | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 04/16/10 11:36 | 04/19/10 17:16 | 7440-22-4 | |
| Zinc, Dissolved | **3.5J** | ug/L | 5.0 | 1.3 | 1 | 04/16/10 11:36 | 04/19/10 17:16 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 04/14/10 11:14 | 04/14/10 15:52 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 04/14/10 11:14 | 04/14/10 16:20 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **<0.0060** | ug/L | 0.014 | 0.0060 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 90-12-0 | |
| 2-Chloronaphthalene | **<0.0013** | ug/L | 0.014 | 0.0013 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 91-58-7 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 91-57-6 | |
| Acenaphthene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 83-32-9 | |
| Acenaphthylene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 208-96-8 | |
| Anthracene | **<0.0012** | ug/L | 0.014 | 0.0012 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 56-55-3 | B- |
| Benzo(a)pyrene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 50-32-8 | |
| Benzo(b)fluoranthene | **<0.0019** | ug/L | 0.014 | 0.0019 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 205-99-2 | |
| Benzo(g,h,i)perylene | **<0.0016** | ug/L | 0.014 | 0.0016 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 191-24-2 | |
| Benzo(k)fluoranthene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 207-08-9 | B- |
| Chrysene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 53-70-3 | |
| Fluoranthene | **<0.0018** | ug/L | 0.014 | 0.0018 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 206-44-0 | |
| Fluorene | **<0.0036** | ug/L | 0.014 | 0.0036 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 193-39-5 | |
| Naphthalene | **0.0086J** | ug/L | 0.014 | 0.0014 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 91-20-3 | |
| Phenanthrene | **0.0064J** | ug/L | 0.014 | 0.0036 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 85-01-8 | |
| Pyrene | **0.0040J** | ug/L | 0.014 | 0.0019 | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 129-00-0 | B |
| 2-Fluorobiphenyl (S) | 60 | % | 40-106 | | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 321-60-8 | |
| Terphenyl-d14 (S) | 83 | % | 55-146 | | 1 | 04/13/10 12:10 | 04/20/10 22:29 | 1718-51-0 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-3** **Lab ID: 253480005** Collected: 04/08/10 10:30 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **<0.43** | ug/L | 4.7 | 0.43 | 1 | 04/14/10 10:55 | 04/15/10 01:47 | 85-68-7 | |
| Di-n-butylphthalate | **<0.44** | ug/L | 4.7 | 0.44 | 1 | 04/14/10 10:55 | 04/15/10 01:47 | 84-74-2 | |
| Di-n-octylphthalate | **<0.47** | ug/L | 4.7 | 0.47 | 1 | 04/14/10 10:55 | 04/15/10 01:47 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.7 | 0.41 | 1 | 04/14/10 10:55 | 04/15/10 01:47 | 84-66-2 | |
| Dimethylphthalate | **<0.26** | ug/L | 4.7 | 0.26 | 1 | 04/14/10 10:55 | 04/15/10 01:47 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.94** | ug/L | 4.7 | 0.94 | 1 | 04/14/10 10:55 | 04/15/10 01:47 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 64 | % | 38-121 | | 1 | 04/14/10 10:55 | 04/15/10 01:47 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 59 | % | 40-110 | | 1 | 04/14/10 10:55 | 04/15/10 01:47 | 321-60-8 | |
| Terphenyl-d14 (S) | 75 | % | 26-130 | | 1 | 04/14/10 10:55 | 04/15/10 01:47 | 1718-51-0 | |
| Phenol-d6 (S) | 26 | % | 11-120 | | 1 | 04/14/10 10:55 | 04/15/10 01:47 | 13127-88-3 | |
| 2-Fluorophenol (S) | 39 | % | 20-120 | | 1 | 04/14/10 10:55 | 04/15/10 01:47 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 77 | % | 37-120 | | 1 | 04/14/10 10:55 | 04/15/10 01:47 | 118-79-6 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 00:25 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:25 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 00:25 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/13/10 00:25 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/13/10 00:25 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 00:25 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/13/10 00:25 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 00:25 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/13/10 00:25 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 00:25 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/13/10 00:25 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/13/10 00:25 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:25 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/13/10 00:25 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/13/10 00:25 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/13/10 00:25 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:25 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:25 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:25 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 00:25 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:25 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/13/10 00:25 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/13/10 00:25 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/13/10 00:25 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/13/10 00:25 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/13/10 00:25 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/13/10 00:25 | 108-10-1 | |
| Acetone | **<0.75** | ug/L | 5.0 | 0.75 | 1 | | 04/13/10 00:25 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 00:25 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:25 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/13/10 00:25 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 00:25 | 75-27-4 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: MH-3** **Lab ID: 253480005** Collected: 04/08/10 10:30 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/13/10 00:25 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/13/10 00:25 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:25 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/13/10 00:25 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 00:25 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/13/10 00:25 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 00:25 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:25 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 00:25 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/13/10 00:25 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/13/10 00:25 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:25 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/13/10 00:25 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 00:25 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:25 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/13/10 00:25 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 00:25 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/13/10 00:25 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 00:25 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/13/10 00:25 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 00:25 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/13/10 00:25 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/13/10 00:25 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/13/10 00:25 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/13/10 00:25 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/13/10 00:25 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/13/10 00:25 | 1330-20-7 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 00:25 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:25 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 00:25 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/13/10 00:25 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 00:25 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 00:25 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 00:25 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:25 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 95 | % | 80-120 | | 1 | | 04/13/10 00:25 | 460-00-4 | |
| Dibromofluoromethane (S) | 102 | % | 80-122 | | 1 | | 04/13/10 00:25 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 101 | % | 80-124 | | 1 | | 04/13/10 00:25 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 80-123 | | 1 | | 04/13/10 00:25 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **2000** | ug/L | 2000 | 2000 | 1 | | 04/16/10 15:30 | | H1 |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **0.70J** | mg/L | 1.0 | 0.37 | 1 | | 04/19/10 18:00 | 7440-44-0 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: SEP-001** **Lab ID: 253480006** Collected: 04/08/10 11:00 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.048 | 0.013 | 1 | 04/13/10 12:10 | 04/21/10 00:04 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.048 | 0.015 | 1 | 04/13/10 12:10 | 04/21/10 00:04 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.048 | 0.021 | 1 | 04/13/10 12:10 | 04/21/10 00:04 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.048 | 0.017 | 1 | 04/13/10 12:10 | 04/21/10 00:04 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0095** | ug/L | 0.048 | 0.0095 | 1 | 04/13/10 12:10 | 04/21/10 00:04 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.048** | ug/L | 0.048 | 0.048 | 1 | 04/13/10 12:10 | 04/21/10 00:04 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.027** | ug/L | 0.048 | 0.027 | 1 | 04/13/10 12:10 | 04/21/10 00:04 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0028** | ug/L | 0.048 | 0.0028 | 1 | 04/13/10 12:10 | 04/21/10 00:04 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.048 | 0.024 | 1 | 04/13/10 12:10 | 04/21/10 00:04 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 100 | % | 64-120 | | 1 | 04/13/10 12:10 | 04/21/10 00:04 | 877-09-8 | |
| Decachlorobiphenyl (S) | 95 | % | 44-120 | | 1 | 04/13/10 12:10 | 04/21/10 00:04 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<35.1** | ug/L | 75.8 | 35.1 | 1 | 04/15/10 11:25 | 04/16/10 18:34 | | |
| Motor Oil Range SG | **99.4J** | ug/L | 379 | 57.8 | 1 | 04/15/10 11:25 | 04/16/10 18:34 | 64742-65-0 | |
| n-Octacosane (S) SG | 112 | % | 50-150 | | 1 | 04/15/10 11:25 | 04/16/10 18:34 | 630-02-4 | |
| o-Terphenyl (S) SG | 102 | % | 50-150 | | 1 | 04/15/10 11:25 | 04/16/10 18:34 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **18.8J** | ug/L | 50.0 | 13.4 | 1 | | 04/12/10 23:32 | | |
| a,a,a-Trifluorotoluene (S) | 93 | % | 50-150 | | 1 | | 04/12/10 23:32 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 81 | % | 50-150 | | 1 | | 04/12/10 23:32 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.26J** | ug/L | 0.50 | 0.062 | 1 | 04/16/10 11:04 | 04/17/10 04:02 | 7440-38-2 | |
| Barium | **5.0** | ug/L | 0.30 | 0.043 | 1 | 04/16/10 11:04 | 04/17/10 04:02 | 7440-39-3 | B |
| Cadmium | **0.11** | ug/L | 0.080 | 0.020 | 1 | 04/16/10 11:04 | 04/17/10 04:02 | 7440-43-9 | |
| Chromium | **0.81** | ug/L | 0.50 | 0.24 | 1 | 04/16/10 11:04 | 04/17/10 04:02 | 7440-47-3 | |
| Copper | **3.4** | ug/L | 0.50 | 0.20 | 1 | 04/16/10 11:04 | 04/17/10 04:02 | 7440-50-8 | |
| Lead | **2.4** | ug/L | 0.10 | 0.020 | 1 | 04/16/10 11:04 | 04/17/10 04:02 | 7439-92-1 | B |
| Manganese | **14.5** | ug/L | 0.50 | 0.050 | 1 | 04/16/10 11:04 | 04/17/10 04:02 | 7439-96-5 | B |
| Selenium | **0.11J** | ug/L | 0.50 | 0.10 | 1 | 04/16/10 11:04 | 04/17/10 04:02 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 04/16/10 11:04 | 04/17/10 04:02 | 7440-22-4 | |
| Zinc | **56.1** | ug/L | 5.0 | 1.3 | 1 | 04/16/10 11:04 | 04/17/10 04:02 | 7440-66-6 | |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **0.12J** | ug/L | 0.50 | 0.062 | 1 | 04/16/10 11:36 | 04/19/10 17:21 | 7440-38-2 | |
| Barium, Dissolved | **3.1** | ug/L | 0.30 | 0.043 | 1 | 04/16/10 11:36 | 04/19/10 17:21 | 7440-39-3 | |
| Cadmium, Dissolved | **<0.020** | ug/L | 0.080 | 0.020 | 1 | 04/16/10 11:36 | 04/19/10 17:21 | 7440-43-9 | |
| Chromium, Dissolved | **0.35J** | ug/L | 0.50 | 0.24 | 1 | 04/16/10 11:36 | 04/19/10 17:21 | 7440-47-3 | |
| Copper, Dissolved | **2.2** | ug/L | 0.50 | 0.20 | 1 | 04/16/10 11:36 | 04/20/10 12:18 | 7440-50-8 | |
| Lead, Dissolved | **<0.020** | ug/L | 0.10 | 0.020 | 1 | 04/16/10 11:36 | 04/19/10 17:21 | 7439-92-1 | |
| Manganese, Dissolved | **2.7** | ug/L | 0.50 | 0.050 | 1 | 04/16/10 11:36 | 04/19/10 17:21 | 7439-96-5 | |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 04/16/10 11:36 | 04/19/10 17:21 | 7782-49-2 | |
| Silver, Dissolved | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 04/16/10 11:36 | 04/19/10 17:21 | 7440-22-4 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: SEP-001** **Lab ID: 253480006** Collected: 04/08/10 11:00 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Zinc, Dissolved | **43.3** | ug/L | 5.0 | 1.3 | 1 | 04/16/10 11:36 | 04/19/10 17:21 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 04/14/10 11:14 | 04/14/10 15:54 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 04/14/10 11:14 | 04/14/10 16:22 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **<0.0059** | ug/L | 0.014 | 0.0059 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 90-12-0 | |
| 2-Chloronaphthalene | **<0.0013** | ug/L | 0.014 | 0.0013 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 91-58-7 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 91-57-6 | |
| Acenaphthene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 83-32-9 | |
| Acenaphthylene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 208-96-8 | |
| Anthracene | **<0.0012** | ug/L | 0.014 | 0.0012 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 56-55-3 | B- |
| Benzo(a)pyrene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 50-32-8 | |
| Benzo(b)fluoranthene | **<0.0019** | ug/L | 0.014 | 0.0019 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 205-99-2 | |
| Benzo(g,h,i)perylene | **<0.0016** | ug/L | 0.014 | 0.0016 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 191-24-2 | |
| Benzo(k)fluoranthene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 207-08-9 | B- |
| Chrysene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 53-70-3 | |
| Fluoranthene | **0.0049J** | ug/L | 0.014 | 0.0018 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 206-44-0 | |
| Fluorene | **0.0048J** | ug/L | 0.014 | 0.0036 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 193-39-5 | |
| Naphthalene | **0.0067J** | ug/L | 0.014 | 0.0013 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 91-20-3 | |
| Phenanthrene | **0.0068J** | ug/L | 0.014 | 0.0036 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 85-01-8 | |
| Pyrene | **0.0048J** | ug/L | 0.014 | 0.0019 | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 129-00-0 | B |
| 2-Fluorobiphenyl (S) | 67 | % | 40-106 | | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 321-60-8 | |
| Terphenyl-d14 (S) | 72 | % | 55-146 | | 1 | 04/13/10 12:10 | 04/20/10 22:46 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **<0.44** | ug/L | 4.7 | 0.44 | 1 | 04/14/10 10:55 | 04/15/10 02:10 | 85-68-7 | |
| Di-n-butylphthalate | **<0.45** | ug/L | 4.7 | 0.45 | 1 | 04/14/10 10:55 | 04/15/10 02:10 | 84-74-2 | |
| Di-n-octylphthalate | **<0.47** | ug/L | 4.7 | 0.47 | 1 | 04/14/10 10:55 | 04/15/10 02:10 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.7 | 0.41 | 1 | 04/14/10 10:55 | 04/15/10 02:10 | 84-66-2 | |
| Dimethylphthalate | **0.36J** | ug/L | 4.7 | 0.27 | 1 | 04/14/10 10:55 | 04/15/10 02:10 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.95** | ug/L | 4.7 | 0.95 | 1 | 04/14/10 10:55 | 04/15/10 02:10 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 66 | % | 38-121 | | 1 | 04/14/10 10:55 | 04/15/10 02:10 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 58 | % | 40-110 | | 1 | 04/14/10 10:55 | 04/15/10 02:10 | 321-60-8 | |
| Terphenyl-d14 (S) | 71 | % | 26-130 | | 1 | 04/14/10 10:55 | 04/15/10 02:10 | 1718-51-0 | |
| Phenol-d6 (S) | 26 | % | 11-120 | | 1 | 04/14/10 10:55 | 04/15/10 02:10 | 13127-88-3 | |
| 2-Fluorophenol (S) | 40 | % | 20-120 | | 1 | 04/14/10 10:55 | 04/15/10 02:10 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 73 | % | 37-120 | | 1 | 04/14/10 10:55 | 04/15/10 02:10 | 118-79-6 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: SEP-001** **Lab ID: 253480006** Collected: 04/08/10 11:00 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 00:48 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:48 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 00:48 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/13/10 00:48 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/13/10 00:48 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 00:48 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/13/10 00:48 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 00:48 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/13/10 00:48 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 00:48 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **0.12J** | ug/L | 1.0 | 0.086 | 1 | | 04/13/10 00:48 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/13/10 00:48 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:48 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/13/10 00:48 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/13/10 00:48 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/13/10 00:48 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:48 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **0.32J** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:48 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:48 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 00:48 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:48 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/13/10 00:48 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/13/10 00:48 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/13/10 00:48 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/13/10 00:48 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/13/10 00:48 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/13/10 00:48 | 108-10-1 | |
| Acetone | **3.2J** | ug/L | 5.0 | 0.75 | 1 | | 04/13/10 00:48 | 67-64-1 | |
| Benzene | **0.14J** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 00:48 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:48 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/13/10 00:48 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 00:48 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/13/10 00:48 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/13/10 00:48 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:48 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/13/10 00:48 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 00:48 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/13/10 00:48 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 00:48 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:48 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 00:48 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/13/10 00:48 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/13/10 00:48 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 00:48 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/13/10 00:48 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 00:48 | 98-82-8 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: SEP-001** **Lab ID: 253480006** Collected: 04/08/10 11:00 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:48 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/13/10 00:48 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 00:48 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/13/10 00:48 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 00:48 | 127-18-4 | |
| Toluene | **0.49J** | ug/L | 1.0 | 0.21 | 1 | | 04/13/10 00:48 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 00:48 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/13/10 00:48 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/13/10 00:48 | 75-01-4 | |
| Xylene (Total) | **0.56J** | ug/L | 3.0 | 0.42 | 1 | | 04/13/10 00:48 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/13/10 00:48 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/13/10 00:48 | 10061-01-5 | |
| m&p-Xylene | **0.36J** | ug/L | 2.0 | 0.27 | 1 | | 04/13/10 00:48 | 1330-20-7 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 00:48 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:48 | 103-65-1 | |
| o-Xylene | **0.20J** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 00:48 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/13/10 00:48 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 00:48 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 00:48 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 00:48 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 00:48 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 94 | % | 80-120 | | 1 | | 04/13/10 00:48 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 80-122 | | 1 | | 04/13/10 00:48 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 101 | % | 80-124 | | 1 | | 04/13/10 00:48 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 80-123 | | 1 | | 04/13/10 00:48 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **<2000** | ug/L | 2000 | 2000 | 1 | | 04/16/10 15:30 | | H1 |
| **9012 Cyanide, Total** | Analytical Method: EPA 9012A Preparation Method: EPA 9012A | | | | | | | | |
| Cyanide | **<1.2** | ug/L | 10.0 | 1.2 | 1 | 04/17/10 12:30 | 04/17/10 19:01 | 57-12-5 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **1.3** | mg/L | 1.0 | 0.37 | 1 | | 04/19/10 18:00 | 7440-44-0 | |

**Sample: CB-42** **Lab ID: 253480007** Collected: 04/08/10 11:45 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.047 | 0.013 | 1 | 04/13/10 12:10 | 04/21/10 00:54 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.047 | 0.015 | 1 | 04/13/10 12:10 | 04/21/10 00:54 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.047 | 0.021 | 1 | 04/13/10 12:10 | 04/21/10 00:54 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.047 | 0.017 | 1 | 04/13/10 12:10 | 04/21/10 00:54 | 53469-21-9 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: CB-42** **Lab ID: 253480007** Collected: 04/08/10 11:45 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1248 (Aroclor 1248) | **<0.0094** | ug/L | 0.047 | 0.0094 | 1 | 04/13/10 12:10 | 04/21/10 00:54 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.047** | ug/L | 0.047 | 0.047 | 1 | 04/13/10 12:10 | 04/21/10 00:54 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.026** | ug/L | 0.047 | 0.026 | 1 | 04/13/10 12:10 | 04/21/10 00:54 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0027** | ug/L | 0.047 | 0.0027 | 1 | 04/13/10 12:10 | 04/21/10 00:54 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.047 | 0.024 | 1 | 04/13/10 12:10 | 04/21/10 00:54 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 84 | % | 64-120 | | 1 | 04/13/10 12:10 | 04/21/10 00:54 | 877-09-8 | |
| Decachlorobiphenyl (S) | 75 | % | 44-120 | | 1 | 04/13/10 12:10 | 04/21/10 00:54 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<35.6** | ug/L | 76.9 | 35.6 | 1 | 04/15/10 11:25 | 04/16/10 18:50 | | |
| Motor Oil Range SG | **133J** | ug/L | 385 | 58.7 | 1 | 04/15/10 11:25 | 04/16/10 18:50 | 64742-65-0 | |
| n-Octacosane (S) SG | 110 | % | 50-150 | | 1 | 04/15/10 11:25 | 04/16/10 18:50 | 630-02-4 | |
| o-Terphenyl (S) SG | 105 | % | 50-150 | | 1 | 04/15/10 11:25 | 04/16/10 18:50 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **13.6J** | ug/L | 50.0 | 13.4 | 1 | | 04/12/10 23:57 | | |
| a,a,a-Trifluorotoluene (S) | 92 | % | 50-150 | | 1 | | 04/12/10 23:57 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 81 | % | 50-150 | | 1 | | 04/12/10 23:57 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.18J** | ug/L | 0.50 | 0.062 | 1 | 04/16/10 11:04 | 04/17/10 04:06 | 7440-38-2 | |
| Barium | **8.6** | ug/L | 0.30 | 0.043 | 1 | 04/16/10 11:04 | 04/17/10 04:06 | 7440-39-3 | B |
| Cadmium | **0.15** | ug/L | 0.080 | 0.020 | 1 | 04/16/10 11:04 | 04/17/10 04:06 | 7440-43-9 | |
| Chromium | **0.37J** | ug/L | 0.50 | 0.24 | 1 | 04/16/10 11:04 | 04/17/10 04:06 | 7440-47-3 | |
| Copper | **3.5** | ug/L | 0.50 | 0.20 | 1 | 04/16/10 11:04 | 04/17/10 04:06 | 7440-50-8 | |
| Lead | **1.2** | ug/L | 0.10 | 0.020 | 1 | 04/16/10 11:04 | 04/17/10 04:06 | 7439-92-1 | B |
| Manganese | **44.5** | ug/L | 0.50 | 0.050 | 1 | 04/16/10 11:04 | 04/17/10 04:06 | 7439-96-5 | B |
| Selenium | **0.16J** | ug/L | 0.50 | 0.10 | 1 | 04/16/10 11:04 | 04/17/10 04:06 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 04/16/10 11:04 | 04/17/10 04:06 | 7440-22-4 | |
| Zinc | **65.3** | ug/L | 5.0 | 1.3 | 1 | 04/16/10 11:04 | 04/17/10 04:06 | 7440-66-6 | |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **0.087J** | ug/L | 0.50 | 0.062 | 1 | 04/16/10 11:36 | 04/19/10 17:25 | 7440-38-2 | |
| Barium, Dissolved | **6.7** | ug/L | 0.30 | 0.043 | 1 | 04/16/10 11:36 | 04/19/10 17:25 | 7440-39-3 | |
| Cadmium, Dissolved | **0.062J** | ug/L | 0.080 | 0.020 | 1 | 04/16/10 11:36 | 04/19/10 17:25 | 7440-43-9 | |
| Chromium, Dissolved | **<0.24** | ug/L | 0.50 | 0.24 | 1 | 04/16/10 11:36 | 04/19/10 17:25 | 7440-47-3 | |
| Copper, Dissolved | **4.9** | ug/L | 0.50 | 0.20 | 1 | 04/16/10 11:36 | 04/20/10 12:27 | 7440-50-8 | |
| Lead, Dissolved | **<0.020** | ug/L | 0.10 | 0.020 | 1 | 04/16/10 11:36 | 04/19/10 17:25 | 7439-92-1 | |
| Manganese, Dissolved | **40.9** | ug/L | 0.50 | 0.050 | 1 | 04/16/10 11:36 | 04/19/10 17:25 | 7439-96-5 | |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 04/16/10 11:36 | 04/19/10 17:25 | 7782-49-2 | |
| Silver, Dissolved | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 04/16/10 11:36 | 04/19/10 17:25 | 7440-22-4 | |
| Zinc, Dissolved | **58.4** | ug/L | 5.0 | 1.3 | 1 | 04/16/10 11:36 | 04/19/10 17:25 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 04/14/10 11:14 | 04/14/10 15:56 | 7439-97-6 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: CB-42** **Lab ID: 253480007** Collected: 04/08/10 11:45 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 04/14/10 11:14 | 04/14/10 16:24 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **<0.0060** | ug/L | 0.014 | 0.0060 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 90-12-0 | |
| 2-Chloronaphthalene | **<0.0013** | ug/L | 0.014 | 0.0013 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 91-58-7 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 91-57-6 | |
| Acenaphthene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 83-32-9 | |
| Acenaphthylene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 208-96-8 | |
| Anthracene | **<0.0012** | ug/L | 0.014 | 0.0012 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 56-55-3 | B- |
| Benzo(a)pyrene | **0.0032J** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 50-32-8 | B |
| Benzo(b)fluoranthene | **0.0039J** | ug/L | 0.014 | 0.0019 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 205-99-2 | B |
| Benzo(g,h,i)perylene | **0.0042J** | ug/L | 0.014 | 0.0016 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 191-24-2 | B |
| Benzo(k)fluoranthene | **0.0039J** | ug/L | 0.014 | 0.00066 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 207-08-9 | B |
| Chrysene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 218-01-9 | |
| Dibenz(a,h)anthracene | **0.0025J** | ug/L | 0.014 | 0.0017 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 53-70-3 | B |
| Fluoranthene | **0.0091J** | ug/L | 0.014 | 0.0018 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 206-44-0 | |
| Fluorene | **0.0069J** | ug/L | 0.014 | 0.0036 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **0.0036J** | ug/L | 0.014 | 0.0014 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 193-39-5 | B |
| Naphthalene | **0.0085J** | ug/L | 0.014 | 0.0014 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 91-20-3 | |
| Phenanthrene | **0.018** | ug/L | 0.014 | 0.0036 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 85-01-8 | |
| Pyrene | **0.013J** | ug/L | 0.014 | 0.0019 | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 129-00-0 | B |
| 2-Fluorobiphenyl (S) | 71 | % | 40-106 | | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 321-60-8 | |
| Terphenyl-d14 (S) | 78 | % | 55-146 | | 1 | 04/13/10 12:10 | 04/20/10 23:02 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **30.9** | ug/L | 4.8 | 0.44 | 1 | 04/14/10 10:55 | 04/15/10 02:32 | 85-68-7 | |
| Di-n-butylphthalate | **<0.45** | ug/L | 4.8 | 0.45 | 1 | 04/14/10 10:55 | 04/15/10 02:32 | 84-74-2 | |
| Di-n-octylphthalate | **<0.48** | ug/L | 4.8 | 0.48 | 1 | 04/14/10 10:55 | 04/15/10 02:32 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.8 | 0.41 | 1 | 04/14/10 10:55 | 04/15/10 02:32 | 84-66-2 | |
| Dimethylphthalate | **<0.27** | ug/L | 4.8 | 0.27 | 1 | 04/14/10 10:55 | 04/15/10 02:32 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.95** | ug/L | 4.8 | 0.95 | 1 | 04/14/10 10:55 | 04/15/10 02:32 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 66 | % | 38-121 | | 1 | 04/14/10 10:55 | 04/15/10 02:32 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 56 | % | 40-110 | | 1 | 04/14/10 10:55 | 04/15/10 02:32 | 321-60-8 | |
| Terphenyl-d14 (S) | 66 | % | 26-130 | | 1 | 04/14/10 10:55 | 04/15/10 02:32 | 1718-51-0 | |
| Phenol-d6 (S) | 28 | % | 11-120 | | 1 | 04/14/10 10:55 | 04/15/10 02:32 | 13127-88-3 | |
| 2-Fluorophenol (S) | 43 | % | 20-120 | | 1 | 04/14/10 10:55 | 04/15/10 02:32 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 74 | % | 37-120 | | 1 | 04/14/10 10:55 | 04/15/10 02:32 | 118-79-6 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 01:11 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 01:11 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 01:11 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/13/10 01:11 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/13/10 01:11 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 01:11 | 75-35-4 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: CB-42** **Lab ID: 253480007** Collected: 04/08/10 11:45 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/13/10 01:11 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 01:11 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/13/10 01:11 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 01:11 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/13/10 01:11 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/13/10 01:11 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 01:11 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/13/10 01:11 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/13/10 01:11 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/13/10 01:11 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 01:11 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 01:11 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 01:11 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 01:11 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 01:11 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/13/10 01:11 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/13/10 01:11 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/13/10 01:11 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/13/10 01:11 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/13/10 01:11 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/13/10 01:11 | 108-10-1 | |
| Acetone | **3.1J** | ug/L | 5.0 | 0.75 | 1 | | 04/13/10 01:11 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 01:11 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 01:11 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/13/10 01:11 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 01:11 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/13/10 01:11 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/13/10 01:11 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 01:11 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/13/10 01:11 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 01:11 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/13/10 01:11 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 01:11 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 01:11 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/13/10 01:11 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/13/10 01:11 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/13/10 01:11 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/13/10 01:11 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/13/10 01:11 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 01:11 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 01:11 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/13/10 01:11 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 01:11 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/13/10 01:11 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 01:11 | 127-18-4 | |
| Toluene | **4.3** | ug/L | 1.0 | 0.21 | 1 | | 04/13/10 01:11 | 108-88-3 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: CB-42** **Lab ID: 253480007** Collected: 04/08/10 11:45 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 01:11 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/13/10 01:11 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/13/10 01:11 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/13/10 01:11 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/13/10 01:11 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/13/10 01:11 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/13/10 01:11 | 1330-20-7 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 01:11 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 01:11 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/13/10 01:11 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/13/10 01:11 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/13/10 01:11 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/13/10 01:11 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/13/10 01:11 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/13/10 01:11 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 95 | % | 80-120 | | 1 | | 04/13/10 01:11 | 460-00-4 | |
| Dibromofluoromethane (S) | 102 | % | 80-122 | | 1 | | 04/13/10 01:11 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 101 | % | 80-124 | | 1 | | 04/13/10 01:11 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 80-123 | | 1 | | 04/13/10 01:11 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **5000** | ug/L | 2000 | 2000 | 1 | | 04/16/10 15:30 | | H1 |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **3.8** | mg/L | 1.0 | 0.37 | 1 | | 04/19/10 18:00 | 7440-44-0 | |

**Sample: Trip Blank** **Lab ID: 253480008** Collected: 04/08/10 00:00 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **13.9J** | ug/L | 50.0 | 13.4 | 1 | | 04/19/10 10:13 | | |
| a,a,a-Trifluorotoluene (S) | 101 | % | 50-150 | | 1 | | 04/19/10 10:13 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 91 | % | 50-150 | | 1 | | 04/19/10 10:13 | 460-00-4 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 18:45 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 18:45 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 18:45 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/12/10 18:45 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/12/10 18:45 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 18:45 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/12/10 18:45 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 18:45 | 87-61-6 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: Trip Blank** **Lab ID: 253480008** Collected: 04/08/10 00:00 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/12/10 18:45 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 18:45 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/12/10 18:45 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/12/10 18:45 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 18:45 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/12/10 18:45 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/12/10 18:45 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/12/10 18:45 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 18:45 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 18:45 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 18:45 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 18:45 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 18:45 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/12/10 18:45 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/12/10 18:45 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/12/10 18:45 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/12/10 18:45 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/12/10 18:45 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/12/10 18:45 | 108-10-1 | |
| Acetone | **1.1J** | ug/L | 5.0 | 0.75 | 1 | | 04/12/10 18:45 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 18:45 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 18:45 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/12/10 18:45 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 18:45 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/12/10 18:45 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/12/10 18:45 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 18:45 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/12/10 18:45 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 18:45 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/12/10 18:45 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 18:45 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 18:45 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/12/10 18:45 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/12/10 18:45 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/12/10 18:45 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/12/10 18:45 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/12/10 18:45 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 18:45 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 18:45 | 1634-04-4 | |
| Methylene chloride | **0.46J** | ug/L | 4.0 | 0.26 | 1 | | 04/12/10 18:45 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 18:45 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/12/10 18:45 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 18:45 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/12/10 18:45 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 18:45 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/12/10 18:45 | 75-69-4 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water
Pace Project No.: 253480

**Sample: Trip Blank** **Lab ID: 253480008** Collected: 04/08/10 00:00 Received: 04/09/10 09:30 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/12/10 18:45 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/12/10 18:45 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/12/10 18:45 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/12/10 18:45 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/12/10 18:45 | 1330-20-7 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 18:45 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 18:45 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/12/10 18:45 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/12/10 18:45 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/12/10 18:45 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/12/10 18:45 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/12/10 18:45 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/12/10 18:45 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 95 | % | 80-120 | | 1 | | 04/12/10 18:45 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 80-122 | | 1 | | 04/12/10 18:45 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 101 | % | 80-124 | | 1 | | 04/12/10 18:45 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 80-123 | | 1 | | 04/12/10 18:45 | 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.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

QC Batch: OEXT/2106 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

METHOD BLANK: 25855 Matrix: Water
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/L | <0.014 | 0.050 | 04/20/10 18:43 | |
| PCB-1221 (Aroclor 1221) | ug/L | <0.016 | 0.050 | 04/20/10 18:43 | |
| PCB-1232 (Aroclor 1232) | ug/L | <0.022 | 0.050 | 04/20/10 18:43 | |
| PCB-1242 (Aroclor 1242) | ug/L | <0.018 | 0.050 | 04/20/10 18:43 | |
| PCB-1248 (Aroclor 1248) | ug/L | <0.010 | 0.050 | 04/20/10 18:43 | |
| PCB-1254 (Aroclor 1254) | ug/L | <0.050 | 0.050 | 04/20/10 18:43 | |
| PCB-1260 (Aroclor 1260) | ug/L | <0.028 | 0.050 | 04/20/10 18:43 | |
| PCB-1262 (Aroclor 1262) | ug/L | <0.0029 | 0.050 | 04/20/10 18:43 | |
| PCB-1268 (Aroclor 1268) | ug/L | <0.025 | 0.050 | 04/20/10 18:43 | |
| Decachlorobiphenyl (S) | % | 90 | 44-120 | 04/20/10 18:43 | |
| Tetrachloro-m-xylene (S) | % | 83 | 64-120 | 04/20/10 18:43 | |

LABORATORY CONTROL SAMPLE & LCSD: 25856 25857

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/L | .5 | 0.39 | 0.46 | 78 | 92 | 50-120 | 17 | | |
| PCB-1260 (Aroclor 1260) | ug/L | .5 | 0.39 | 0.46 | 78 | 93 | 59-120 | 17 | | |
| Decachlorobiphenyl (S) | % | | | | 79 | 70 | 44-120 | | | |
| Tetrachloro-m-xylene (S) | % | | | | 79 | 91 | 64-120 | | | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

QC Batch: OEXT/2114 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

METHOD BLANK: 26034 Matrix: Water
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Diesel Range SG | ug/L | <37.0 | 80.0 | 04/16/10 15:52 | |
| Motor Oil Range SG | ug/L | 102J | 400 | 04/16/10 15:52 | |
| n-Octacosane (S) SG | % | 117 | 50-150 | 04/16/10 15:52 | |
| o-Terphenyl (S) SG | % | 109 | 50-150 | 04/16/10 15:52 | |

LABORATORY CONTROL SAMPLE & LCSD: 26035 26036

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range SG | ug/L | 5000 | 4440 | 4870 | 89 | 97 | 51-147 | 9 | 30 | |
| Motor Oil Range SG | ug/L | 5000 | 4720 | 5280 | 94 | 106 | 20-160 | 11 | 30 | |
| n-Octacosane (S) SG | % | | | | 110 | 120 | 50-150 | | | |
| o-Terphenyl (S) SG | % | | | | 103 | 103 | 50-150 | | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

QC Batch: GCV/1500 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

METHOD BLANK: 25800 Matrix: Water
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 16.5J | 50.0 | 04/12/10 13:21 | |
| 4-Bromofluorobenzene (S) | % | 96 | 50-150 | 04/12/10 13:21 | |
| a,a,a-Trifluorotoluene (S) | % | 103 | 50-150 | 04/12/10 13:21 | |

LABORATORY CONTROL SAMPLE: 25801

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 250 | 245 | 98 | 50-163 | |
| 4-Bromofluorobenzene (S) | % | | | 92 | 50-150 | |
| a,a,a-Trifluorotoluene (S) | % | | | 94 | 50-150 | |

SAMPLE DUPLICATE: 25872

| Parameter | Units | 253480003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 17.0J | 14.7J | | 30 | |
| 4-Bromofluorobenzene (S) | % | 88 | 93 | 5 | | |
| a,a,a-Trifluorotoluene (S) | % | 96 | 98 | 2 | | |

SAMPLE DUPLICATE: 25873

| Parameter | Units | 253484002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | <13.4 | <13.4 | | 30 | |
| 4-Bromofluorobenzene (S) | % | 74 | 58 | 24 | | |
| a,a,a-Trifluorotoluene (S) | % | 84 | 70 | 19 | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

QC Batch: GCV/1504 | Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx | Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 253480008

METHOD BLANK: 26195 | Matrix: Water
Associated Lab Samples: 253480008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 14.9J | 50.0 | 04/19/10 07:54 | |
| 4-Bromofluorobenzene (S) | % | 106 | 50-150 | 04/19/10 07:54 | |
| a,a,a-Trifluorotoluene (S) | % | 105 | 50-150 | 04/19/10 07:54 | |

LABORATORY CONTROL SAMPLE: 26196

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 250 | 245 | 98 | 50-163 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 50-150 | |
| a,a,a-Trifluorotoluene (S) | % | | | 97 | 50-150 | |

SAMPLE DUPLICATE: 26307

| Parameter | Units | 253516003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 77700 | 74300 | 4 | 30 | |
| 4-Bromofluorobenzene (S) | % | 107 | 96 | 11 | | |
| a,a,a-Trifluorotoluene (S) | % | 108 | 105 | 3 | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

QC Batch: ICPM/19989 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

METHOD BLANK: 774452 Matrix: Water
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | ug/L | <0.062 | 0.50 | 04/17/10 03:07 | |
| Barium | ug/L | 0.045J | 0.30 | 04/17/10 03:07 | |
| Cadmium | ug/L | <0.020 | 0.080 | 04/17/10 03:07 | |
| Chromium | ug/L | <0.24 | 0.50 | 04/17/10 03:07 | |
| Copper | ug/L | <0.20 | 0.50 | 04/17/10 03:07 | |
| Lead | ug/L | 0.029J | 0.10 | 04/17/10 03:07 | |
| Manganese | ug/L | 0.24J | 0.50 | 04/17/10 03:07 | |
| Selenium | ug/L | <0.10 | 0.50 | 04/17/10 03:07 | |
| Silver | ug/L | <0.071 | 0.50 | 04/17/10 03:07 | |
| Zinc | ug/L | <1.3 | 5.0 | 04/17/10 03:07 | |

LABORATORY CONTROL SAMPLE: 774453

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | ug/L | 80 | 81.3 | 102 | 85-115 | |
| Barium | ug/L | 80 | 81.7 | 102 | 85-115 | |
| Cadmium | ug/L | 80 | 81.2 | 102 | 85-115 | |
| Chromium | ug/L | 80 | 80.7 | 101 | 85-115 | |
| Copper | ug/L | 80 | 83.6 | 104 | 85-115 | |
| Lead | ug/L | 80 | 82.1 | 103 | 85-115 | |
| Manganese | ug/L | 80 | 81.3 | 102 | 85-115 | |
| Selenium | ug/L | 80 | 81.0 | 101 | 85-115 | |
| Silver | ug/L | 80 | 82.9 | 104 | 85-115 | |
| Zinc | ug/L | 80 | 81.9 | 102 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 774454 774455

| Parameter | Units | 253480001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | <0.062 | 80 | 80 | 81.4 | 81.4 | 102 | 102 | 70-130 | 0 | 20 | |
| Barium | ug/L | 0.91 | 80 | 80 | 88.0 | 87.0 | 109 | 108 | 70-130 | 1 | 20 | |
| Cadmium | ug/L | <0.020 | 80 | 80 | 82.9 | 81.6 | 104 | 102 | 70-130 | 2 | 20 | |
| Chromium | ug/L | <0.24 | 80 | 80 | 82.4 | 80.7 | 103 | 101 | 70-130 | 2 | 20 | |
| Copper | ug/L | 0.34J | 80 | 80 | 88.1 | 86.4 | 110 | 108 | 70-130 | 2 | 20 | |
| Lead | ug/L | 0.087J | 80 | 80 | 83.8 | 82.7 | 105 | 103 | 70-130 | 1 | 20 | |
| Manganese | ug/L | 0.98 | 80 | 80 | 86.9 | 86.2 | 107 | 106 | 70-130 | 1 | 20 | |
| Selenium | ug/L | <0.10 | 80 | 80 | 85.2 | 80.8 | 107 | 101 | 70-130 | 5 | 20 | |
| Silver | ug/L | <0.071 | 80 | 80 | 83.8 | 83.3 | 105 | 104 | 70-130 | 1 | 20 | |
| Zinc | ug/L | 30.9 | 80 | 80 | 240 | 237 | 261 | 257 | 70-130 | 1 | 20 | M0 |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

QC Batch: ICPM/19986 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

METHOD BLANK: 774438 Matrix: Water
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic, Dissolved | ug/L | <0.062 | 0.50 | 04/19/10 16:01 | |
| Barium, Dissolved | ug/L | <0.043 | 0.30 | 04/19/10 16:01 | |
| Cadmium, Dissolved | ug/L | <0.020 | 0.080 | 04/19/10 16:01 | |
| Chromium, Dissolved | ug/L | <0.24 | 0.50 | 04/19/10 16:01 | |
| Copper, Dissolved | ug/L | <0.20 | 0.50 | 04/20/10 11:25 | |
| Lead, Dissolved | ug/L | <0.020 | 0.10 | 04/19/10 16:01 | |
| Manganese, Dissolved | ug/L | <0.050 | 0.50 | 04/19/10 16:01 | |
| Selenium, Dissolved | ug/L | <0.10 | 0.50 | 04/19/10 16:01 | |
| Silver, Dissolved | ug/L | <0.071 | 0.50 | 04/19/10 16:01 | |
| Zinc, Dissolved | ug/L | <1.3 | 5.0 | 04/19/10 16:01 | |

LABORATORY CONTROL SAMPLE: 774439

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic, Dissolved | ug/L | 80 | 76.5 | 96 | 85-115 | |
| Barium, Dissolved | ug/L | 80 | 80.4 | 101 | 85-115 | |
| Cadmium, Dissolved | ug/L | 80 | 79.2 | 99 | 85-115 | |
| Chromium, Dissolved | ug/L | 80 | 80.8 | 101 | 85-115 | |
| Copper, Dissolved | ug/L | 80 | 84.8 | 106 | 85-115 | |
| Lead, Dissolved | ug/L | 80 | 79.5 | 99 | 85-115 | |
| Manganese, Dissolved | ug/L | 80 | 81.7 | 102 | 85-115 | |
| Selenium, Dissolved | ug/L | 80 | 75.8 | 95 | 85-115 | |
| Silver, Dissolved | ug/L | 80 | 77.7 | 97 | 85-115 | |
| Zinc, Dissolved | ug/L | 80 | 75.8 | 95 | 85-115 | |

MATRIX SPIKE SAMPLE: 774442

| Parameter | Units | 253480006 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic, Dissolved | ug/L | 0.12J | 80 | 81.5 | 102 | 70-130 | |
| Barium, Dissolved | ug/L | 3.1 | 80 | 83.2 | 100 | 70-130 | |
| Cadmium, Dissolved | ug/L | <0.020 | 80 | 80.2 | 100 | 70-130 | |
| Chromium, Dissolved | ug/L | 0.35J | 80 | 82.2 | 102 | 70-130 | |
| Copper, Dissolved | ug/L | 2.2 | 80 | 81.9 | 100 | 70-130 | |
| Lead, Dissolved | ug/L | <0.020 | 80 | 79.8 | 100 | 70-130 | |
| Manganese, Dissolved | ug/L | 2.7 | 80 | 101 | 123 | 70-130 | |
| Selenium, Dissolved | ug/L | <0.10 | 80 | 79.4 | 99 | 70-130 | |
| Silver, Dissolved | ug/L | <0.071 | 80 | 76.4 | 95 | 70-130 | |
| Zinc, Dissolved | ug/L | 43.3 | 80 | 125 | 103 | 70-130 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 774658 774659

| Parameter | Units | 20776039 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic, Dissolved | ug/L | | 80 | 80 | 98.0 | 89.9 | 121 | 111 | 70-130 | 9 | 20 | |
| Barium, Dissolved | ug/L | | 80 | 80 | 704 | 662 | 222 | 170 | 70-130 | 6 | 20 | M0 |
| Cadmium, Dissolved | ug/L | | 80 | 80 | 97.6 | 89.4 | 122 | 112 | 70-130 | 9 | 20 | |
| Chromium, Dissolved | ug/L | | 80 | 80 | 99.1 | 91.7 | 124 | 114 | 70-130 | 8 | 20 | |
| Copper, Dissolved | ug/L | | 80 | 80 | 78.8 | 86.8 | 98 | 108 | 70-130 | 10 | 20 | |
| Lead, Dissolved | ug/L | | 80 | 80 | 96.2 | 88.0 | 120 | 110 | 70-130 | 9 | 20 | |
| Manganese, Dissolved | ug/L | | 80 | 80 | 274 | 274 | 168 | 169 | 70-130 | 0 | 20 | M0 |
| Selenium, Dissolved | ug/L | | 80 | 80 | 95.6 | 89.2 | 117 | 109 | 70-130 | 7 | 20 | |
| Silver, Dissolved | ug/L | | 80 | 80 | 15.8 | 13.2 | 20 | 16 | 70-130 | 18 | 20 | M0 |
| Zinc, Dissolved | ug/L | | 80 | 80 | 95.5 | 86.0 | 116 | 104 | 70-130 | 10 | 20 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

QC Batch: MERP/1156 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

METHOD BLANK: 25898 Matrix: Water
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | <0.013 | 0.20 | 04/14/10 15:31 | |

LABORATORY CONTROL SAMPLE: 25899

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 5 | 5.3 | 106 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 25900 25901

| Parameter | Units | 253480001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | <0.013 | 5 | 5 | 5.3 | 5.3 | 105 | 105 | 75-125 | .1 | 20 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

QC Batch: MERP/1157 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

METHOD BLANK: 25902 Matrix: Water
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | <0.072 | 0.20 | 04/14/10 15:58 | |

LABORATORY CONTROL SAMPLE: 25903

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | 5 | 5.3 | 106 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 25904 25905

| Parameter | Units | 253480001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | <0.072 | 5 | 5 | 5.2 | 5.2 | 105 | 105 | 85-115 | .02 | 20 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

QC Batch: OEXT/2107 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Low Level PAH SIM
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

METHOD BLANK: 25858 Matrix: Water
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1-Methylnaphthalene | ug/L | <0.0063 | 0.015 | 04/20/10 20:34 | |
| 2-Chloronaphthalene | ug/L | <0.0014 | 0.015 | 04/20/10 20:34 | |
| 2-Methylnaphthalene | ug/L | <0.012 | 0.015 | 04/20/10 20:34 | |
| Acenaphthene | ug/L | <0.00070 | 0.015 | 04/20/10 20:34 | |
| Acenaphthylene | ug/L | <0.00071 | 0.015 | 04/20/10 20:34 | |
| Anthracene | ug/L | <0.0013 | 0.015 | 04/20/10 20:34 | |
| Benzo(a)anthracene | ug/L | 0.016 | 0.015 | 04/20/10 20:34 | B |
| Benzo(a)pyrene | ug/L | 0.012J | 0.015 | 04/20/10 20:34 | B |
| Benzo(b)fluoranthene | ug/L | 0.014J | 0.015 | 04/20/10 20:34 | B |
| Benzo(g,h,i)perylene | ug/L | 0.012J | 0.015 | 04/20/10 20:34 | B |
| Benzo(k)fluoranthene | ug/L | 0.021 | 0.015 | 04/20/10 20:34 | B |
| Chrysene | ug/L | <0.0018 | 0.015 | 04/20/10 20:34 | |
| Dibenz(a,h)anthracene | ug/L | 0.012J | 0.015 | 04/20/10 20:34 | B |
| Fluoranthene | ug/L | 0.0070J | 0.015 | 04/20/10 20:34 | |
| Fluorene | ug/L | <0.0038 | 0.015 | 04/20/10 20:34 | |
| Indeno(1,2,3-cd)pyrene | ug/L | 0.014J | 0.015 | 04/20/10 20:34 | B |
| Naphthalene | ug/L | 0.0051J | 0.015 | 04/20/10 20:34 | |
| Phenanthrene | ug/L | 0.0058J | 0.015 | 04/20/10 20:34 | |
| Pyrene | ug/L | 0.0090J | 0.015 | 04/20/10 20:34 | B |
| 2-Fluorobiphenyl (S) | % | 81 | 40-106 | 04/20/10 20:34 | |
| Terphenyl-d14 (S) | % | 86 | 55-146 | 04/20/10 20:34 | |

LABORATORY CONTROL SAMPLE & LCSD: 25859 25860

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ug/L | 2 | 1.4 | 1.4 | 71 | 69 | 14-126 | 4 | 30 | |
| 2-Chloronaphthalene | ug/L | | <0.0014 | <0.0014 | | | | | 30 | |
| 2-Methylnaphthalene | ug/L | 2 | 1.6 | 1.6 | 80 | 78 | 30-121 | 3 | 30 | |
| Acenaphthene | ug/L | 2 | 1.5 | 1.4 | 74 | 69 | 32-124 | 7 | 30 | |
| Acenaphthylene | ug/L | 2 | 2.0 | 1.8 | 102 | 92 | 34-128 | 9 | 30 | |
| Anthracene | ug/L | 2 | 1.5 | 1.5 | 74 | 74 | 50-129 | .06 | 30 | |
| Benzo(a)anthracene | ug/L | 2 | 1.6 | 1.8 | 81 | 92 | 58-161 | 13 | 30 | |
| Benzo(a)pyrene | ug/L | 2 | 1.4 | 1.6 | 72 | 82 | 52-156 | 13 | 30 | |
| Benzo(b)fluoranthene | ug/L | 2 | 1.6 | 1.9 | 81 | 93 | 61-167 | 14 | 30 | |
| Benzo(g,h,i)perylene | ug/L | 2 | 1.4 | 1.6 | 72 | 80 | 56-167 | 11 | 30 | |
| Benzo(k)fluoranthene | ug/L | 2 | 1.4 | 1.5 | 69 | 76 | 60-149 | 10 | 30 | |
| Chrysene | ug/L | 2 | 1.8 | 2.1 | 92 | 105 | 61-141 | 13 | 30 | |
| Dibenz(a,h)anthracene | ug/L | 2 | 1.5 | 1.7 | 77 | 87 | 60-176 | 12 | 30 | |
| Fluoranthene | ug/L | 2 | 1.5 | 1.7 | 76 | 83 | 63-155 | 8 | 30 | |
| Fluorene | ug/L | 2 | 2.1 | 2.0 | 103 | 101 | 44-129 | 2 | 30 | |
| Indeno(1,2,3-cd)pyrene | ug/L | 2 | 1.5 | 1.7 | 76 | 85 | 51-159 | 11 | 30 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

## QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

LABORATORY CONTROL SAMPLE & LCSD: 25859 25860

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ug/L | 2 | 1.5 | 1.4 | 74 | 69 | 29-120 | 7 | 30 | |
| Phenanthrene | ug/L | 2 | 1.4 | 1.5 | 71 | 75 | 56-136 | 5 | 30 | |
| Pyrene | ug/L | 2 | 1.6 | 1.8 | 81 | 90 | 61-143 | 11 | 30 | |
| 2-Fluorobiphenyl (S) | % | | | | 93 | 86 | 40-106 | | | |
| Terphenyl-d14 (S) | % | | | | 81 | 90 | 55-146 | | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

QC Batch: OEXT/2108 Analysis Method: EPA 8270
QC Batch Method: EPA 3520 Analysis Description: 8270 Water MSSV Phthalates
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

METHOD BLANK: 25861 Matrix: Water
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | ug/L | <1.0 | 5.0 | 04/14/10 21:57 | |
| Butylbenzylphthalate | ug/L | <0.46 | 5.0 | 04/14/10 21:57 | |
| Di-n-butylphthalate | ug/L | <0.47 | 5.0 | 04/14/10 21:57 | |
| Di-n-octylphthalate | ug/L | <0.50 | 5.0 | 04/14/10 21:57 | |
| Diethylphthalate | ug/L | 0.70J | 5.0 | 04/14/10 21:57 | |
| Dimethylphthalate | ug/L | <0.28 | 5.0 | 04/14/10 21:57 | |
| 2,4,6-Tribromophenol (S) | % | 82 | 37-120 | 04/14/10 21:57 | |
| 2-Fluorobiphenyl (S) | % | 79 | 40-110 | 04/14/10 21:57 | |
| 2-Fluorophenol (S) | % | 57 | 20-120 | 04/14/10 21:57 | |
| Nitrobenzene-d5 (S) | % | 88 | 38-121 | 04/14/10 21:57 | |
| Phenol-d6 (S) | % | 38 | 11-120 | 04/14/10 21:57 | |
| Terphenyl-d14 (S) | % | 82 | 26-130 | 04/14/10 21:57 | |

LABORATORY CONTROL SAMPLE & LCSD: 25862 25863

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | ug/L | 20 | 15.0 | 14.6 | 75 | 73 | 50-130 | 3 | 30 | |
| Butylbenzylphthalate | ug/L | 20 | 13.5 | 13.2 | 67 | 66 | 44-130 | 2 | 30 | |
| Di-n-butylphthalate | ug/L | 20 | 14.0 | 14.3 | 70 | 71 | 53-130 | 2 | 30 | |
| Di-n-octylphthalate | ug/L | 20 | 12.7 | 13.1 | 64 | 66 | 54-130 | 3 | 30 | |
| Diethylphthalate | ug/L | 20 | 14.8 | 15.5 | 74 | 78 | 20-126 | 5 | 30 | |
| Dimethylphthalate | ug/L | 20 | 14.7 | 15.6 | 73 | 78 | 54-130 | 6 | 30 | |
| 2,4,6-Tribromophenol (S) | % | | | | 86 | 89 | 37-120 | | | |
| 2-Fluorobiphenyl (S) | % | | | | 80 | 80 | 40-110 | | | |
| 2-Fluorophenol (S) | % | | | | 58 | 60 | 20-120 | | | |
| Nitrobenzene-d5 (S) | % | | | | 87 | 90 | 38-121 | | | |
| Phenol-d6 (S) | % | | | | 38 | 39 | 11-120 | | | |
| Terphenyl-d14 (S) | % | | | | 80 | 85 | 26-130 | | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

QC Batch: MSV/2266 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007, 253480008

METHOD BLANK: 25809 Matrix: Water
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007, 253480008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.15 | 1.0 | 04/12/10 17:59 | |
| 1,1,1-Trichloroethane | ug/L | <0.20 | 1.0 | 04/12/10 17:59 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.22 | 1.0 | 04/12/10 17:59 | |
| 1,1,2-Trichloroethane | ug/L | <0.19 | 1.0 | 04/12/10 17:59 | |
| 1,1-Dichloroethane | ug/L | <0.23 | 1.0 | 04/12/10 17:59 | |
| 1,1-Dichloroethene | ug/L | <0.12 | 1.0 | 04/12/10 17:59 | |
| 1,1-Dichloropropene | ug/L | <0.094 | 1.0 | 04/12/10 17:59 | |
| 1,2,3-Trichlorobenzene | ug/L | 3.9 | 1.0 | 04/12/10 17:59 | B- |
| 1,2,3-Trichloropropane | ug/L | <0.37 | 1.0 | 04/12/10 17:59 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.15 | 1.0 | 04/12/10 17:59 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.086 | 1.0 | 04/12/10 17:59 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <0.79 | 1.0 | 04/12/10 17:59 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.20 | 1.0 | 04/12/10 17:59 | |
| 1,2-Dichlorobenzene | ug/L | <0.25 | 1.0 | 04/12/10 17:59 | |
| 1,2-Dichloroethane | ug/L | <0.074 | 1.0 | 04/12/10 17:59 | |
| 1,2-Dichloroethene (Total) | ug/L | <0.50 | 2.0 | 04/12/10 17:59 | |
| 1,2-Dichloropropane | ug/L | <0.16 | 1.0 | 04/12/10 17:59 | |
| 1,3,5-Trimethylbenzene | ug/L | 0.26J | 1.0 | 04/12/10 17:59 | |
| 1,3-Dichlorobenzene | ug/L | <0.16 | 1.0 | 04/12/10 17:59 | |
| 1,3-Dichloropropane | ug/L | <0.22 | 1.0 | 04/12/10 17:59 | |
| 1,4-Dichlorobenzene | ug/L | <0.20 | 1.0 | 04/12/10 17:59 | |
| 2,2-Dichloropropane | ug/L | <0.27 | 1.0 | 04/12/10 17:59 | |
| 2-Butanone (MEK) | ug/L | <1.6 | 5.0 | 04/12/10 17:59 | |
| 2-Chlorotoluene | ug/L | <0.098 | 1.0 | 04/12/10 17:59 | |
| 2-Hexanone | ug/L | <0.57 | 5.0 | 04/12/10 17:59 | |
| 4-Chlorotoluene | ug/L | <0.13 | 1.0 | 04/12/10 17:59 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | <0.32 | 5.0 | 04/12/10 17:59 | |
| Acetone | ug/L | <0.75 | 5.0 | 04/12/10 17:59 | |
| Benzene | ug/L | <0.12 | 1.0 | 04/12/10 17:59 | |
| Bromobenzene | ug/L | <0.16 | 1.0 | 04/12/10 17:59 | |
| Bromochloromethane | ug/L | <0.34 | 1.0 | 04/12/10 17:59 | |
| Bromodichloromethane | ug/L | <0.11 | 1.0 | 04/12/10 17:59 | |
| Bromoform | ug/L | <0.23 | 1.0 | 04/12/10 17:59 | |
| Bromomethane | ug/L | <0.072 | 1.0 | 04/12/10 17:59 | |
| Carbon disulfide | ug/L | <0.16 | 1.0 | 04/12/10 17:59 | |
| Carbon tetrachloride | ug/L | <0.25 | 1.0 | 04/12/10 17:59 | |
| Chlorobenzene | ug/L | <0.12 | 1.0 | 04/12/10 17:59 | |
| Chloroethane | ug/L | <0.27 | 1.0 | 04/12/10 17:59 | |
| Chloroform | ug/L | <0.15 | 1.0 | 04/12/10 17:59 | |
| Chloromethane | ug/L | <0.20 | 1.0 | 04/12/10 17:59 | |
| cis-1,2-Dichloroethene | ug/L | <0.32 | 1.0 | 04/12/10 17:59 | |
| cis-1,3-Dichloropropene | ug/L | <0.086 | 1.0 | 04/12/10 17:59 | |
| Dibromochloromethane | ug/L | <0.12 | 1.0 | 04/12/10 17:59 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

METHOD BLANK: 25809 Matrix: Water

Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007, 253480008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Dibromomethane | ug/L | <0.18 | 1.0 | 04/12/10 17:59 | |
| Dichlorodifluoromethane | ug/L | <0.19 | 1.0 | 04/12/10 17:59 | |
| Ethylbenzene | ug/L | <0.20 | 1.0 | 04/12/10 17:59 | |
| Hexachloro-1,3-butadiene | ug/L | <0.27 | 1.0 | 04/12/10 17:59 | |
| Isopropylbenzene (Cumene) | ug/L | <0.11 | 1.0 | 04/12/10 17:59 | |
| m&p-Xylene | ug/L | <0.27 | 2.0 | 04/12/10 17:59 | |
| Methyl-tert-butyl ether | ug/L | <0.16 | 1.0 | 04/12/10 17:59 | |
| Methylene chloride | ug/L | <0.26 | 4.0 | 04/12/10 17:59 | |
| n-Butylbenzene | ug/L | <0.10 | 1.0 | 04/12/10 17:59 | |
| n-Propylbenzene | ug/L | <0.16 | 1.0 | 04/12/10 17:59 | |
| Naphthalene | ug/L | 3.1 | 1.0 | 04/12/10 17:59 | B+ |
| o-Xylene | ug/L | <0.15 | 1.0 | 04/12/10 17:59 | |
| p-Isopropyltoluene | ug/L | <0.074 | 1.0 | 04/12/10 17:59 | |
| sec-Butylbenzene | ug/L | 0.25J | 1.0 | 04/12/10 17:59 | |
| Styrene | ug/L | <0.074 | 1.0 | 04/12/10 17:59 | |
| tert-Butylbenzene | ug/L | <0.11 | 1.0 | 04/12/10 17:59 | |
| Tetrachloroethene | ug/L | <0.10 | 1.0 | 04/12/10 17:59 | |
| Toluene | ug/L | <0.21 | 1.0 | 04/12/10 17:59 | |
| trans-1,2-Dichloroethene | ug/L | <0.22 | 1.0 | 04/12/10 17:59 | |
| trans-1,3-Dichloropropene | ug/L | <0.16 | 1.0 | 04/12/10 17:59 | |
| Trichloroethene | ug/L | <0.22 | 1.0 | 04/12/10 17:59 | |
| Trichlorofluoromethane | ug/L | <0.24 | 1.0 | 04/12/10 17:59 | |
| Vinyl chloride | ug/L | <0.050 | 1.0 | 04/12/10 17:59 | |
| Xylene (Total) | ug/L | <0.42 | 3.0 | 04/12/10 17:59 | |
| 1,2-Dichloroethane-d4 (S) | % | 99 | 80-124 | 04/12/10 17:59 | |
| 4-Bromofluorobenzene (S) | % | 95 | 80-120 | 04/12/10 17:59 | |
| Dibromofluoromethane (S) | % | 101 | 80-122 | 04/12/10 17:59 | |
| Toluene-d8 (S) | % | 100 | 80-123 | 04/12/10 17:59 | |

LABORATORY CONTROL SAMPLE: 25810

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 40 | 43.7 | 109 | 73-126 | |
| 1,1,1-Trichloroethane | ug/L | 40 | 42.7 | 107 | 69-135 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 40 | 42.8 | 107 | 69-123 | |
| 1,1,2-Trichloroethane | ug/L | 40 | 41.9 | 105 | 76-114 | |
| 1,1-Dichloroethane | ug/L | 40 | 40.7 | 102 | 74-124 | |
| 1,1-Dichloroethene | ug/L | 40 | 44.1 | 110 | 69-139 | |
| 1,1-Dichloropropene | ug/L | 40 | 44.8 | 112 | 77-134 | |
| 1,2,3-Trichlorobenzene | ug/L | 40 | 34.0 | 85 | 63-136 | |
| 1,2,3-Trichloropropane | ug/L | 40 | 40.7 | 102 | 66-118 | |
| 1,2,4-Trichlorobenzene | ug/L | 40 | 29.4 | 74 | 68-129 | |
| 1,2,4-Trimethylbenzene | ug/L | 40 | 44.4 | 111 | 72-126 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 40 | 33.2 | 83 | 64-124 | |
| 1,2-Dibromoethane (EDB) | ug/L | 40 | 42.5 | 106 | 78-117 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

LABORATORY CONTROL SAMPLE: 25810

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | ug/L | 40 | 42.6 | 106 | 74-118 | |
| 1,2-Dichloroethane | ug/L | 40 | 43.1 | 108 | 73-127 | |
| 1,2-Dichloroethene (Total) | ug/L | 80 | 87.3 | 109 | 60-140 | |
| 1,2-Dichloropropane | ug/L | 40 | 43.9 | 110 | 72-126 | |
| 1,3,5-Trimethylbenzene | ug/L | 40 | 39.1 | 98 | 68-129 | |
| 1,3-Dichlorobenzene | ug/L | 40 | 41.6 | 104 | 73-119 | |
| 1,3-Dichloropropane | ug/L | 40 | 43.1 | 108 | 74-119 | |
| 1,4-Dichlorobenzene | ug/L | 40 | 41.0 | 103 | 73-115 | |
| 2,2-Dichloropropane | ug/L | 40 | 43.0 | 108 | 46-157 | |
| 2-Butanone (MEK) | ug/L | 40 | 44.7 | 112 | 65-138 | |
| 2-Chlorotoluene | ug/L | 40 | 41.3 | 103 | 68-122 | |
| 2-Hexanone | ug/L | 40 | 42.3 | 106 | 60-135 | |
| 4-Chlorotoluene | ug/L | 40 | 42.4 | 106 | 70-122 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 40 | 44.2 | 111 | 70-135 | |
| Acetone | ug/L | 40 | 40.8 | 102 | 58-146 | |
| Benzene | ug/L | 40 | 43.7 | 109 | 75-124 | |
| Bromobenzene | ug/L | 40 | 39.1 | 98 | 74-116 | |
| Bromochloromethane | ug/L | 40 | 42.3 | 106 | 75-128 | |
| Bromodichloromethane | ug/L | 40 | 45.2 | 113 | 77-126 | |
| Bromoform | ug/L | 40 | 38.2 | 95 | 61-131 | |
| Bromomethane | ug/L | 20 | 21.7 | 108 | 58-139 | |
| Carbon disulfide | ug/L | 40 | 37.6 | 94 | 39-122 | |
| Carbon tetrachloride | ug/L | 40 | 43.8 | 109 | 67-136 | |
| Chlorobenzene | ug/L | 40 | 41.2 | 103 | 78-115 | |
| Chloroethane | ug/L | 20 | 23.0 | 115 | 58-137 | |
| Chloroform | ug/L | 40 | 41.8 | 104 | 75-124 | |
| Chloromethane | ug/L | 20 | 23.0 | 115 | 50-129 | |
| cis-1,2-Dichloroethene | ug/L | 40 | 44.2 | 111 | 78-126 | |
| cis-1,3-Dichloropropene | ug/L | 40 | 41.6 | 104 | 78-159 | |
| Dibromochloromethane | ug/L | 40 | 40.4 | 101 | 81-125 | |
| Dibromomethane | ug/L | 40 | 44.9 | 112 | 75-124 | |
| Dichlorodifluoromethane | ug/L | 20 | 20.6 | 103 | 30-140 | |
| Ethylbenzene | ug/L | 40 | 43.1 | 108 | 76-124 | |
| Hexachloro-1,3-butadiene | ug/L | 40 | 37.3 | 93 | 55-132 | |
| Isopropylbenzene (Cumene) | ug/L | 40 | 45.3 | 113 | 73-127 | |
| m&p-Xylene | ug/L | 80 | 87.3 | 109 | 75-124 | |
| Methyl-tert-butyl ether | ug/L | 20 | 21.7 | 109 | 72-130 | |
| Methylene chloride | ug/L | 40 | 36.4 | 91 | 69-124 | |
| n-Butylbenzene | ug/L | 40 | 42.5 | 106 | 65-131 | |
| n-Propylbenzene | ug/L | 40 | 40.8 | 102 | 69-129 | |
| Naphthalene | ug/L | 40 | 36.8 | 92 | 69-135 | |
| o-Xylene | ug/L | 40 | 44.4 | 111 | 76-121 | |
| p-Isopropyltoluene | ug/L | 40 | 43.4 | 109 | 69-133 | |
| sec-Butylbenzene | ug/L | 40 | 40.3 | 101 | 67-132 | |
| Styrene | ug/L | 40 | 46.1 | 115 | 76-121 | |
| tert-Butylbenzene | ug/L | 40 | 39.8 | 100 | 66-132 | |
| Tetrachloroethene | ug/L | 40 | 29.7 | 74 | 70-127 | |
| Toluene | ug/L | 40 | 39.4 | 99 | 75-124 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

LABORATORY CONTROL SAMPLE: 25810

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ug/L | 40 | 43.1 | 108 | 72-129 | |
| trans-1,3-Dichloropropene | ug/L | 40 | 36.5 | 91 | 69-122 | |
| Trichloroethene | ug/L | 40 | 42.1 | 105 | 78-124 | |
| Trichlorofluoromethane | ug/L | 20 | 18.9 | 95 | 60-147 | |
| Vinyl chloride | ug/L | 20 | 22.0 | 110 | 56-136 | |
| Xylene (Total) | ug/L | 120 | 132 | 110 | 76-123 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 101 | 80-124 | |
| 4-Bromofluorobenzene (S) | % | | | 102 | 80-120 | |
| Dibromofluoromethane (S) | % | | | 102 | 80-122 | |
| Toluene-d8 (S) | % | | | 100 | 80-123 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 25811 25812

| Parameter | Units | 253503001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 40 | 40 | 42.6 | 46.3 | 106 | 116 | 73-126 | 8 | 30 | |
| 1,1,1-Trichloroethane | ug/L | ND | 40 | 40 | 43.7 | 46.4 | 109 | 116 | 69-135 | 6 | 30 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 40 | 40 | 41.0 | 44.5 | 103 | 111 | 69-123 | 8 | 30 | |
| 1,1,2-Trichloroethane | ug/L | ND | 40 | 40 | 40.5 | 43.6 | 101 | 109 | 76-114 | 7 | 30 | |
| 1,1-Dichloroethane | ug/L | ND | 40 | 40 | 41.7 | 44.9 | 104 | 112 | 74-124 | 7 | 30 | |
| 1,1-Dichloroethene | ug/L | ND | 40 | 40 | 45.9 | 48.6 | 115 | 121 | 69-139 | 6 | 30 | |
| 1,1-Dichloropropene | ug/L | ND | 40 | 40 | 48.0 | 51.6 | 120 | 129 | 77-134 | 7 | 30 | |
| 1,2,3-Trichlorobenzene | ug/L | ND | 40 | 40 | 39.4 | 43.6 | 99 | 109 | 63-136 | 10 | 30 | |
| 1,2,3-Trichloropropane | ug/L | ND | 40 | 40 | 38.2 | 41.4 | 96 | 104 | 66-118 | 8 | 30 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 40 | 40 | 32.6 | 35.9 | 82 | 90 | 68-129 | 10 | 30 | |
| 1,2,4-Trimethylbenzene | ug/L | ND | 40 | 40 | 46.7 | 50.1 | 116 | 125 | 72-126 | 7 | 30 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 40 | 40 | 35.3 | 39.2 | 88 | 98 | 64-124 | 11 | 30 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 40 | 40 | 40.1 | 43.5 | 100 | 109 | 78-117 | 8 | 30 | |
| 1,2-Dichlorobenzene | ug/L | 4.6 | 40 | 40 | 47.2 | 50.8 | 106 | 115 | 74-118 | 7 | 30 | |
| 1,2-Dichloroethane | ug/L | ND | 40 | 40 | 42.4 | 44.2 | 106 | 111 | 73-127 | 4 | 30 | |
| 1,2-Dichloroethene (Total) | ug/L | ND | 80 | 80 | 88.4 | 94.3 | 111 | 118 | 60-140 | 7 | 30 | |
| 1,2-Dichloropropane | ug/L | ND | 40 | 40 | 43.4 | 46.3 | 109 | 116 | 72-126 | 6 | 30 | |
| 1,3,5-Trimethylbenzene | ug/L | ND | 40 | 40 | 41.8 | 44.9 | 104 | 111 | 68-129 | 7 | 30 | |
| 1,3-Dichlorobenzene | ug/L | ND | 40 | 40 | 43.1 | 45.7 | 108 | 114 | 73-119 | 6 | 30 | |
| 1,3-Dichloropropane | ug/L | ND | 40 | 40 | 39.9 | 43.8 | 100 | 109 | 74-119 | 9 | 30 | |
| 1,4-Dichlorobenzene | ug/L | ND | 40 | 40 | 42.1 | 44.8 | 105 | 111 | 73-115 | 6 | 30 | |
| 2,2-Dichloropropane | ug/L | ND | 40 | 40 | 46.9 | 49.5 | 117 | 124 | 46-157 | 5 | 30 | |
| 2-Butanone (MEK) | ug/L | ND | 40 | 40 | 44.1 | 46.7 | 110 | 117 | 65-138 | 6 | 30 | |
| 2-Chlorotoluene | ug/L | ND | 40 | 40 | 43.0 | 46.0 | 107 | 115 | 68-122 | 7 | 30 | |
| 2-Hexanone | ug/L | ND | 40 | 40 | 43.4 | 44.8 | 108 | 112 | 60-135 | 3 | 30 | |
| 4-Chlorotoluene | ug/L | ND | 40 | 40 | 43.9 | 47.2 | 110 | 118 | 70-122 | 7 | 30 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 40 | 40 | 44.2 | 46.0 | 110 | 115 | 70-135 | 4 | 30 | |
| Acetone | ug/L | ND | 40 | 40 | 60.3 | 54.3 | 151 | 136 | 58-146 | 11 | 30 | M0 |
| Benzene | ug/L | 3.4 | 40 | 40 | 47.4 | 50.5 | 110 | 118 | 75-124 | 6 | 30 | |
| Bromobenzene | ug/L | ND | 40 | 40 | 39.3 | 42.6 | 98 | 106 | 74-116 | 8 | 30 | |
| Bromochloromethane | ug/L | ND | 40 | 40 | 41.1 | 44.0 | 103 | 110 | 75-128 | 7 | 30 | |
| Bromodichloromethane | ug/L | ND | 40 | 40 | 44.6 | 47.6 | 112 | 119 | 77-126 | 6 | 30 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 25811 25812

| Parameter | Units | 253503001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | ug/L | ND | 40 | 40 | 36.6 | 39.8 | 92 | 99 | 61-131 | 8 | 30 | |
| Bromomethane | ug/L | ND | 20 | 20 | 23.7 | 24.5 | 118 | 123 | 58-139 | 4 | 30 | |
| Carbon disulfide | ug/L | ND | 40 | 40 | 40.5 | 43.0 | 101 | 107 | 39-122 | 6 | 30 | |
| Carbon tetrachloride | ug/L | ND | 40 | 40 | 44.5 | 47.0 | 111 | 118 | 67-136 | 5 | 30 | |
| Chlorobenzene | ug/L | 11.8 | 40 | 40 | 52.1 | 55.8 | 101 | 110 | 78-115 | 7 | 30 | |
| Chloroethane | ug/L | ND | 20 | 20 | 27.4 | 27.3 | 137 | 137 | 58-137 | .3 | 30 | |
| Chloroform | ug/L | ND | 40 | 40 | 42.3 | 45.5 | 106 | 114 | 75-124 | 7 | 30 | |
| Chloromethane | ug/L | ND | 20 | 20 | 24.5 | 24.5 | 121 | 122 | 50-129 | .2 | 30 | |
| cis-1,2-Dichloroethene | ug/L | ND | 40 | 40 | 44.0 | 47.1 | 110 | 118 | 78-126 | 7 | 30 | |
| cis-1,3-Dichloropropene | ug/L | ND | 40 | 40 | 41.6 | 45.6 | 104 | 114 | 78-159 | 9 | 30 | |
| Dibromochloromethane | ug/L | ND | 40 | 40 | 38.3 | 41.7 | 96 | 104 | 81-125 | 9 | 30 | |
| Dibromomethane | ug/L | ND | 40 | 40 | 42.2 | 44.9 | 106 | 112 | 75-124 | 6 | 30 | |
| Dichlorodifluoromethane | ug/L | ND | 20 | 20 | 29.1 | 28.2 | 146 | 141 | 30-140 | 3 | 30 | M0 |
| Ethylbenzene | ug/L | ND | 40 | 40 | 43.8 | 47.4 | 108 | 117 | 76-124 | 8 | 30 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 40 | 40 | 46.7 | 52.1 | 117 | 130 | 55-132 | 11 | 30 | |
| Isopropylbenzene (Cumene) | ug/L | 18.0 | 40 | 40 | 63.3 | 67.4 | 113 | 123 | 73-127 | 6 | 30 | |
| m&p-Xylene | ug/L | 2.5 | 80 | 80 | 90.8 | 98.2 | 110 | 120 | 75-124 | 8 | 30 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 20 | 21.8 | 22.6 | 109 | 113 | 72-130 | 3 | 30 | |
| Methylene chloride | ug/L | ND | 40 | 40 | 34.9 | 40.5 | 87 | 101 | 69-124 | 15 | 30 | |
| n-Butylbenzene | ug/L | 1.5 | 40 | 40 | 51.1 | 54.8 | 124 | 133 | 65-131 | 7 | 30 | M0 |
| n-Propylbenzene | ug/L | 14.3 | 40 | 40 | 57.9 | 61.3 | 109 | 117 | 69-129 | 6 | 30 | |
| Naphthalene | ug/L | 3.3 | 40 | 40 | 41.3 | 45.3 | 95 | 105 | 69-135 | 9 | 30 | |
| o-Xylene | ug/L | ND | 40 | 40 | 44.2 | 47.8 | 111 | 119 | 76-121 | 8 | 30 | |
| p-Isopropyltoluene | ug/L | ND | 40 | 40 | 48.3 | 52.7 | 120 | 132 | 69-133 | 9 | 30 | |
| sec-Butylbenzene | ug/L | 4.1 | 40 | 40 | 48.3 | 51.9 | 110 | 120 | 67-132 | 7 | 30 | |
| Styrene | ug/L | ND | 40 | 40 | 45.4 | 49.3 | 113 | 123 | 76-121 | 8 | 30 | M0 |
| tert-Butylbenzene | ug/L | ND | 40 | 40 | 42.6 | 46.4 | 105 | 115 | 66-132 | 9 | 30 | |
| Tetrachloroethene | ug/L | ND | 40 | 40 | 30.2 | 33.0 | 76 | 83 | 70-127 | 9 | 30 | |
| Toluene | ug/L | ND | 40 | 40 | 39.9 | 43.4 | 98 | 106 | 75-124 | 8 | 30 | |
| trans-1,2-Dichloroethene | ug/L | ND | 40 | 40 | 44.4 | 47.3 | 111 | 118 | 72-129 | 6 | 30 | |
| trans-1,3-Dichloropropene | ug/L | ND | 40 | 40 | 34.9 | 38.7 | 87 | 97 | 69-122 | 10 | 30 | |
| Trichloroethene | ug/L | ND | 40 | 40 | 43.9 | 47.3 | 110 | 118 | 78-124 | 7 | 30 | |
| Trichlorofluoromethane | ug/L | ND | 20 | 20 | 22.2 | 21.6 | 111 | 108 | 60-147 | 3 | 30 | |
| Vinyl chloride | ug/L | ND | 20 | 20 | 26.8 | 26.0 | 134 | 130 | 56-136 | 3 | 30 | |
| Xylene (Total) | ug/L | ND | 120 | 120 | 135 | 146 | 110 | 120 | 76-123 | 8 | 30 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 100 | 99 | 80-124 | | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 105 | 103 | 80-120 | | | |
| Dibromofluoromethane (S) | % | | | | | | 103 | 101 | 80-122 | | | |
| Toluene-d8 (S) | % | | | | | | 100 | 100 | 80-123 | | | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

QC Batch: WET/1929 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

METHOD BLANK: 25993 Matrix: Water
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Total Suspended Solids | ug/L | <2000 | 2000 | 04/16/10 15:30 | |

SAMPLE DUPLICATE: 26171

| Parameter | Units | 253476002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | ug/L | 138 mg/L | 156000 | 12 | 20 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

QC Batch: WETA/1478
QC Batch Method: EPA 9012A
Analysis Method: EPA 9012A
Analysis Description: EPA 9012 Cyanide
Associated Lab Samples: 253480006

METHOD BLANK: 26083
Matrix: Water
Associated Lab Samples: 253480006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Cyanide | ug/L | <1.2 | 10.0 | 04/17/10 19:01 | |

LABORATORY CONTROL SAMPLE: 26084

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Cyanide | ug/L | 100 | 95.5 | 96 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 26085 26086

| Parameter | Units | 253480006 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ug/L | <1.2 | 100 | 100 | 95.7 | 67.5 | 96 | 68 | 64-135 | 35 | 11 | M0,R1 |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water
Pace Project No.: 253480

QC Batch: WETA/12662 Analysis Method: EPA 9060
QC Batch Method: EPA 9060 Analysis Description: 9060 TOC
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

METHOD BLANK: 631334 Matrix: Water
Associated Lab Samples: 253480001, 253480002, 253480003, 253480004, 253480005, 253480006, 253480007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | <0.37 | 1.0 | 04/19/10 18:00 | |

LABORATORY CONTROL SAMPLE: 631335

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 5 | 5.0 | 100 | 84-120 | |

MATRIX SPIKE SAMPLE: 631336

| Parameter | Units | 253480001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 1.2 | 5 | 6.2 | 100 | 59-144 | |

SAMPLE DUPLICATE: 631337

| Parameter | Units | 253480002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 1.4 | 1.3 | 6 | 25 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALIFIERS

Project: 00922 - Storm Water
Pace Project No.: 253480

## 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

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

## LABORATORIES

| | |
|---|---|
| PASI-K | Pace Analytical Services - Kansas City |
| PASI-M | Pace Analytical Services - Minneapolis |
| PASI-S | Pace Analytical Services - Seattle |

## BATCH QUALIFIERS

Batch: MSSV/1276

| | |
|---|---|
| [M5] | A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume. |

## ANALYTE QUALIFIERS

| | |
|---|---|
| B | Analyte was detected in the associated method blank. |
| B+ | Analyte was detected in the associated method blank as well as in the sample. |
| B- | Analyte detected in method blank but was not detected in the associated samples. |
| H1 | Analysis conducted outside the EPA method holding time. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| R1 | RPD value was outside control limits. |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 00922 - Storm Water
Pace Project No.: 253480

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **253480001** | **MH-12 (4" Line)** | EPA 3510 | OEXT/2106 | EPA 8082 | GCSV/1564 |
| **253480002** | **MH-X** | EPA 3510 | OEXT/2106 | EPA 8082 | GCSV/1564 |
| **253480003** | **MH-12 (12")** | EPA 3510 | OEXT/2106 | EPA 8082 | GCSV/1564 |
| **253480004** | **MH-12 (6")** | EPA 3510 | OEXT/2106 | EPA 8082 | GCSV/1564 |
| **253480005** | **MH-3** | EPA 3510 | OEXT/2106 | EPA 8082 | GCSV/1564 |
| **253480006** | **SEP-001** | EPA 3510 | OEXT/2106 | EPA 8082 | GCSV/1564 |
| **253480007** | **CB-42** | EPA 3510 | OEXT/2106 | EPA 8082 | GCSV/1564 |
| **253480001** | **MH-12 (4" Line)** | EPA 3510 | OEXT/2114 | NWTPH-Dx | GCSV/1571 |
| **253480002** | **MH-X** | EPA 3510 | OEXT/2114 | NWTPH-Dx | GCSV/1571 |
| **253480003** | **MH-12 (12")** | EPA 3510 | OEXT/2114 | NWTPH-Dx | GCSV/1571 |
| **253480004** | **MH-12 (6")** | EPA 3510 | OEXT/2114 | NWTPH-Dx | GCSV/1571 |
| **253480005** | **MH-3** | EPA 3510 | OEXT/2114 | NWTPH-Dx | GCSV/1571 |
| **253480006** | **SEP-001** | EPA 3510 | OEXT/2114 | NWTPH-Dx | GCSV/1571 |
| **253480007** | **CB-42** | EPA 3510 | OEXT/2114 | NWTPH-Dx | GCSV/1571 |
| **253480001** | **MH-12 (4" Line)** | NWTPH-Gx | GCV/1500 | | |
| **253480002** | **MH-X** | NWTPH-Gx | GCV/1500 | | |
| **253480003** | **MH-12 (12")** | NWTPH-Gx | GCV/1500 | | |
| **253480004** | **MH-12 (6")** | NWTPH-Gx | GCV/1500 | | |
| **253480005** | **MH-3** | NWTPH-Gx | GCV/1500 | | |
| **253480006** | **SEP-001** | NWTPH-Gx | GCV/1500 | | |
| **253480007** | **CB-42** | NWTPH-Gx | GCV/1500 | | |
| **253480008** | **Trip Blank** | NWTPH-Gx | GCV/1504 | | |
| **253480001** | **MH-12 (4" Line)** | EPA 6020 | ICPM/19989 | EPA 6020 | ICPM/8201 |
| **253480002** | **MH-X** | EPA 6020 | ICPM/19989 | EPA 6020 | ICPM/8201 |
| **253480003** | **MH-12 (12")** | EPA 6020 | ICPM/19989 | EPA 6020 | ICPM/8201 |
| **253480004** | **MH-12 (6")** | EPA 6020 | ICPM/19989 | EPA 6020 | ICPM/8201 |
| **253480005** | **MH-3** | EPA 6020 | ICPM/19989 | EPA 6020 | ICPM/8201 |
| **253480006** | **SEP-001** | EPA 6020 | ICPM/19989 | EPA 6020 | ICPM/8201 |
| **253480007** | **CB-42** | EPA 6020 | ICPM/19989 | EPA 6020 | ICPM/8201 |
| **253480001** | **MH-12 (4" Line)** | EPA 6020 | ICPM/19986 | EPA 6020 | ICPM/8204 |
| **253480002** | **MH-X** | EPA 6020 | ICPM/19986 | EPA 6020 | ICPM/8204 |
| **253480003** | **MH-12 (12")** | EPA 6020 | ICPM/19986 | EPA 6020 | ICPM/8204 |
| **253480004** | **MH-12 (6")** | EPA 6020 | ICPM/19986 | EPA 6020 | ICPM/8204 |
| **253480005** | **MH-3** | EPA 6020 | ICPM/19986 | EPA 6020 | ICPM/8204 |
| **253480006** | **SEP-001** | EPA 6020 | ICPM/19986 | EPA 6020 | ICPM/8204 |
| **253480007** | **CB-42** | EPA 6020 | ICPM/19986 | EPA 6020 | ICPM/8204 |
| **253480001** | **MH-12 (4" Line)** | EPA 7470 | MERP/1156 | EPA 7470 | MERC/1171 |
| **253480002** | **MH-X** | EPA 7470 | MERP/1156 | EPA 7470 | MERC/1171 |
| **253480003** | **MH-12 (12")** | EPA 7470 | MERP/1156 | EPA 7470 | MERC/1171 |
| **253480004** | **MH-12 (6")** | EPA 7470 | MERP/1156 | EPA 7470 | MERC/1171 |
| **253480005** | **MH-3** | EPA 7470 | MERP/1156 | EPA 7470 | MERC/1171 |
| **253480006** | **SEP-001** | EPA 7470 | MERP/1156 | EPA 7470 | MERC/1171 |
| **253480007** | **CB-42** | EPA 7470 | MERP/1156 | EPA 7470 | MERC/1171 |
| **253480001** | **MH-12 (4" Line)** | EPA 7470 | MERP/1157 | EPA 7470 | MERC/1172 |
| **253480002** | **MH-X** | EPA 7470 | MERP/1157 | EPA 7470 | MERC/1172 |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 00922 - Storm Water
Pace Project No.: 253480

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **253480003** | **MH-12 (12")** | EPA 7470 | MERP/1157 | EPA 7470 | MERC/1172 |
| **253480004** | **MH-12 (6")** | EPA 7470 | MERP/1157 | EPA 7470 | MERC/1172 |
| **253480005** | **MH-3** | EPA 7470 | MERP/1157 | EPA 7470 | MERC/1172 |
| **253480006** | **SEP-001** | EPA 7470 | MERP/1157 | EPA 7470 | MERC/1172 |
| **253480007** | **CB-42** | EPA 7470 | MERP/1157 | EPA 7470 | MERC/1172 |
| **253480001** | **MH-12 (4" Line)** | EPA 3510 | OEXT/2107 | EPA 8270 by SIM | MSSV/1274 |
| **253480002** | **MH-X** | EPA 3510 | OEXT/2107 | EPA 8270 by SIM | MSSV/1274 |
| **253480003** | **MH-12 (12")** | EPA 3510 | OEXT/2107 | EPA 8270 by SIM | MSSV/1274 |
| **253480004** | **MH-12 (6")** | EPA 3510 | OEXT/2107 | EPA 8270 by SIM | MSSV/1274 |
| **253480005** | **MH-3** | EPA 3510 | OEXT/2107 | EPA 8270 by SIM | MSSV/1274 |
| **253480006** | **SEP-001** | EPA 3510 | OEXT/2107 | EPA 8270 by SIM | MSSV/1274 |
| **253480007** | **CB-42** | EPA 3510 | OEXT/2107 | EPA 8270 by SIM | MSSV/1274 |
| **253480001** | **MH-12 (4" Line)** | EPA 3520 | OEXT/2108 | EPA 8270 | MSSV/1276 |
| **253480002** | **MH-X** | EPA 3520 | OEXT/2108 | EPA 8270 | MSSV/1276 |
| **253480003** | **MH-12 (12")** | EPA 3520 | OEXT/2108 | EPA 8270 | MSSV/1276 |
| **253480004** | **MH-12 (6")** | EPA 3520 | OEXT/2108 | EPA 8270 | MSSV/1276 |
| **253480005** | **MH-3** | EPA 3520 | OEXT/2108 | EPA 8270 | MSSV/1276 |
| **253480006** | **SEP-001** | EPA 3520 | OEXT/2108 | EPA 8270 | MSSV/1276 |
| **253480007** | **CB-42** | EPA 3520 | OEXT/2108 | EPA 8270 | MSSV/1276 |
| **253480001** | **MH-12 (4" Line)** | EPA 5030B/8260 | MSV/2266 | | |
| **253480002** | **MH-X** | EPA 5030B/8260 | MSV/2266 | | |
| **253480003** | **MH-12 (12")** | EPA 5030B/8260 | MSV/2266 | | |
| **253480004** | **MH-12 (6")** | EPA 5030B/8260 | MSV/2266 | | |
| **253480005** | **MH-3** | EPA 5030B/8260 | MSV/2266 | | |
| **253480006** | **SEP-001** | EPA 5030B/8260 | MSV/2266 | | |
| **253480007** | **CB-42** | EPA 5030B/8260 | MSV/2266 | | |
| **253480008** | **Trip Blank** | EPA 5030B/8260 | MSV/2266 | | |
| **253480001** | **MH-12 (4" Line)** | SM 2540D | WET/1929 | | |
| **253480002** | **MH-X** | SM 2540D | WET/1929 | | |
| **253480003** | **MH-12 (12")** | SM 2540D | WET/1929 | | |
| **253480004** | **MH-12 (6")** | SM 2540D | WET/1929 | | |
| **253480005** | **MH-3** | SM 2540D | WET/1929 | | |
| **253480006** | **SEP-001** | SM 2540D | WET/1929 | | |
| **253480007** | **CB-42** | SM 2540D | WET/1929 | | |
| **253480006** | **SEP-001** | EPA 9012A | WETA/1478 | EPA 9012A | WETA/1484 |
| **253480001** | **MH-12 (4" Line)** | EPA 9060 | WETA/12662 | | |
| **253480002** | **MH-X** | EPA 9060 | WETA/12662 | | |
| **253480003** | **MH-12 (12")** | EPA 9060 | WETA/12662 | | |
| **253480004** | **MH-12 (6")** | EPA 9060 | WETA/12662 | | |
| **253480005** | **MH-3** | EPA 9060 | WETA/12662 | | |
| **253480006** | **SEP-001** | EPA 9060 | WETA/12662 | | |
| **253480007** | **CB-42** | EPA 9060 | WETA/12662 | | |



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

# Sample Condition Upon Receipt

Pace Analytical

Client Name: Stantec

Project # 253480

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other PCS

Tracking #: 1275179

Optional
Proj. Due Date:
Proj. Name:

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used Horiba 132013 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.3, 2.1, 2.0, 2.7, Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 4/9/10 AR

Temp should be above freezing to 6°C 2.0, 2.2, 4.5

Comments:

| | | |
|---|---|---|
| Chain of Custody Present: | ☑Yes ☐No ☐N/A | 1. |
| Chain of Custody Filled Out: | ☑Yes ☐No ☐N/A | 2. |
| Chain of Custody Relinquished: | ☑Yes ☐No ☐N/A | 3. |
| Sampler Name & Signature on COC: | ☑Yes ☐No ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☑Yes ☐No ☐N/A | 5. |
| **Short Hold Time Analysis (<72hr):** | ☐Yes ☑No ☐N/A | 6. |
| **Rush Turn Around Time Requested:** | ☐Yes ☑No ☐N/A | 7. |
| Sufficient Volume: | ☑Yes ☐No ☐N/A | 8. |
| Correct Containers Used: | ☐Yes ☑No ☐N/A | 9. Samples for Cyanide received in Zn Acetate/NaOH preserved containers. |
| -Pace Containers Used: | ☑Yes ☐No ☐N/A | Method calls for NaOH only → only sample (Sep-cal) received in correct container. |
| Containers Intact: | ☑Yes ☐No ☐N/A | 10. |
| Filtered volume received for Dissolved tests | ☐Yes ☑No ☐N/A | 11. unpreserved sample to be filtered and preserved |
| Sample Labels match COC: | ☑Yes ☐No ☐N/A | 12. by lab upon receipt. |
| -Includes date/time/ID/Analysis Matrix: Water | | |
| All containers needing preservation have been checked. | ☑Yes ☐No ☐N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | ☑Yes ☐No ☐N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | ☑Yes ☐No | Initial when completed / Lot # of added preservative |
| Samples checked for dechlorination: | ☐Yes ☐No ☑N/A | 14. |
| Headspace in VOA Vials ( >6mm): | ☑Yes ☐No ☐N/A | 15. 1 of 6 Trip blanks received with headspace. |
| Trip Blank Present: | ☑Yes ☐No ☐N/A | 16. |
| Trip Blank Custody Seals Present | ☐Yes ☐No ☑N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

Field Data Required? Y / N

**Client Notification/ Resolution:**

Person Contacted: Mark Trewartha Date/Time: 04/09/10 - Per UsaD phone call.

Comments/ Resolution: Client notified that three bottles for cyanide were the incorrect bottle.

**Project Manager Review:** JENNI GROSS **Date:** 4/9/10

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

Pace Analytical®
www.pacelabs.com

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

1222521

**Section A** Required Client Information:

Company: Stantec
Address: 7730 SW Mohawk St. Tualatin, OR 97062
Email To: Mark.trewartha
Phone: 503 691-2030 Fax: 503 692-7074
Requested Due Date/TAT: STD

**Section B** Required Project Information:

Report To: Mark trewartha
Copy To: Chris Carlton-Franco
Purchase Order No.: 4513206763
Project Name: PDX Terminal (922) Stormwater
Project Number: 212302312

**Section C** Invoice Information:

Attention:
Company Name: ConocoPhillips
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER Stormwater

Site Location STATE: OR

WO#253480

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test (Y/N) | NWTPH-Gx | NWTPH-Dx w/ silgel cleanup | 9060 TOC | 8260 VOCs | 8270 SIM Phthalates | 8270 SIM PAHs | 8082 PCBs | 6000/7000 total + dissolved | 8081A Pesticides | TSS | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MH-12 (4" line) | WT | G | 8 Apr 2010 | 0615 | | | | | X | X | X | X | X | | | | | X | X | | X | | X | X | X | X | X | | 253480 001 |
| 2 | MH-X | WT | G | 8 Apr 2010 | 0730 | | | | | X | X | X | X | X | | | | | X | X | | X | | X | X | X | X | X | | 002 |
| 3 | MH-12 (12") | WT | G | 8 Apr 2010 | 0800 | | | | | X | X | X | X | X | | | | | X | X | | X | | X | X | X | X | X | | 003 |
| 4 | MH-12 (6") | WT | G | 8 Apr 2010 | 0830 | | | | | X | X | X | X | X | | | | | X | X | | X | | X | X | X | X | X | | 004 |
| 5 | MH-3 | WT | G | 8 Apr 2010 | 1030 | | | | | X | X | X | X | X | | | | | X | X | | X | | X | X | X | X | X | | 005 |
| 6 | SEP-001 | WT | G | 8 Apr 2010 | 1100 | | | | | X | X | X | X | X | | | | | X | X | | X | | X | X | X | X | X | | 006 |
| 7 | CB-42 | WT | G | 8 Apr 2010 | 1145 | | | | | X | X | X | X | X | | | | | X | X | | X | | X | X | X | X | X | | 007 |
| 8 | TB | WT | / | 8 Apr 2010 | — | | | | | X | | | | | | | | | X | | | X | | | | | | | | 008 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| USE JSCS detection levels | Stantec | | | Amanda Rudy / Pace | 4/9/10 | 0930 | * | Y | Y | Y |
| | | | | | | | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |

* Cooler Temps: 2.3, 2.1, 2.0, 2.7, 2.0, 2.2, 4.5

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Chris Carlton-Franco
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 8 Apr 2010

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

1222522

**Section A** Required Client Information:

Company: Stantec
Address: 7730 SW Mohawk St.
Tualatin, OR 97062
Email To: Mark Trewartha
Phone: 503 691-2030 Fax: (503) 692-7074
Requested Due Date/TAT:

**Section B** Required Project Information:

Report To: Mark Trewartha
Copy To: Chris Carlton-Franco
Purchase Order No.: 4513206763
Project Name: PDX Terminal (922) Stormwater
Project Number: 212302312

**Section C** Invoice Information:

Attention:
Company Name: ConocoPhillips
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER Stormwater

Site Location STATE: OR

WO# 253480

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED Composite Start DATE | COLLECTED Composite Start TIME | COLLECTED Composite End/Grab DATE | COLLECTED Composite End/Grab TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test (Y/N): SW-846 9012A Cyanide | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MH-12 (4" line) | WT | G | 8 Apr 2010 | | 0615 | | | | X | X | X | X | X | | | | X | | 253480 001 |
| 2 | MH-X | WT | G | | | 0730 | | | | X | X | X | X | X | | | | X | | 002 |
| 3 | MH-12 (12") | WT | G | | | 0800 | | | | X | X | X | X | X | | | | X | | 003 |
| 4 | MH-12 (6") | WT | G | | | 0830 | | | | X | X | X | X | X | | | | X | | 004 |
| 5 | MH-3 | WT | G | | | 1030 | | | | X | X | X | X | X | | | | X | | 005 |
| 6 | SCD-001 | WT | G | | | 1100 | | | | X | X | X | X | X | | | | X | | 006 |
| 7 | CB-42 | WT | G | | | 1145 | | | | X | X | X | X | X | | | | X | | 007 |
| 8 | TB | WT | G | | | | | | | X | | | | | | | | | | 008 |
| 9 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| USE JSCS detection levels | Stantec | 8 Apr 2010 | 1200 | Annette Poly / Pace | 4/9/10 | 0930 | * | Y | Y | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |

*Cooler Temps: 2.3, 2.1, 2.0, 2.7, 2.0, 2.2, 4.5

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Chris Carlton-Franco

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 8 Apr 2010

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

# Sample Container Count

Pace Analytical™ www.pacelabs.com

CLIENT: Stantec

COC PAGE 1 of 2

COC ID# 1222521

| Sample Line Item | VG9H | AG1H | AG1U | BG1H | BP1U | BP2U | BP3U | BP2N | BP2S | WGFU | WGKU | BP2Z | BP3C | AG2S | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6 | 1/2 | 5 | | | 2 | | 1/2 | | | | 1 | | 1 | |
| 2 | ↓ | | ↓ | | | ↓ | | ↓ | | | | ↓ | | ↓ | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | Ø | 1 | | |
| 6 | | | | | | | | | | | | 1 | | | |
| 7 | | | | | | | | | | | | | | | Trip Blank |
| 8 | 6 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | Trip Blank? yes |
| 12 | | | | | | | | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| AG1H | 1 liter HCL amber glass | BP2S | 500mL H2SO4 plastic | JGFU | 4oz unpreserved amber wide |
| AG1U | 1liter unpreserved amber glass | BP2U | 500mL unpreserved plastic | R | terra core kit |
| AG2S | 500mL H2SO4 amber glass | BP2Z | 500mL NaOH, Zn Ac | U | Summa Can |
| AG2U | 500mL unpreserved amber glass | BP3C | 250mL NaOH plastic | VG9H | 40mL HCL clear vial |
| AG3S | 250mL H2SO4 amber glass | BP3N | 250mL HNO3 plastic | VG9T | 40mL Na Thio. clear vial |
| BG1H | 1 liter HCL clear glass | BP3S | 250mL H2SO4 plastic | VG9U | 40mL unpreserved clear vial |
| BG1U | 1 liter unpreserved glass | BP3U | 250mL unpreserved plastic | VG9W | 40mL glass vial preweighted (EPA 5035) |
| BP1N | 1 liter HNO3 plastic | DG9B | 40mL Na Bisulfate amber vial | VSG | Headspace septa vial & HCL |
| BP1S | 1 liter H2SO4 plastic | DG9H | 40mL HCL amber voa vial | WGFU | 4oz clear soil jar |
| BP1U | 1 liter unpreserved plastic | DG9M | 40mL MeOH clear vial | WGFX | 4oz wide jar w/hexane wipe |
| BP1Z | 1 liter NaOH, Zn, Ac | DG9T | 40mL Na Thio amber vial | ZPLC | Ziploc Bag |
| BP2N | 500mL HNO3 plastic | DG9U | 40mL unpreserved amber vial | | |
| BP2O | 500mL NaOH plastic | I | Wipe/Swab | | |

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

May 12, 2010

Alice Larsen
COP_Stantec Oregon
7730 SW Mohawk Street
Tualatin, OR 97062

RE: Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

Dear Alice Larsen:
Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The TOC samples were shipped from Pace-Seattle on Thursday for Friday delivery and were received at Pace-Kansas on Monday due to FedEx flight delay. The temperature was 11.9C and outside the EPA recommended temperature of 4C +/- 2C.

Samples are warmed to room temperature (20C) prior to analyses. Since samples were still cooled and unopened, the temperature should have no impact on the data set."

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

Sincerely,

Jennifer Gross

jennifer.gross@pacelabs.com
Project Manager

Enclosures



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060



cc: Mark Bare, COP_Stantec Oregon
Chris Carlton-Franco, Stantec
Janet Nash, Stantec
Mark Trewartha, Stantec



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# CERTIFICATIONS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Minnesota Certification IDs**

Arizona Certification #: AZ-0014
Louisiana Certification #: LA080009
Florida/NELAP Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Alaska Certification #: UST-078
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Wisconsin Certification #: 999407970
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
California Certification #: 01155CA

**Washington Certification IDs**

Alaska CS Certification #: UST-025
Alaska Drinking Water VOC Certification #: WA01-09
Alaska Drinking Water Micro Certification #: WA01230
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
940 South Harney Street Seattle, WA 98108
Washington Certification #: C1229

**Kansas Certification IDs**

9608 Loiret Boulevard Lenexa, KS 66219
Washington Certification #: C2069
Utah Certification #: 9135995665
Texas Certification #: T104704407-08-TX
Oregon Certification #: KS200001
Oklahoma Certification #: 9205/9935
A2LA Certification #: 2456.01
Louisiana Certification #: 03055
Kansas/NELAP Certification #: E-10116
Iowa Certification #: 118
Illinois Certification #: 001191
Arkansas Certification #: 05-008-0
Nevada Certification #: KS000212008A



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

## SAMPLE SUMMARY

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **253591001** | **MH 12 (4")** | Water | 04/27/10 06:35 | 04/28/10 08:45 |
| **253591002** | **MH 12 (6")** | Water | 04/27/10 07:00 | 04/28/10 08:45 |
| **253591003** | **MH 12 (12")** | Water | 04/27/10 07:40 | 04/28/10 08:45 |
| **253591004** | **MH3** | Water | 04/27/10 08:45 | 04/28/10 08:45 |
| **253591005** | **SEP-001** | Water | 04/27/10 09:40 | 04/28/10 08:45 |
| **253591006** | **CB-42** | Water | 04/27/10 10:00 | 04/28/10 08:45 |
| **253591007** | **TB-1** | Water | 04/27/10 00:00 | 04/28/10 08:45 |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# SAMPLE ANALYTE COUNT

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **253591001** | **MH 12 (4")** | EPA 8082 | DMT | 11 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | ATH | 3 | PASI-S |
| | | EPA 6020 | RJS | 10 | PASI-M |
| | | EPA 6020 | RJS | 10 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | DMT | 20 | PASI-S |
| | | EPA 8270 | ATH | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | KMT | 1 | PASI-S |
| | | EPA 9060 | SRM1 | 1 | PASI-K |
| **253591002** | **MH 12 (6")** | EPA 8082 | DMT | 11 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | ATH | 3 | PASI-S |
| | | EPA 6020 | RJS | 10 | PASI-M |
| | | EPA 6020 | RJS | 10 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | DMT | 20 | PASI-S |
| | | EPA 8270 | ATH | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | KMT | 1 | PASI-S |
| | | EPA 9060 | SRM1 | 1 | PASI-K |
| **253591003** | **MH 12 (12")** | EPA 8082 | DMT | 11 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | ATH | 3 | PASI-S |
| | | EPA 6020 | RJS | 10 | PASI-M |
| | | EPA 6020 | RJS | 10 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | DMT | 20 | PASI-S |
| | | EPA 8270 | ATH | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | KMT | 1 | PASI-S |
| | | EPA 9060 | SRM1 | 1 | PASI-K |
| **253591004** | **MH3** | EPA 8082 | DMT | 11 | PASI-S |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# SAMPLE ANALYTE COUNT

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | ATH | 3 | PASI-S |
| | | EPA 6020 | RJS | 10 | PASI-M |
| | | EPA 6020 | RJS | 10 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | DMT | 20 | PASI-S |
| | | EPA 8270 | ATH | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | KMT | 1 | PASI-S |
| | | EPA 9060 | SRM1 | 1 | PASI-K |
| **253591005** | **SEP-001** | EPA 8082 | DMT | 11 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | ATH | 3 | PASI-S |
| | | EPA 6020 | RJS | 10 | PASI-M |
| | | EPA 6020 | RJS | 10 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | DMT | 20 | PASI-S |
| | | EPA 8270 | ATH | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | KMT | 1 | PASI-S |
| | | EPA 9060 | SRM1 | 1 | PASI-K |
| **253591006** | **CB-42** | EPA 8082 | DMT | 11 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | ATH | 3 | PASI-S |
| | | EPA 6020 | RJS | 10 | PASI-M |
| | | EPA 6020 | RJS | 10 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | DMT | 20 | PASI-S |
| | | EPA 8270 | ATH | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | KMT | 1 | PASI-S |
| | | EPA 9060 | SRM1 | 1 | PASI-K |
| **253591007** | **TB-1** | NWTPH-Gx | ATH | 3 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH 12 (4")** **Lab ID: 253591001** Collected: 04/27/10 06:35 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.047 | 0.013 | 1 | 04/30/10 14:15 | 05/10/10 00:47 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.047 | 0.015 | 1 | 04/30/10 14:15 | 05/10/10 00:47 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.047 | 0.021 | 1 | 04/30/10 14:15 | 05/10/10 00:47 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.047 | 0.017 | 1 | 04/30/10 14:15 | 05/10/10 00:47 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0095** | ug/L | 0.047 | 0.0095 | 1 | 04/30/10 14:15 | 05/10/10 00:47 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.047** | ug/L | 0.047 | 0.047 | 1 | 04/30/10 14:15 | 05/10/10 00:47 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.027** | ug/L | 0.047 | 0.027 | 1 | 04/30/10 14:15 | 05/10/10 00:47 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0027** | ug/L | 0.047 | 0.0027 | 1 | 04/30/10 14:15 | 05/10/10 00:47 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.047 | 0.024 | 1 | 04/30/10 14:15 | 05/10/10 00:47 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 84 | % | 64-120 | | 1 | 04/30/10 14:15 | 05/10/10 00:47 | 877-09-8 | |
| Decachlorobiphenyl (S) | 92 | % | 44-120 | | 1 | 04/30/10 14:15 | 05/10/10 00:47 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<35.6** | ug/L | 76.9 | 35.6 | 1 | 05/04/10 12:10 | 05/05/10 17:11 | | |
| Motor Oil Range SG | **117J** | ug/L | 385 | 58.7 | 1 | 05/04/10 12:10 | 05/05/10 17:11 | 64742-65-0 | |
| n-Octacosane (S) SG | 100 | % | 50-150 | | 1 | 05/04/10 12:10 | 05/05/10 17:11 | 630-02-4 | |
| o-Terphenyl (S) SG | 103 | % | 50-150 | | 1 | 05/04/10 12:10 | 05/05/10 17:11 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **15.1J** | ug/L | 50.0 | 13.4 | 1 | | 04/29/10 12:45 | | |
| a,a,a-Trifluorotoluene (S) | 94 | % | 50-150 | | 1 | | 04/29/10 12:45 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 88 | % | 50-150 | | 1 | | 04/29/10 12:45 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.094J** | ug/L | 0.50 | 0.062 | 1 | 05/07/10 20:19 | 05/08/10 16:44 | 7440-38-2 | |
| Barium | **5.9** | ug/L | 0.30 | 0.043 | 1 | 05/07/10 20:19 | 05/08/10 16:44 | 7440-39-3 | |
| Cadmium | **0.088** | ug/L | 0.080 | 0.020 | 1 | 05/07/10 20:19 | 05/08/10 16:44 | 7440-43-9 | B |
| Chromium | **0.49J** | ug/L | 0.50 | 0.24 | 1 | 05/07/10 20:19 | 05/08/10 16:44 | 7440-47-3 | |
| Copper | **2.9** | ug/L | 0.50 | 0.20 | 1 | 05/07/10 20:19 | 05/08/10 16:44 | 7440-50-8 | |
| Lead | **1.7** | ug/L | 0.10 | 0.020 | 1 | 05/07/10 20:19 | 05/08/10 16:44 | 7439-92-1 | B |
| Manganese | **15.7** | ug/L | 0.50 | 0.050 | 1 | 05/07/10 20:19 | 05/08/10 16:44 | 7439-96-5 | B |
| Selenium | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 05/07/10 20:19 | 05/08/10 16:44 | 7782-49-2 | |
| Silver | **0.13J** | ug/L | 0.50 | 0.071 | 1 | 05/07/10 20:19 | 05/08/10 16:44 | 7440-22-4 | |
| Zinc | **149** | ug/L | 5.0 | 1.3 | 1 | 05/07/10 20:19 | 05/08/10 16:44 | 7440-66-6 | B |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **<0.062** | ug/L | 0.50 | 0.062 | 1 | 05/06/10 14:31 | 05/07/10 05:22 | 7440-38-2 | |
| Barium, Dissolved | **5.3** | ug/L | 0.30 | 0.043 | 1 | 05/06/10 14:31 | 05/07/10 05:22 | 7440-39-3 | |
| Cadmium, Dissolved | **0.50** | ug/L | 0.080 | 0.020 | 1 | 05/06/10 14:31 | 05/07/10 05:22 | 7440-43-9 | |
| Chromium, Dissolved | **<0.24** | ug/L | 0.50 | 0.24 | 1 | 05/06/10 14:31 | 05/07/10 05:22 | 7440-47-3 | |
| Copper, Dissolved | **2.0** | ug/L | 0.50 | 0.20 | 1 | 05/06/10 14:31 | 05/07/10 05:22 | 7440-50-8 | |
| Lead, Dissolved | **0.14** | ug/L | 0.10 | 0.020 | 1 | 05/06/10 14:31 | 05/07/10 05:22 | 7439-92-1 | |
| Manganese, Dissolved | **10.2** | ug/L | 0.50 | 0.050 | 1 | 05/06/10 14:31 | 05/07/10 05:22 | 7439-96-5 | B |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 05/06/10 14:31 | 05/07/10 05:22 | 7782-49-2 | |
| Silver, Dissolved | **0.17J** | ug/L | 0.50 | 0.071 | 1 | 05/06/10 14:31 | 05/07/10 05:22 | 7440-22-4 | CH |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH 12 (4")** **Lab ID: 253591001** Collected: 04/27/10 06:35 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Zinc, Dissolved | **134** | ug/L | 5.0 | 1.3 | 1 | 05/06/10 14:31 | 05/07/10 05:22 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 | | Preparation Method: EPA 7470 | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 05/03/10 10:24 | 05/04/10 14:44 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 | | Preparation Method: EPA 7470 | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 05/03/10 10:24 | 05/04/10 15:09 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM | | Preparation Method: EPA 3510 | | | | | | |
| 1-Methylnaphthalene | **0.0082J** | ug/L | 0.014 | 0.0060 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 90-12-0 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 91-57-6 | |
| Acenaphthene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 83-32-9 | |
| Acenaphthylene | **<0.00068** | ug/L | 0.014 | 0.00068 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 208-96-8 | |
| Anthracene | **<0.0012** | ug/L | 0.014 | 0.0012 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 56-55-3 | |
| Benzo(a)pyrene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 50-32-8 | |
| Benzo(b)fluoranthene | **0.067** | ug/L | 0.014 | 0.0019 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 205-99-2 | |
| Benzo(g,h,i)perylene | **0.017** | ug/L | 0.014 | 0.0016 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 191-24-2 | |
| Benzo(k)fluoranthene | **0.011J** | ug/L | 0.014 | 0.00067 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 207-08-9 | |
| Chrysene | **0.011J** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 218-01-9 | |
| Dibenz(a,h)anthracene | **0.0079J** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 53-70-3 | |
| Fluoranthene | **0.014** | ug/L | 0.014 | 0.0018 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 206-44-0 | |
| Fluorene | **0.0053J** | ug/L | 0.014 | 0.0036 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 193-39-5 | |
| Naphthalene | **0.021** | ug/L | 0.014 | 0.0014 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 91-20-3 | |
| Phenanthrene | **0.019** | ug/L | 0.014 | 0.0036 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 85-01-8 | B |
| Pyrene | **0.012J** | ug/L | 0.014 | 0.0019 | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 129-00-0 | |
| 2-Fluorobiphenyl (S) | 87 | % | 40-106 | | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 321-60-8 | |
| Terphenyl-d14 (S) | 110 | % | 55-146 | | 1 | 04/29/10 11:40 | 05/11/10 00:42 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 | | Preparation Method: EPA 3520 | | | | | | |
| Butylbenzylphthalate | **11.2** | ug/L | 4.8 | 0.44 | 1 | 04/29/10 11:35 | 05/05/10 13:18 | 85-68-7 | |
| Di-n-butylphthalate | **<0.45** | ug/L | 4.8 | 0.45 | 1 | 04/29/10 11:35 | 05/05/10 13:18 | 84-74-2 | |
| Di-n-octylphthalate | **<0.48** | ug/L | 4.8 | 0.48 | 1 | 04/29/10 11:35 | 05/05/10 13:18 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.8 | 0.41 | 1 | 04/29/10 11:35 | 05/05/10 13:18 | 84-66-2 | |
| Dimethylphthalate | **<0.27** | ug/L | 4.8 | 0.27 | 1 | 04/29/10 11:35 | 05/05/10 13:18 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.96** | ug/L | 4.8 | 0.96 | 1 | 04/29/10 11:35 | 05/05/10 13:18 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 56 | % | 38-121 | | 1 | 04/29/10 11:35 | 05/05/10 13:18 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 50 | % | 40-110 | | 1 | 04/29/10 11:35 | 05/05/10 13:18 | 321-60-8 | |
| Terphenyl-d14 (S) | 62 | % | 26-130 | | 1 | 04/29/10 11:35 | 05/05/10 13:18 | 1718-51-0 | |
| Phenol-d6 (S) | 23 | % | 11-120 | | 1 | 04/29/10 11:35 | 05/05/10 13:18 | 13127-88-3 | |
| 2-Fluorophenol (S) | 31 | % | 20-120 | | 1 | 04/29/10 11:35 | 05/05/10 13:18 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 58 | % | 37-120 | | 1 | 04/29/10 11:35 | 05/05/10 13:18 | 118-79-6 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH 12 (4")** **Lab ID: 253591001** Collected: 04/27/10 06:35 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 12:48 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 12:48 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 12:48 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/29/10 12:48 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/29/10 12:48 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 12:48 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/29/10 12:48 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 12:48 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/29/10 12:48 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 12:48 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/29/10 12:48 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/29/10 12:48 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 12:48 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/29/10 12:48 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 12:48 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/29/10 12:48 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:48 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:48 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:48 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 12:48 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 12:48 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 12:48 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/29/10 12:48 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/29/10 12:48 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/29/10 12:48 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/29/10 12:48 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/29/10 12:48 | 108-10-1 | |
| Acetone | **1.6J** | ug/L | 5.0 | 0.75 | 1 | | 04/29/10 12:48 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 12:48 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:48 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/29/10 12:48 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 12:48 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/29/10 12:48 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/29/10 12:48 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:48 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/29/10 12:48 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 12:48 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 12:48 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 12:48 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 12:48 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 12:48 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/29/10 12:48 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/29/10 12:48 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 12:48 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 12:48 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 12:48 | 98-82-8 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH 12 (4")** **Lab ID: 253591001** Collected: 04/27/10 06:35 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:48 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/29/10 12:48 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 12:48 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 12:48 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 12:48 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/29/10 12:48 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 12:48 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/29/10 12:48 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/29/10 12:48 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/29/10 12:48 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/29/10 12:48 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/29/10 12:48 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/29/10 12:48 | 179601-23-1 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 12:48 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:48 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 12:48 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 12:48 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 12:48 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 12:48 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 12:48 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:48 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 97 | % | 80-120 | | 1 | | 04/29/10 12:48 | 460-00-4 | |
| Dibromofluoromethane (S) | 97 | % | 80-122 | | 1 | | 04/29/10 12:48 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 96 | % | 80-124 | | 1 | | 04/29/10 12:48 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 80-123 | | 1 | | 04/29/10 12:48 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **<2000** | ug/L | 2000 | 2000 | 1 | | 04/30/10 10:30 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **1.9** | mg/L | 1.0 | 0.37 | 1 | | 05/09/10 17:32 | 7440-44-0 | TP |

**Sample: MH 12 (6")** **Lab ID: 253591002** Collected: 04/27/10 07:00 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.048 | 0.013 | 1 | 04/30/10 14:15 | 05/10/10 01:58 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.048 | 0.015 | 1 | 04/30/10 14:15 | 05/10/10 01:58 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.048 | 0.021 | 1 | 04/30/10 14:15 | 05/10/10 01:58 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.048 | 0.017 | 1 | 04/30/10 14:15 | 05/10/10 01:58 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0095** | ug/L | 0.048 | 0.0095 | 1 | 04/30/10 14:15 | 05/10/10 01:58 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.048** | ug/L | 0.048 | 0.048 | 1 | 04/30/10 14:15 | 05/10/10 01:58 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.027** | ug/L | 0.048 | 0.027 | 1 | 04/30/10 14:15 | 05/10/10 01:58 | 11096-82-5 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH 12 (6")** **Lab ID: 253591002** Collected: 04/27/10 07:00 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1262 (Aroclor 1262) | **<0.0028** | ug/L | 0.048 | 0.0028 | 1 | 04/30/10 14:15 | 05/10/10 01:58 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.048 | 0.024 | 1 | 04/30/10 14:15 | 05/10/10 01:58 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 67 | % | 64-120 | | 1 | 04/30/10 14:15 | 05/10/10 01:58 | 877-09-8 | |
| Decachlorobiphenyl (S) | 72 | % | 44-120 | | 1 | 04/30/10 14:15 | 05/10/10 01:58 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<35.9** | ug/L | 77.7 | 35.9 | 1 | 05/04/10 12:10 | 05/05/10 17:27 | | |
| Motor Oil Range SG | **96.2J** | ug/L | 388 | 59.2 | 1 | 05/04/10 12:10 | 05/05/10 17:27 | 64742-65-0 | |
| n-Octacosane (S) SG | 98 | % | 50-150 | | 1 | 05/04/10 12:10 | 05/05/10 17:27 | 630-02-4 | |
| o-Terphenyl (S) SG | 102 | % | 50-150 | | 1 | 05/04/10 12:10 | 05/05/10 17:27 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **<13.4** | ug/L | 50.0 | 13.4 | 1 | | 04/29/10 13:10 | | |
| a,a,a-Trifluorotoluene (S) | 98 | % | 50-150 | | 1 | | 04/29/10 13:10 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 93 | % | 50-150 | | 1 | | 04/29/10 13:10 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.084J** | ug/L | 0.50 | 0.062 | 1 | 05/07/10 20:19 | 05/08/10 16:48 | 7440-38-2 | |
| Barium | **4.3** | ug/L | 0.30 | 0.043 | 1 | 05/07/10 20:19 | 05/08/10 16:48 | 7440-39-3 | |
| Cadmium | **0.040J** | ug/L | 0.080 | 0.020 | 1 | 05/07/10 20:19 | 05/08/10 16:48 | 7440-43-9 | B |
| Chromium | **0.36J** | ug/L | 0.50 | 0.24 | 1 | 05/07/10 20:19 | 05/08/10 16:48 | 7440-47-3 | |
| Copper | **3.3** | ug/L | 0.50 | 0.20 | 1 | 05/07/10 20:19 | 05/08/10 16:48 | 7440-50-8 | |
| Lead | **0.94** | ug/L | 0.10 | 0.020 | 1 | 05/07/10 20:19 | 05/08/10 16:48 | 7439-92-1 | B |
| Manganese | **2.5** | ug/L | 0.50 | 0.050 | 1 | 05/07/10 20:19 | 05/08/10 16:48 | 7439-96-5 | B |
| Selenium | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 05/07/10 20:19 | 05/08/10 16:48 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 05/07/10 20:19 | 05/08/10 16:48 | 7440-22-4 | |
| Zinc | **33.5** | ug/L | 5.0 | 1.3 | 1 | 05/07/10 20:19 | 05/08/10 16:48 | 7440-66-6 | B |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **0.11J** | ug/L | 0.50 | 0.062 | 1 | 05/06/10 14:31 | 05/07/10 05:35 | 7440-38-2 | |
| Barium, Dissolved | **4.5** | ug/L | 0.30 | 0.043 | 1 | 05/06/10 14:31 | 05/07/10 05:35 | 7440-39-3 | |
| Cadmium, Dissolved | **0.16** | ug/L | 0.080 | 0.020 | 1 | 05/06/10 14:31 | 05/07/10 05:35 | 7440-43-9 | |
| Chromium, Dissolved | **<0.24** | ug/L | 0.50 | 0.24 | 1 | 05/06/10 14:31 | 05/07/10 05:35 | 7440-47-3 | |
| Copper, Dissolved | **3.3** | ug/L | 0.50 | 0.20 | 1 | 05/06/10 14:31 | 05/07/10 05:35 | 7440-50-8 | |
| Lead, Dissolved | **0.18** | ug/L | 0.10 | 0.020 | 1 | 05/06/10 14:31 | 05/07/10 05:35 | 7439-92-1 | |
| Manganese, Dissolved | **0.47J** | ug/L | 0.50 | 0.050 | 1 | 05/06/10 14:31 | 05/07/10 05:35 | 7439-96-5 | B |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 05/06/10 14:31 | 05/07/10 05:35 | 7782-49-2 | |
| Silver, Dissolved | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 05/06/10 14:31 | 05/07/10 05:35 | 7440-22-4 | CH |
| Zinc, Dissolved | **35.2** | ug/L | 5.0 | 1.3 | 1 | 05/06/10 14:31 | 05/07/10 05:35 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.021J** | ug/L | 0.20 | 0.013 | 1 | 05/03/10 10:24 | 05/04/10 14:51 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 05/03/10 10:24 | 05/04/10 15:16 | 7439-97-6 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH 12 (6")** **Lab ID: 253591002** Collected: 04/27/10 07:00 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **0.011J** | ug/L | 0.014 | 0.0060 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 90-12-0 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 91-57-6 | |
| Acenaphthene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 83-32-9 | |
| Acenaphthylene | **<0.00068** | ug/L | 0.014 | 0.00068 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 208-96-8 | |
| Anthracene | **<0.0012** | ug/L | 0.014 | 0.0012 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 56-55-3 | |
| Benzo(a)pyrene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 50-32-8 | |
| Benzo(b)fluoranthene | **<0.0019** | ug/L | 0.014 | 0.0019 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 205-99-2 | |
| Benzo(g,h,i)perylene | **<0.0016** | ug/L | 0.014 | 0.0016 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 191-24-2 | |
| Benzo(k)fluoranthene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 207-08-9 | |
| Chrysene | **0.0043J** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 53-70-3 | |
| Fluoranthene | **0.010J** | ug/L | 0.014 | 0.0018 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 206-44-0 | |
| Fluorene | **0.0096J** | ug/L | 0.014 | 0.0036 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 193-39-5 | |
| Naphthalene | **0.023** | ug/L | 0.014 | 0.0014 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 91-20-3 | |
| Phenanthrene | **0.026** | ug/L | 0.014 | 0.0036 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 85-01-8 | B |
| Pyrene | **0.0066J** | ug/L | 0.014 | 0.0019 | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 129-00-0 | |
| 2-Fluorobiphenyl (S) | 75 | % | 40-106 | | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 321-60-8 | |
| Terphenyl-d14 (S) | 100 | % | 55-146 | | 1 | 04/29/10 11:40 | 05/11/10 01:47 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **<0.44** | ug/L | 4.8 | 0.44 | 1 | 04/29/10 11:35 | 05/05/10 13:41 | 85-68-7 | |
| Di-n-butylphthalate | **<0.45** | ug/L | 4.8 | 0.45 | 1 | 04/29/10 11:35 | 05/05/10 13:41 | 84-74-2 | |
| Di-n-octylphthalate | **<0.48** | ug/L | 4.8 | 0.48 | 1 | 04/29/10 11:35 | 05/05/10 13:41 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.8 | 0.41 | 1 | 04/29/10 11:35 | 05/05/10 13:41 | 84-66-2 | |
| Dimethylphthalate | **<0.27** | ug/L | 4.8 | 0.27 | 1 | 04/29/10 11:35 | 05/05/10 13:41 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.95** | ug/L | 4.8 | 0.95 | 1 | 04/29/10 11:35 | 05/05/10 13:41 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 62 | % | 38-121 | | 1 | 04/29/10 11:35 | 05/05/10 13:41 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 55 | % | 40-110 | | 1 | 04/29/10 11:35 | 05/05/10 13:41 | 321-60-8 | |
| Terphenyl-d14 (S) | 67 | % | 26-130 | | 1 | 04/29/10 11:35 | 05/05/10 13:41 | 1718-51-0 | |
| Phenol-d6 (S) | 27 | % | 11-120 | | 1 | 04/29/10 11:35 | 05/05/10 13:41 | 13127-88-3 | |
| 2-Fluorophenol (S) | 40 | % | 20-120 | | 1 | 04/29/10 11:35 | 05/05/10 13:41 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 66 | % | 37-120 | | 1 | 04/29/10 11:35 | 05/05/10 13:41 | 118-79-6 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 13:11 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:11 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 13:11 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/29/10 13:11 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/29/10 13:11 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 13:11 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/29/10 13:11 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 13:11 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/29/10 13:11 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 13:11 | 120-82-1 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH 12 (6")** **Lab ID: 253591002** Collected: 04/27/10 07:00 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/29/10 13:11 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/29/10 13:11 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:11 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/29/10 13:11 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 13:11 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/29/10 13:11 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:11 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:11 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:11 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 13:11 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:11 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 13:11 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/29/10 13:11 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/29/10 13:11 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/29/10 13:11 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/29/10 13:11 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/29/10 13:11 | 108-10-1 | |
| Acetone | **2.5J** | ug/L | 5.0 | 0.75 | 1 | | 04/29/10 13:11 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 13:11 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:11 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/29/10 13:11 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 13:11 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/29/10 13:11 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/29/10 13:11 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:11 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/29/10 13:11 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 13:11 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 13:11 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 13:11 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:11 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 13:11 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/29/10 13:11 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/29/10 13:11 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:11 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 13:11 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 13:11 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:11 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/29/10 13:11 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 13:11 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 13:11 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 13:11 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/29/10 13:11 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 13:11 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/29/10 13:11 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/29/10 13:11 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/29/10 13:11 | 1330-20-7 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH 12 (6")** **Lab ID: 253591002** Collected: 04/27/10 07:00 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/29/10 13:11 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/29/10 13:11 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/29/10 13:11 | 179601-23-1 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 13:11 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:11 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 13:11 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 13:11 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 13:11 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 13:11 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 13:11 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:11 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 97 | % | 80-120 | | 1 | | 04/29/10 13:11 | 460-00-4 | |
| Dibromofluoromethane (S) | 98 | % | 80-122 | | 1 | | 04/29/10 13:11 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 80-124 | | 1 | | 04/29/10 13:11 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 80-123 | | 1 | | 04/29/10 13:11 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **<2000** | ug/L | 2000 | 2000 | 1 | | 04/30/10 10:30 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **3.2** | mg/L | 1.0 | 0.37 | 1 | | 05/09/10 17:45 | 7440-44-0 | TP |

**Sample: MH 12 (12")** **Lab ID: 253591003** Collected: 04/27/10 07:40 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.048 | 0.013 | 1 | 04/30/10 14:15 | 05/10/10 03:50 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.048 | 0.015 | 1 | 04/30/10 14:15 | 05/10/10 03:50 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.048 | 0.021 | 1 | 04/30/10 14:15 | 05/10/10 03:50 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.048 | 0.017 | 1 | 04/30/10 14:15 | 05/10/10 03:50 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0095** | ug/L | 0.048 | 0.0095 | 1 | 04/30/10 14:15 | 05/10/10 03:50 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.048** | ug/L | 0.048 | 0.048 | 1 | 04/30/10 14:15 | 05/10/10 03:50 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.027** | ug/L | 0.048 | 0.027 | 1 | 04/30/10 14:15 | 05/10/10 03:50 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0028** | ug/L | 0.048 | 0.0028 | 1 | 04/30/10 14:15 | 05/10/10 03:50 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.048 | 0.024 | 1 | 04/30/10 14:15 | 05/10/10 03:50 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 68 | % | 64-120 | | 1 | 04/30/10 14:15 | 05/10/10 03:50 | 877-09-8 | |
| Decachlorobiphenyl (S) | 71 | % | 44-120 | | 1 | 04/30/10 14:15 | 05/10/10 03:50 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **55.8J** | ug/L | 76.9 | 35.6 | 1 | 05/04/10 12:10 | 05/05/10 17:43 | | |
| Motor Oil Range SG | **156J** | ug/L | 385 | 58.7 | 1 | 05/04/10 12:10 | 05/05/10 17:43 | 64742-65-0 | |
| n-Octacosane (S) SG | 98 | % | 50-150 | | 1 | 05/04/10 12:10 | 05/05/10 17:43 | 630-02-4 | |
| o-Terphenyl (S) SG | 99 | % | 50-150 | | 1 | 05/04/10 12:10 | 05/05/10 17:43 | 84-15-1 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH 12 (12")** **Lab ID: 253591003** Collected: 04/27/10 07:40 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **<13.4** | ug/L | 50.0 | 13.4 | 1 | | 04/29/10 13:35 | | |
| a,a,a-Trifluorotoluene (S) | 102 | % | 50-150 | | 1 | | 04/29/10 13:35 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 101 | % | 50-150 | | 1 | | 04/29/10 13:35 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.76** | ug/L | 0.50 | 0.062 | 1 | 05/07/10 20:19 | 05/08/10 16:52 | 7440-38-2 | |
| Barium | **16.5** | ug/L | 0.30 | 0.043 | 1 | 05/07/10 20:19 | 05/08/10 16:52 | 7440-39-3 | |
| Cadmium | **0.042J** | ug/L | 0.080 | 0.020 | 1 | 05/07/10 20:19 | 05/08/10 16:52 | 7440-43-9 | B |
| Chromium | **0.72** | ug/L | 0.50 | 0.24 | 1 | 05/07/10 20:19 | 05/08/10 16:52 | 7440-47-3 | |
| Copper | **4.1** | ug/L | 0.50 | 0.20 | 1 | 05/07/10 20:19 | 05/08/10 16:52 | 7440-50-8 | |
| Lead | **2.3** | ug/L | 0.10 | 0.020 | 1 | 05/07/10 20:19 | 05/08/10 16:52 | 7439-92-1 | B |
| Manganese | **33.5** | ug/L | 0.50 | 0.050 | 1 | 05/07/10 20:19 | 05/08/10 16:52 | 7439-96-5 | B |
| Selenium | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 05/07/10 20:19 | 05/08/10 16:52 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 05/07/10 20:19 | 05/08/10 16:52 | 7440-22-4 | |
| Zinc | **54.5** | ug/L | 5.0 | 1.3 | 1 | 05/07/10 20:19 | 05/08/10 16:52 | 7440-66-6 | B |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **0.30J** | ug/L | 0.50 | 0.062 | 1 | 05/06/10 14:31 | 05/07/10 05:39 | 7440-38-2 | |
| Barium, Dissolved | **12.0** | ug/L | 0.30 | 0.043 | 1 | 05/06/10 14:31 | 05/07/10 05:39 | 7440-39-3 | |
| Cadmium, Dissolved | **0.038J** | ug/L | 0.080 | 0.020 | 1 | 05/06/10 14:31 | 05/07/10 05:39 | 7440-43-9 | |
| Chromium, Dissolved | **<0.24** | ug/L | 0.50 | 0.24 | 1 | 05/06/10 14:31 | 05/07/10 05:39 | 7440-47-3 | |
| Copper, Dissolved | **2.6** | ug/L | 0.50 | 0.20 | 1 | 05/06/10 14:31 | 05/07/10 05:39 | 7440-50-8 | |
| Lead, Dissolved | **0.071J** | ug/L | 0.10 | 0.020 | 1 | 05/06/10 14:31 | 05/07/10 05:39 | 7439-92-1 | |
| Manganese, Dissolved | **12.5** | ug/L | 0.50 | 0.050 | 1 | 05/06/10 14:31 | 05/07/10 05:39 | 7439-96-5 | B |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 05/06/10 14:31 | 05/07/10 05:39 | 7782-49-2 | |
| Silver, Dissolved | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 05/06/10 14:31 | 05/07/10 05:39 | 7440-22-4 | CH |
| Zinc, Dissolved | **37.8** | ug/L | 5.0 | 1.3 | 1 | 05/06/10 14:31 | 05/07/10 05:39 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 05/03/10 10:24 | 05/04/10 14:53 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 05/03/10 10:24 | 05/04/10 15:18 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **0.010J** | ug/L | 0.014 | 0.0060 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 90-12-0 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 91-57-6 | |
| Acenaphthene | **0.0043J** | ug/L | 0.014 | 0.00066 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 83-32-9 | |
| Acenaphthylene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 208-96-8 | |
| Anthracene | **0.0034J** | ug/L | 0.014 | 0.0012 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 56-55-3 | |
| Benzo(a)pyrene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 50-32-8 | |
| Benzo(b)fluoranthene | **0.068** | ug/L | 0.014 | 0.0019 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 205-99-2 | |
| Benzo(g,h,i)perylene | **0.015** | ug/L | 0.014 | 0.0016 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 191-24-2 | |
| Benzo(k)fluoranthene | **0.0039J** | ug/L | 0.014 | 0.00066 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 207-08-9 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH 12 (12")** **Lab ID: 253591003** Collected: 04/27/10 07:40 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| Chrysene | **0.048** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 53-70-3 | |
| Fluoranthene | **0.016** | ug/L | 0.014 | 0.0018 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 206-44-0 | |
| Fluorene | **0.016** | ug/L | 0.014 | 0.0036 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 193-39-5 | |
| Naphthalene | **0.0053J** | ug/L | 0.014 | 0.0014 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 91-20-3 | |
| Phenanthrene | **0.018** | ug/L | 0.014 | 0.0036 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 85-01-8 | B |
| Pyrene | **0.037** | ug/L | 0.014 | 0.0019 | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 129-00-0 | |
| 2-Fluorobiphenyl (S) | 69 | % | 40-106 | | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 321-60-8 | |
| Terphenyl-d14 (S) | 99 | % | 55-146 | | 1 | 04/29/10 11:40 | 05/11/10 02:04 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **<0.44** | ug/L | 4.8 | 0.44 | 1 | 04/29/10 11:35 | 05/05/10 15:33 | 85-68-7 | |
| Di-n-butylphthalate | **<0.45** | ug/L | 4.8 | 0.45 | 1 | 04/29/10 11:35 | 05/05/10 15:33 | 84-74-2 | |
| Di-n-octylphthalate | **<0.48** | ug/L | 4.8 | 0.48 | 1 | 04/29/10 11:35 | 05/05/10 15:33 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.8 | 0.41 | 1 | 04/29/10 11:35 | 05/05/10 15:33 | 84-66-2 | |
| Dimethylphthalate | **<0.27** | ug/L | 4.8 | 0.27 | 1 | 04/29/10 11:35 | 05/05/10 15:33 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **1.8J** | ug/L | 4.8 | 0.95 | 1 | 04/29/10 11:35 | 05/05/10 15:33 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 73 | % | 38-121 | | 1 | 04/29/10 11:35 | 05/05/10 15:33 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 72 | % | 40-110 | | 1 | 04/29/10 11:35 | 05/05/10 15:33 | 321-60-8 | |
| Terphenyl-d14 (S) | 89 | % | 26-130 | | 1 | 04/29/10 11:35 | 05/05/10 15:33 | 1718-51-0 | |
| Phenol-d6 (S) | 30 | % | 11-120 | | 1 | 04/29/10 11:35 | 05/05/10 15:33 | 13127-88-3 | |
| 2-Fluorophenol (S) | 44 | % | 20-120 | | 1 | 04/29/10 11:35 | 05/05/10 15:33 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 91 | % | 37-120 | | 1 | 04/29/10 11:35 | 05/05/10 15:33 | 118-79-6 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 13:33 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:33 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 13:33 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/29/10 13:33 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/29/10 13:33 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 13:33 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/29/10 13:33 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 13:33 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/29/10 13:33 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 13:33 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/29/10 13:33 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/29/10 13:33 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:33 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/29/10 13:33 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 13:33 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/29/10 13:33 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:33 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:33 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:33 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 13:33 | 142-28-9 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH 12 (12")** **Lab ID: 253591003** Collected: 04/27/10 07:40 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:33 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 13:33 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/29/10 13:33 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/29/10 13:33 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/29/10 13:33 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/29/10 13:33 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/29/10 13:33 | 108-10-1 | |
| Acetone | **2.1J** | ug/L | 5.0 | 0.75 | 1 | | 04/29/10 13:33 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 13:33 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:33 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/29/10 13:33 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 13:33 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/29/10 13:33 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/29/10 13:33 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:33 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/29/10 13:33 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 13:33 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 13:33 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 13:33 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:33 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 13:33 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/29/10 13:33 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/29/10 13:33 | 75-71-8 | |
| Ethylbenzene | **0.34J** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:33 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 13:33 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 13:33 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:33 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/29/10 13:33 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 13:33 | 91-20-3 | |
| Styrene | **0.10J** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 13:33 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 13:33 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/29/10 13:33 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 13:33 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/29/10 13:33 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/29/10 13:33 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/29/10 13:33 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/29/10 13:33 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/29/10 13:33 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/29/10 13:33 | 179601-23-1 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 13:33 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:33 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 13:33 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 13:33 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 13:33 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 13:33 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 13:33 | 156-60-5 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH 12 (12")** **Lab ID: 253591003** Collected: 04/27/10 07:40 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:33 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 99 | % | 80-120 | | 1 | | 04/29/10 13:33 | 460-00-4 | |
| Dibromofluoromethane (S) | 94 | % | 80-122 | | 1 | | 04/29/10 13:33 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 80-124 | | 1 | | 04/29/10 13:33 | 17060-07-0 | |
| Toluene-d8 (S) | 103 | % | 80-123 | | 1 | | 04/29/10 13:33 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **10000** | ug/L | 2000 | 2000 | 1 | | 04/30/10 10:30 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **3.7** | mg/L | 1.0 | 0.37 | 1 | | 05/09/10 17:52 | 7440-44-0 | TP |

**Sample: MH3** **Lab ID: 253591004** Collected: 04/27/10 08:45 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.048 | 0.013 | 1 | 04/30/10 14:15 | 05/10/10 05:02 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.048 | 0.015 | 1 | 04/30/10 14:15 | 05/10/10 05:02 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.048 | 0.021 | 1 | 04/30/10 14:15 | 05/10/10 05:02 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.048 | 0.017 | 1 | 04/30/10 14:15 | 05/10/10 05:02 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0095** | ug/L | 0.048 | 0.0095 | 1 | 04/30/10 14:15 | 05/10/10 05:02 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.048** | ug/L | 0.048 | 0.048 | 1 | 04/30/10 14:15 | 05/10/10 05:02 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.027** | ug/L | 0.048 | 0.027 | 1 | 04/30/10 14:15 | 05/10/10 05:02 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0028** | ug/L | 0.048 | 0.0028 | 1 | 04/30/10 14:15 | 05/10/10 05:02 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.048 | 0.024 | 1 | 04/30/10 14:15 | 05/10/10 05:02 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 65 | % | 64-120 | | 1 | 04/30/10 14:15 | 05/10/10 05:02 | 877-09-8 | |
| Decachlorobiphenyl (S) | 80 | % | 44-120 | | 1 | 04/30/10 14:15 | 05/10/10 05:02 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<35.6** | ug/L | 76.9 | 35.6 | 1 | 05/04/10 12:10 | 05/05/10 17:59 | | |
| Motor Oil Range SG | **89.2J** | ug/L | 385 | 58.7 | 1 | 05/04/10 12:10 | 05/05/10 17:59 | 64742-65-0 | |
| n-Octacosane (S) SG | 96 | % | 50-150 | | 1 | 05/04/10 12:10 | 05/05/10 17:59 | 630-02-4 | |
| o-Terphenyl (S) SG | 95 | % | 50-150 | | 1 | 05/04/10 12:10 | 05/05/10 17:59 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **<13.4** | ug/L | 50.0 | 13.4 | 1 | | 04/29/10 13:59 | | |
| a,a,a-Trifluorotoluene (S) | 101 | % | 50-150 | | 1 | | 04/29/10 13:59 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 98 | % | 50-150 | | 1 | | 04/29/10 13:59 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **1.2** | ug/L | 0.50 | 0.062 | 1 | 05/07/10 20:19 | 05/08/10 16:56 | 7440-38-2 | |
| Barium | **3.6** | ug/L | 0.30 | 0.043 | 1 | 05/07/10 20:19 | 05/08/10 16:56 | 7440-39-3 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH3** **Lab ID: 253591004** Collected: 04/27/10 08:45 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Cadmium | **<0.020** | ug/L | 0.080 | 0.020 | 1 | 05/07/10 20:19 | 05/08/10 16:56 | 7440-43-9 | |
| Chromium | **0.68** | ug/L | 0.50 | 0.24 | 1 | 05/07/10 20:19 | 05/08/10 16:56 | 7440-47-3 | |
| Copper | **3.8** | ug/L | 0.50 | 0.20 | 1 | 05/07/10 20:19 | 05/08/10 16:56 | 7440-50-8 | |
| Lead | **1.1** | ug/L | 0.10 | 0.020 | 1 | 05/07/10 20:19 | 05/08/10 16:56 | 7439-92-1 | B |
| Manganese | **2.2** | ug/L | 0.50 | 0.050 | 1 | 05/07/10 20:19 | 05/08/10 16:56 | 7439-96-5 | B |
| Selenium | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 05/07/10 20:19 | 05/08/10 16:56 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 05/07/10 20:19 | 05/08/10 16:56 | 7440-22-4 | |
| Zinc | **14.6** | ug/L | 5.0 | 1.3 | 1 | 05/07/10 20:19 | 05/08/10 16:56 | 7440-66-6 | B |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **1.1** | ug/L | 0.50 | 0.062 | 1 | 05/06/10 14:31 | 05/07/10 05:43 | 7440-38-2 | |
| Barium, Dissolved | **3.6** | ug/L | 0.30 | 0.043 | 1 | 05/06/10 14:31 | 05/07/10 05:43 | 7440-39-3 | |
| Cadmium, Dissolved | **<0.020** | ug/L | 0.080 | 0.020 | 1 | 05/06/10 14:31 | 05/07/10 05:43 | 7440-43-9 | |
| Chromium, Dissolved | **0.49J** | ug/L | 0.50 | 0.24 | 1 | 05/06/10 14:31 | 05/07/10 05:43 | 7440-47-3 | |
| Copper, Dissolved | **2.6** | ug/L | 0.50 | 0.20 | 1 | 05/06/10 14:31 | 05/07/10 05:43 | 7440-50-8 | |
| Lead, Dissolved | **0.14** | ug/L | 0.10 | 0.020 | 1 | 05/06/10 14:31 | 05/07/10 05:43 | 7439-92-1 | |
| Manganese, Dissolved | **0.47J** | ug/L | 0.50 | 0.050 | 1 | 05/06/10 14:31 | 05/07/10 05:43 | 7439-96-5 | B |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 05/06/10 14:31 | 05/07/10 05:43 | 7782-49-2 | |
| Silver, Dissolved | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 05/06/10 14:31 | 05/07/10 05:43 | 7440-22-4 | CH |
| Zinc, Dissolved | **4.2J** | ug/L | 5.0 | 1.3 | 1 | 05/06/10 14:31 | 05/07/10 05:43 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 05/03/10 10:24 | 05/04/10 14:55 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 05/03/10 10:24 | 05/04/10 15:20 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **<0.0060** | ug/L | 0.014 | 0.0060 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 90-12-0 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 91-57-6 | |
| Acenaphthene | **0.0017J** | ug/L | 0.014 | 0.00066 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 83-32-9 | |
| Acenaphthylene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 208-96-8 | |
| Anthracene | **<0.0012** | ug/L | 0.014 | 0.0012 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 56-55-3 | |
| Benzo(a)pyrene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 50-32-8 | |
| Benzo(b)fluoranthene | **<0.0019** | ug/L | 0.014 | 0.0019 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 205-99-2 | |
| Benzo(g,h,i)perylene | **<0.0016** | ug/L | 0.014 | 0.0016 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 191-24-2 | |
| Benzo(k)fluoranthene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 207-08-9 | |
| Chrysene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 53-70-3 | |
| Fluoranthene | **0.0036J** | ug/L | 0.014 | 0.0018 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 206-44-0 | |
| Fluorene | **<0.0036** | ug/L | 0.014 | 0.0036 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 193-39-5 | |
| Naphthalene | **0.0050J** | ug/L | 0.014 | 0.0014 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 91-20-3 | |
| Phenanthrene | **0.0071J** | ug/L | 0.014 | 0.0036 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 85-01-8 | B |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH3** **Lab ID: 253591004** Collected: 04/27/10 08:45 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| Pyrene | **0.0059J** | ug/L | 0.014 | 0.0019 | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 129-00-0 | |
| 2-Fluorobiphenyl (S) | 63 | % | 40-106 | | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 321-60-8 | |
| Terphenyl-d14 (S) | 104 | % | 55-146 | | 1 | 04/29/10 11:40 | 05/11/10 00:58 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **<0.44** | ug/L | 4.7 | 0.44 | 1 | 04/29/10 11:35 | 05/05/10 14:26 | 85-68-7 | |
| Di-n-butylphthalate | **<0.45** | ug/L | 4.7 | 0.45 | 1 | 04/29/10 11:35 | 05/05/10 14:26 | 84-74-2 | |
| Di-n-octylphthalate | **<0.47** | ug/L | 4.7 | 0.47 | 1 | 04/29/10 11:35 | 05/05/10 14:26 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.7 | 0.41 | 1 | 04/29/10 11:35 | 05/05/10 14:26 | 84-66-2 | |
| Dimethylphthalate | **<0.27** | ug/L | 4.7 | 0.27 | 1 | 04/29/10 11:35 | 05/05/10 14:26 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.95** | ug/L | 4.7 | 0.95 | 1 | 04/29/10 11:35 | 05/05/10 14:26 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 48 | % | 38-121 | | 1 | 04/29/10 11:35 | 05/05/10 14:26 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 43 | % | 40-110 | | 1 | 04/29/10 11:35 | 05/05/10 14:26 | 321-60-8 | |
| Terphenyl-d14 (S) | 63 | % | 26-130 | | 1 | 04/29/10 11:35 | 05/05/10 14:26 | 1718-51-0 | |
| Phenol-d6 (S) | 20 | % | 11-120 | | 1 | 04/29/10 11:35 | 05/05/10 14:26 | 13127-88-3 | |
| 2-Fluorophenol (S) | 29 | % | 20-120 | | 1 | 04/29/10 11:35 | 05/05/10 14:26 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 52 | % | 37-120 | | 1 | 04/29/10 11:35 | 05/05/10 14:26 | 118-79-6 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 13:56 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:56 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 13:56 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/29/10 13:56 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/29/10 13:56 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 13:56 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/29/10 13:56 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 13:56 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/29/10 13:56 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 13:56 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/29/10 13:56 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/29/10 13:56 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:56 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/29/10 13:56 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 13:56 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/29/10 13:56 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:56 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:56 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:56 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 13:56 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:56 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 13:56 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/29/10 13:56 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/29/10 13:56 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/29/10 13:56 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/29/10 13:56 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/29/10 13:56 | 108-10-1 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH3** **Lab ID: 253591004** Collected: 04/27/10 08:45 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Acetone | **0.81J** | ug/L | 5.0 | 0.75 | 1 | | 04/29/10 13:56 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 13:56 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:56 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/29/10 13:56 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 13:56 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/29/10 13:56 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/29/10 13:56 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:56 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/29/10 13:56 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 13:56 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 13:56 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 13:56 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:56 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 13:56 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/29/10 13:56 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/29/10 13:56 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 13:56 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 13:56 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 13:56 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:56 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/29/10 13:56 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 13:56 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 13:56 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 13:56 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/29/10 13:56 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 13:56 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/29/10 13:56 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/29/10 13:56 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/29/10 13:56 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/29/10 13:56 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/29/10 13:56 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/29/10 13:56 | 179601-23-1 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 13:56 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:56 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 13:56 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 13:56 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 13:56 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 13:56 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 13:56 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 13:56 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 99 | % | 80-120 | | 1 | | 04/29/10 13:56 | 460-00-4 | |
| Dibromofluoromethane (S) | 96 | % | 80-122 | | 1 | | 04/29/10 13:56 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 80-124 | | 1 | | 04/29/10 13:56 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 80-123 | | 1 | | 04/29/10 13:56 | 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.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: MH3** **Lab ID: 253591004** Collected: 04/27/10 08:45 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **<2000** | ug/L | 2000 | 2000 | 1 | | 04/30/10 10:30 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **0.93J** | mg/L | 1.0 | 0.37 | 1 | | 05/09/10 17:58 | 7440-44-0 | TP |

**Sample: SEP-001** **Lab ID: 253591005** Collected: 04/27/10 09:40 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.048 | 0.013 | 1 | 04/30/10 14:15 | 05/10/10 06:13 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.048 | 0.015 | 1 | 04/30/10 14:15 | 05/10/10 06:13 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.048 | 0.021 | 1 | 04/30/10 14:15 | 05/10/10 06:13 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.048 | 0.017 | 1 | 04/30/10 14:15 | 05/10/10 06:13 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0096** | ug/L | 0.048 | 0.0096 | 1 | 04/30/10 14:15 | 05/10/10 06:13 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.048** | ug/L | 0.048 | 0.048 | 1 | 04/30/10 14:15 | 05/10/10 06:13 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.027** | ug/L | 0.048 | 0.027 | 1 | 04/30/10 14:15 | 05/10/10 06:13 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0028** | ug/L | 0.048 | 0.0028 | 1 | 04/30/10 14:15 | 05/10/10 06:13 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.048 | 0.024 | 1 | 04/30/10 14:15 | 05/10/10 06:13 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 69 | % | 64-120 | | 1 | 04/30/10 14:15 | 05/10/10 06:13 | 877-09-8 | |
| Decachlorobiphenyl (S) | 70 | % | 44-120 | | 1 | 04/30/10 14:15 | 05/10/10 06:13 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<35.6** | ug/L | 76.9 | 35.6 | 1 | 05/04/10 12:10 | 05/05/10 18:16 | | |
| Motor Oil Range SG | **124J** | ug/L | 385 | 58.7 | 1 | 05/04/10 12:10 | 05/05/10 18:16 | 64742-65-0 | |
| n-Octacosane (S) SG | 89 | % | 50-150 | | 1 | 05/04/10 12:10 | 05/05/10 18:16 | 630-02-4 | |
| o-Terphenyl (S) SG | 92 | % | 50-150 | | 1 | 05/04/10 12:10 | 05/05/10 18:16 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **17.8J** | ug/L | 50.0 | 13.4 | 1 | | 04/29/10 14:24 | | |
| a,a,a-Trifluorotoluene (S) | 101 | % | 50-150 | | 1 | | 04/29/10 14:24 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 93 | % | 50-150 | | 1 | | 04/29/10 14:24 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.35J** | ug/L | 0.50 | 0.062 | 1 | 05/07/10 20:19 | 05/08/10 17:00 | 7440-38-2 | |
| Barium | **5.8** | ug/L | 0.30 | 0.043 | 1 | 05/07/10 20:19 | 05/08/10 17:00 | 7440-39-3 | |
| Cadmium | **0.13** | ug/L | 0.080 | 0.020 | 1 | 05/07/10 20:19 | 05/08/10 17:00 | 7440-43-9 | B |
| Chromium | **0.82** | ug/L | 0.50 | 0.24 | 1 | 05/07/10 20:19 | 05/08/10 17:00 | 7440-47-3 | |
| Copper | **4.0** | ug/L | 0.50 | 0.20 | 1 | 05/07/10 20:19 | 05/08/10 17:00 | 7440-50-8 | |
| Lead | **1.9** | ug/L | 0.10 | 0.020 | 1 | 05/07/10 20:19 | 05/08/10 17:00 | 7439-92-1 | B |
| Manganese | **22.0** | ug/L | 0.50 | 0.050 | 1 | 05/07/10 20:19 | 05/08/10 17:00 | 7439-96-5 | B |
| Selenium | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 05/07/10 20:19 | 05/08/10 17:00 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 05/07/10 20:19 | 05/08/10 17:00 | 7440-22-4 | |
| Zinc | **65.0** | ug/L | 5.0 | 1.3 | 1 | 05/07/10 20:19 | 05/08/10 17:00 | 7440-66-6 | B |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: SEP-001** **Lab ID: 253591005** Collected: 04/27/10 09:40 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **0.19J** | ug/L | 0.50 | 0.062 | 1 | 05/06/10 14:31 | 05/07/10 06:00 | 7440-38-2 | |
| Barium, Dissolved | **4.0** | ug/L | 0.30 | 0.043 | 1 | 05/06/10 14:31 | 05/07/10 06:00 | 7440-39-3 | |
| Cadmium, Dissolved | **0.052J** | ug/L | 0.080 | 0.020 | 1 | 05/06/10 14:31 | 05/07/10 06:00 | 7440-43-9 | |
| Chromium, Dissolved | **0.44J** | ug/L | 0.50 | 0.24 | 1 | 05/06/10 14:31 | 05/07/10 06:00 | 7440-47-3 | |
| Copper, Dissolved | **2.5** | ug/L | 0.50 | 0.20 | 1 | 05/06/10 14:31 | 05/07/10 06:00 | 7440-50-8 | |
| Lead, Dissolved | **0.060J** | ug/L | 0.10 | 0.020 | 1 | 05/06/10 14:31 | 05/07/10 06:00 | 7439-92-1 | |
| Manganese, Dissolved | **0.57** | ug/L | 0.50 | 0.050 | 1 | 05/06/10 14:31 | 05/07/10 06:00 | 7439-96-5 | B |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 05/06/10 14:31 | 05/07/10 06:00 | 7782-49-2 | |
| Silver, Dissolved | **0.10J** | ug/L | 0.50 | 0.071 | 1 | 05/06/10 14:31 | 05/07/10 06:00 | 7440-22-4 | CH |
| Zinc, Dissolved | **37.6** | ug/L | 5.0 | 1.3 | 1 | 05/06/10 14:31 | 05/07/10 06:00 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 05/03/10 10:24 | 05/04/10 14:57 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 05/03/10 10:24 | 05/04/10 15:26 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **0.012J** | ug/L | 0.014 | 0.0060 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 90-12-0 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 91-57-6 | |
| Acenaphthene | **0.012J** | ug/L | 0.014 | 0.00066 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 83-32-9 | |
| Acenaphthylene | **0.011J** | ug/L | 0.014 | 0.00067 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 208-96-8 | |
| Anthracene | **0.0086J** | ug/L | 0.014 | 0.0012 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 56-55-3 | |
| Benzo(a)pyrene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 50-32-8 | |
| Benzo(b)fluoranthene | **0.062** | ug/L | 0.014 | 0.0019 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 205-99-2 | |
| Benzo(g,h,i)perylene | **0.0058J** | ug/L | 0.014 | 0.0016 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 191-24-2 | |
| Benzo(k)fluoranthene | **0.0048J** | ug/L | 0.014 | 0.00066 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 207-08-9 | |
| Chrysene | **0.0097J** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 53-70-3 | |
| Fluoranthene | **0.015** | ug/L | 0.014 | 0.0018 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 206-44-0 | |
| Fluorene | **0.014** | ug/L | 0.014 | 0.0036 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 193-39-5 | |
| Naphthalene | **0.029** | ug/L | 0.014 | 0.0014 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 91-20-3 | |
| Phenanthrene | **0.022** | ug/L | 0.014 | 0.0036 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 85-01-8 | B |
| Pyrene | **0.014** | ug/L | 0.014 | 0.0019 | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 129-00-0 | |
| 2-Fluorobiphenyl (S) | 67 | % | 40-106 | | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 321-60-8 | |
| Terphenyl-d14 (S) | 94 | % | 55-146 | | 1 | 04/29/10 11:40 | 05/11/10 01:14 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **<0.44** | ug/L | 4.7 | 0.44 | 1 | 04/29/10 11:35 | 05/05/10 14:48 | 85-68-7 | |
| Di-n-butylphthalate | **<0.45** | ug/L | 4.7 | 0.45 | 1 | 04/29/10 11:35 | 05/05/10 14:48 | 84-74-2 | |
| Di-n-octylphthalate | **<0.47** | ug/L | 4.7 | 0.47 | 1 | 04/29/10 11:35 | 05/05/10 14:48 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.7 | 0.41 | 1 | 04/29/10 11:35 | 05/05/10 14:48 | 84-66-2 | |
| Dimethylphthalate | **0.81J** | ug/L | 4.7 | 0.27 | 1 | 04/29/10 11:35 | 05/05/10 14:48 | 131-11-3 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: SEP-001** **Lab ID: 253591005** Collected: 04/27/10 09:40 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| bis(2-Ethylhexyl)phthalate | **<0.95** | ug/L | 4.7 | 0.95 | 1 | 04/29/10 11:35 | 05/05/10 14:48 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 63 | % | 38-121 | | 1 | 04/29/10 11:35 | 05/05/10 14:48 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 57 | % | 40-110 | | 1 | 04/29/10 11:35 | 05/05/10 14:48 | 321-60-8 | |
| Terphenyl-d14 (S) | 75 | % | 26-130 | | 1 | 04/29/10 11:35 | 05/05/10 14:48 | 1718-51-0 | |
| Phenol-d6 (S) | 25 | % | 11-120 | | 1 | 04/29/10 11:35 | 05/05/10 14:48 | 13127-88-3 | |
| 2-Fluorophenol (S) | 38 | % | 20-120 | | 1 | 04/29/10 11:35 | 05/05/10 14:48 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 76 | % | 37-120 | | 1 | 04/29/10 11:35 | 05/05/10 14:48 | 118-79-6 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 14:18 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 14:18 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 14:18 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/29/10 14:18 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/29/10 14:18 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 14:18 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/29/10 14:18 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 14:18 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/29/10 14:18 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 14:18 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **0.12J** | ug/L | 1.0 | 0.086 | 1 | | 04/29/10 14:18 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/29/10 14:18 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 14:18 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/29/10 14:18 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 14:18 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/29/10 14:18 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:18 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:18 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:18 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 14:18 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 14:18 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 14:18 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/29/10 14:18 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/29/10 14:18 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/29/10 14:18 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/29/10 14:18 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/29/10 14:18 | 108-10-1 | |
| Acetone | **3.1J** | ug/L | 5.0 | 0.75 | 1 | | 04/29/10 14:18 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 14:18 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:18 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/29/10 14:18 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 14:18 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/29/10 14:18 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/29/10 14:18 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:18 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/29/10 14:18 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 14:18 | 108-90-7 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: SEP-001** **Lab ID: 253591005** Collected: 04/27/10 09:40 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 14:18 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 14:18 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 14:18 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 14:18 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/29/10 14:18 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/29/10 14:18 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 14:18 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 14:18 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 14:18 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:18 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/29/10 14:18 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 14:18 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 14:18 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 14:18 | 127-18-4 | |
| Toluene | **0.28J** | ug/L | 1.0 | 0.21 | 1 | | 04/29/10 14:18 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 14:18 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/29/10 14:18 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/29/10 14:18 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/29/10 14:18 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/29/10 14:18 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/29/10 14:18 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/29/10 14:18 | 179601-23-1 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 14:18 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:18 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 14:18 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 14:18 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 14:18 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 14:18 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 14:18 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:18 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 96 | % | 80-120 | | 1 | | 04/29/10 14:18 | 460-00-4 | |
| Dibromofluoromethane (S) | 98 | % | 80-122 | | 1 | | 04/29/10 14:18 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 80-124 | | 1 | | 04/29/10 14:18 | 17060-07-0 | |
| Toluene-d8 (S) | 103 | % | 80-123 | | 1 | | 04/29/10 14:18 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **4000** | ug/L | 2000 | 2000 | 1 | | 04/30/10 10:30 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **2.4** | mg/L | 1.0 | 0.37 | 1 | | 05/09/10 18:17 | 7440-44-0 | TP |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: CB-42** **Lab ID: 253591006** Collected: 04/27/10 10:00 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.014** | ug/L | 0.049 | 0.014 | 1 | 04/30/10 14:15 | 05/10/10 08:05 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.016** | ug/L | 0.049 | 0.016 | 1 | 04/30/10 14:15 | 05/10/10 08:05 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.049 | 0.021 | 1 | 04/30/10 14:15 | 05/10/10 08:05 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.049 | 0.017 | 1 | 04/30/10 14:15 | 05/10/10 08:05 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0097** | ug/L | 0.049 | 0.0097 | 1 | 04/30/10 14:15 | 05/10/10 08:05 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.049** | ug/L | 0.049 | 0.049 | 1 | 04/30/10 14:15 | 05/10/10 08:05 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.027** | ug/L | 0.049 | 0.027 | 1 | 04/30/10 14:15 | 05/10/10 08:05 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0028** | ug/L | 0.049 | 0.0028 | 1 | 04/30/10 14:15 | 05/10/10 08:05 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.049 | 0.024 | 1 | 04/30/10 14:15 | 05/10/10 08:05 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 72 | % | 64-120 | | 1 | 04/30/10 14:15 | 05/10/10 08:05 | 877-09-8 | |
| Decachlorobiphenyl (S) | 53 | % | 44-120 | | 1 | 04/30/10 14:15 | 05/10/10 08:05 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **56.7J** | ug/L | 76.9 | 35.6 | 1 | 05/04/10 12:10 | 05/05/10 18:32 | | |
| Motor Oil Range SG | **289J** | ug/L | 385 | 58.7 | 1 | 05/04/10 12:10 | 05/05/10 18:32 | 64742-65-0 | |
| n-Octacosane (S) SG | 97 | % | 50-150 | | 1 | 05/04/10 12:10 | 05/05/10 18:32 | 630-02-4 | |
| o-Terphenyl (S) SG | 101 | % | 50-150 | | 1 | 05/04/10 12:10 | 05/05/10 18:32 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **<13.4** | ug/L | 50.0 | 13.4 | 1 | | 04/29/10 15:13 | | |
| a,a,a-Trifluorotoluene (S) | 101 | % | 50-150 | | 1 | | 04/29/10 15:13 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 98 | % | 50-150 | | 1 | | 04/29/10 15:13 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.16J** | ug/L | 0.50 | 0.062 | 1 | 05/07/10 20:19 | 05/08/10 17:04 | 7440-38-2 | |
| Barium | **6.1** | ug/L | 0.30 | 0.043 | 1 | 05/07/10 20:19 | 05/08/10 17:04 | 7440-39-3 | |
| Cadmium | **0.095** | ug/L | 0.080 | 0.020 | 1 | 05/07/10 20:19 | 05/08/10 17:04 | 7440-43-9 | B |
| Chromium | **0.56** | ug/L | 0.50 | 0.24 | 1 | 05/07/10 20:19 | 05/08/10 17:04 | 7440-47-3 | |
| Copper | **3.7** | ug/L | 0.50 | 0.20 | 1 | 05/07/10 20:19 | 05/08/10 17:04 | 7440-50-8 | |
| Lead | **2.2** | ug/L | 0.10 | 0.020 | 1 | 05/07/10 20:19 | 05/08/10 17:04 | 7439-92-1 | B |
| Manganese | **16.6** | ug/L | 0.50 | 0.050 | 1 | 05/07/10 20:19 | 05/08/10 17:04 | 7439-96-5 | B |
| Selenium | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 05/07/10 20:19 | 05/08/10 17:04 | 7782-49-2 | |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 05/07/10 20:19 | 05/08/10 17:04 | 7440-22-4 | |
| Zinc | **34.9** | ug/L | 5.0 | 1.3 | 1 | 05/07/10 20:19 | 05/08/10 17:04 | 7440-66-6 | B |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **0.12J** | ug/L | 0.50 | 0.062 | 1 | 05/06/10 14:31 | 05/07/10 06:04 | 7440-38-2 | |
| Barium, Dissolved | **2.5** | ug/L | 0.30 | 0.043 | 1 | 05/06/10 14:31 | 05/07/10 06:04 | 7440-39-3 | |
| Cadmium, Dissolved | **0.048J** | ug/L | 0.080 | 0.020 | 1 | 05/06/10 14:31 | 05/07/10 06:04 | 7440-43-9 | |
| Chromium, Dissolved | **<0.24** | ug/L | 0.50 | 0.24 | 1 | 05/06/10 14:31 | 05/07/10 06:04 | 7440-47-3 | |
| Copper, Dissolved | **1.9** | ug/L | 0.50 | 0.20 | 1 | 05/06/10 14:31 | 05/07/10 06:04 | 7440-50-8 | |
| Lead, Dissolved | **0.051J** | ug/L | 0.10 | 0.020 | 1 | 05/06/10 14:31 | 05/07/10 06:04 | 7439-92-1 | |
| Manganese, Dissolved | **7.7** | ug/L | 0.50 | 0.050 | 1 | 05/06/10 14:31 | 05/07/10 06:04 | 7439-96-5 | B |
| Selenium, Dissolved | **<0.10** | ug/L | 0.50 | 0.10 | 1 | 05/06/10 14:31 | 05/07/10 06:04 | 7782-49-2 | |
| Silver, Dissolved | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 05/06/10 14:31 | 05/07/10 06:04 | 7440-22-4 | CH |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: CB-42** **Lab ID: 253591006** Collected: 04/27/10 10:00 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Zinc, Dissolved | **25.8** | ug/L | 5.0 | 1.3 | 1 | 05/06/10 14:31 | 05/07/10 06:04 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 05/03/10 10:24 | 05/04/10 15:03 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 05/03/10 10:24 | 05/04/10 15:28 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **0.0082J** | ug/L | 0.014 | 0.0060 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 90-12-0 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 91-57-6 | |
| Acenaphthene | **0.0041J** | ug/L | 0.014 | 0.00067 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 83-32-9 | |
| Acenaphthylene | **0.0032J** | ug/L | 0.014 | 0.00068 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 208-96-8 | |
| Anthracene | **0.0042J** | ug/L | 0.014 | 0.0012 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 56-55-3 | |
| Benzo(a)pyrene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 50-32-8 | |
| Benzo(b)fluoranthene | **0.072** | ug/L | 0.014 | 0.0019 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 205-99-2 | |
| Benzo(g,h,i)perylene | **0.020** | ug/L | 0.014 | 0.0016 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 191-24-2 | |
| Benzo(k)fluoranthene | **0.0093J** | ug/L | 0.014 | 0.00067 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 207-08-9 | |
| Chrysene | **0.021** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 218-01-9 | |
| Dibenz(a,h)anthracene | **0.0035J** | ug/L | 0.014 | 0.0017 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 53-70-3 | |
| Fluoranthene | **0.026** | ug/L | 0.014 | 0.0018 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 206-44-0 | |
| Fluorene | **0.0072J** | ug/L | 0.014 | 0.0036 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 193-39-5 | |
| Naphthalene | **0.017** | ug/L | 0.014 | 0.0014 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 91-20-3 | |
| Phenanthrene | **0.031** | ug/L | 0.014 | 0.0036 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 85-01-8 | B |
| Pyrene | **0.032** | ug/L | 0.014 | 0.0019 | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 129-00-0 | |
| 2-Fluorobiphenyl (S) | 71 | % | 40-106 | | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 321-60-8 | |
| Terphenyl-d14 (S) | 103 | % | 55-146 | | 1 | 04/29/10 11:40 | 05/11/10 01:31 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **25.2** | ug/L | 4.9 | 0.45 | 1 | 04/29/10 11:35 | 05/05/10 15:11 | 85-68-7 | |
| Di-n-butylphthalate | **<0.46** | ug/L | 4.9 | 0.46 | 1 | 04/29/10 11:35 | 05/05/10 15:11 | 84-74-2 | |
| Di-n-octylphthalate | **<0.49** | ug/L | 4.9 | 0.49 | 1 | 04/29/10 11:35 | 05/05/10 15:11 | 117-84-0 | |
| Diethylphthalate | **<0.42** | ug/L | 4.9 | 0.42 | 1 | 04/29/10 11:35 | 05/05/10 15:11 | 84-66-2 | |
| Dimethylphthalate | **2.7J** | ug/L | 4.9 | 0.27 | 1 | 04/29/10 11:35 | 05/05/10 15:11 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **1.1J** | ug/L | 4.9 | 0.97 | 1 | 04/29/10 11:35 | 05/05/10 15:11 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 72 | % | 38-121 | | 1 | 04/29/10 11:35 | 05/05/10 15:11 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 68 | % | 40-110 | | 1 | 04/29/10 11:35 | 05/05/10 15:11 | 321-60-8 | |
| Terphenyl-d14 (S) | 90 | % | 26-130 | | 1 | 04/29/10 11:35 | 05/05/10 15:11 | 1718-51-0 | |
| Phenol-d6 (S) | 30 | % | 11-120 | | 1 | 04/29/10 11:35 | 05/05/10 15:11 | 13127-88-3 | |
| 2-Fluorophenol (S) | 43 | % | 20-120 | | 1 | 04/29/10 11:35 | 05/05/10 15:11 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 87 | % | 37-120 | | 1 | 04/29/10 11:35 | 05/05/10 15:11 | 118-79-6 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: CB-42** **Lab ID: 253591006** Collected: 04/27/10 10:00 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 14:41 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 14:41 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 14:41 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/29/10 14:41 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/29/10 14:41 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 14:41 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/29/10 14:41 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 14:41 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/29/10 14:41 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 14:41 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/29/10 14:41 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/29/10 14:41 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 14:41 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/29/10 14:41 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 14:41 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/29/10 14:41 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:41 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:41 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:41 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 14:41 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 14:41 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 14:41 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/29/10 14:41 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/29/10 14:41 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/29/10 14:41 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/29/10 14:41 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/29/10 14:41 | 108-10-1 | |
| Acetone | **5.2** | ug/L | 5.0 | 0.75 | 1 | | 04/29/10 14:41 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 14:41 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:41 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/29/10 14:41 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 14:41 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/29/10 14:41 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/29/10 14:41 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:41 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/29/10 14:41 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 14:41 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 14:41 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 14:41 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 14:41 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 14:41 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/29/10 14:41 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/29/10 14:41 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 14:41 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 14:41 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 14:41 | 98-82-8 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: CB-42** **Lab ID: 253591006** Collected: 04/27/10 10:00 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:41 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 04/29/10 14:41 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 14:41 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 14:41 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 14:41 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/29/10 14:41 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 14:41 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/29/10 14:41 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/29/10 14:41 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/29/10 14:41 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/29/10 14:41 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/29/10 14:41 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/29/10 14:41 | 179601-23-1 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 14:41 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:41 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 14:41 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 14:41 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 14:41 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 14:41 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 14:41 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 14:41 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 98 | % | 80-120 | | 1 | | 04/29/10 14:41 | 460-00-4 | |
| Dibromofluoromethane (S) | 96 | % | 80-122 | | 1 | | 04/29/10 14:41 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 96 | % | 80-124 | | 1 | | 04/29/10 14:41 | 17060-07-0 | |
| Toluene-d8 (S) | 104 | % | 80-123 | | 1 | | 04/29/10 14:41 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **9000** | ug/L | 2000 | 2000 | 1 | | 04/30/10 10:30 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **2.4** | mg/L | 1.0 | 0.37 | 1 | | 05/09/10 18:24 | 7440-44-0 | TP |

**Sample: TB-1** **Lab ID: 253591007** Collected: 04/27/10 00:00 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **<13.4** | ug/L | 50.0 | 13.4 | 1 | | 04/29/10 12:21 | | |
| a,a,a-Trifluorotoluene (S) | 66 | % | 50-150 | | 1 | | 04/29/10 12:21 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 68 | % | 50-150 | | 1 | | 04/29/10 12:21 | 460-00-4 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 12:26 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 12:26 | 71-55-6 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: TB-1** **Lab ID: 253591007** Collected: 04/27/10 00:00 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 12:26 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/29/10 12:26 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/29/10 12:26 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 12:26 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 04/29/10 12:26 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 12:26 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 04/29/10 12:26 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 12:26 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/29/10 12:26 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 04/29/10 12:26 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 12:26 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/29/10 12:26 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 12:26 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 04/29/10 12:26 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:26 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:26 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:26 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 12:26 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 12:26 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 12:26 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 04/29/10 12:26 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 04/29/10 12:26 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 04/29/10 12:26 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 04/29/10 12:26 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 04/29/10 12:26 | 108-10-1 | |
| Acetone | **1.4J** | ug/L | 5.0 | 0.75 | 1 | | 04/29/10 12:26 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 12:26 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:26 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 04/29/10 12:26 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 12:26 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 04/29/10 12:26 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 04/29/10 12:26 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:26 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 04/29/10 12:26 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 12:26 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 12:26 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 12:26 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 12:26 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 04/29/10 12:26 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 04/29/10 12:26 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 04/29/10 12:26 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 04/29/10 12:26 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 04/29/10 12:26 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 12:26 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:26 | 1634-04-4 | |
| Methylene chloride | **0.59J** | ug/L | 4.0 | 0.26 | 1 | | 04/29/10 12:26 | 75-09-2 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

**Sample: TB-1** **Lab ID: 253591007** Collected: 04/27/10 00:00 Received: 04/28/10 08:45 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 12:26 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 12:26 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 12:26 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 04/29/10 12:26 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 12:26 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 04/29/10 12:26 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 04/29/10 12:26 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 04/29/10 12:26 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 04/29/10 12:26 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 04/29/10 12:26 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 04/29/10 12:26 | 179601-23-1 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 12:26 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:26 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 04/29/10 12:26 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 04/29/10 12:26 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 04/29/10 12:26 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 04/29/10 12:26 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 04/29/10 12:26 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 04/29/10 12:26 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 99 | % | 80-120 | | 1 | | 04/29/10 12:26 | 460-00-4 | |
| Dibromofluoromethane (S) | 96 | % | 80-122 | | 1 | | 04/29/10 12:26 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 80-124 | | 1 | | 04/29/10 12:26 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 80-123 | | 1 | | 04/29/10 12:26 | 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.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

QC Batch: OEXT/2149 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

METHOD BLANK: 26935 Matrix: Water
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/L | <0.014 | 0.050 | 05/09/10 23:07 | |
| PCB-1221 (Aroclor 1221) | ug/L | <0.016 | 0.050 | 05/09/10 23:07 | |
| PCB-1232 (Aroclor 1232) | ug/L | <0.022 | 0.050 | 05/09/10 23:07 | |
| PCB-1242 (Aroclor 1242) | ug/L | <0.018 | 0.050 | 05/09/10 23:07 | |
| PCB-1248 (Aroclor 1248) | ug/L | <0.010 | 0.050 | 05/09/10 23:07 | |
| PCB-1254 (Aroclor 1254) | ug/L | <0.050 | 0.050 | 05/09/10 23:07 | |
| PCB-1260 (Aroclor 1260) | ug/L | <0.028 | 0.050 | 05/09/10 23:07 | |
| PCB-1262 (Aroclor 1262) | ug/L | <0.0029 | 0.050 | 05/09/10 23:07 | |
| PCB-1268 (Aroclor 1268) | ug/L | <0.025 | 0.050 | 05/09/10 23:07 | |
| Decachlorobiphenyl (S) | % | 55 | 44-120 | 05/09/10 23:07 | |
| Tetrachloro-m-xylene (S) | % | 69 | 64-120 | 05/09/10 23:07 | |

LABORATORY CONTROL SAMPLE & LCSD: 26936 26937

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/L | 5 | 3.9 | 3.8 | 79 | 75 | 50-120 | 5 | | |
| PCB-1260 (Aroclor 1260) | ug/L | 5 | 4.1 | 3.8 | 82 | 77 | 59-120 | 6 | | |
| Decachlorobiphenyl (S) | % | | | | 34 | 35 | 44-120 | | | 2n |
| Tetrachloro-m-xylene (S) | % | | | | 81 | 76 | 64-120 | | | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

QC Batch: OEXT/2162 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

METHOD BLANK: 27143 Matrix: Water
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Diesel Range SG | ug/L | <37.0 | 80.0 | 05/05/10 13:42 | |
| Motor Oil Range SG | ug/L | 90.2J | 400 | 05/05/10 13:42 | |
| n-Octacosane (S) SG | % | 97 | 50-150 | 05/05/10 13:42 | |
| o-Terphenyl (S) SG | % | 92 | 50-150 | 05/05/10 13:42 | |

LABORATORY CONTROL SAMPLE & LCSD: 27144 27145

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range SG | ug/L | 5000 | 4760 | 5230 | 95 | 105 | 51-147 | 9 | 30 | |
| Motor Oil Range SG | ug/L | 5000 | 4960 | 5450 | 99 | 109 | 20-160 | 10 | 30 | |
| n-Octacosane (S) SG | % | | | | 95 | 103 | 50-150 | | | |
| o-Terphenyl (S) SG | % | | | | 91 | 98 | 50-150 | | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

QC Batch: GCV/1518 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006, 253591007

METHOD BLANK: 26839 Matrix: Water
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006, 253591007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 17.2J | 50.0 | 04/29/10 08:35 | |
| 4-Bromofluorobenzene (S) | % | 89 | 50-150 | 04/29/10 08:35 | |
| a,a,a-Trifluorotoluene (S) | % | 95 | 50-150 | 04/29/10 08:35 | |

LABORATORY CONTROL SAMPLE: 26840

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 250 | 242 | 97 | 50-163 | |
| 4-Bromofluorobenzene (S) | % | | | 90 | 50-150 | |
| a,a,a-Trifluorotoluene (S) | % | | | 96 | 50-150 | |

SAMPLE DUPLICATE: 26941

| Parameter | Units | 253616001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 29300 | 26300 | 11 | 30 | E |
| 4-Bromofluorobenzene (S) | % | 264 | 240 | 10 | | S2 |
| a,a,a-Trifluorotoluene (S) | % | 368 | 368 | .04 | | S2 |

SAMPLE DUPLICATE: 26942

| Parameter | Units | 253591005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 17.8J | 19.3J | | 30 | |
| 4-Bromofluorobenzene (S) | % | 93 | 99 | 6 | | |
| a,a,a-Trifluorotoluene (S) | % | 101 | 101 | .07 | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

QC Batch: ICPM/20298 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

METHOD BLANK: 784149 Matrix: Water
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | ug/L | <0.062 | 0.50 | 05/08/10 15:34 | |
| Barium | ug/L | <0.043 | 0.30 | 05/08/10 15:34 | |
| Cadmium | ug/L | 0.023J | 0.080 | 05/08/10 15:34 | |
| Chromium | ug/L | <0.24 | 0.50 | 05/08/10 15:34 | |
| Copper | ug/L | <0.20 | 0.50 | 05/08/10 15:34 | |
| Lead | ug/L | 0.024J | 0.10 | 05/08/10 15:34 | |
| Manganese | ug/L | 0.12J | 0.50 | 05/08/10 15:34 | |
| Selenium | ug/L | <0.10 | 0.50 | 05/08/10 15:34 | |
| Silver | ug/L | <0.071 | 0.50 | 05/08/10 15:34 | |
| Zinc | ug/L | 1.4J | 5.0 | 05/08/10 15:34 | |

LABORATORY CONTROL SAMPLE: 784150

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | ug/L | 80 | 76.6 | 96 | 85-115 | |
| Barium | ug/L | 80 | 76.1 | 95 | 85-115 | |
| Cadmium | ug/L | 80 | 77.3 | 97 | 85-115 | |
| Chromium | ug/L | 80 | 75.9 | 95 | 85-115 | |
| Copper | ug/L | 80 | 78.8 | 98 | 85-115 | |
| Lead | ug/L | 80 | 80.4 | 100 | 85-115 | |
| Manganese | ug/L | 80 | 77.0 | 96 | 85-115 | |
| Selenium | ug/L | 80 | 76.3 | 95 | 85-115 | |
| Silver | ug/L | 80 | 82.4 | 103 | 85-115 | |
| Zinc | ug/L | 80 | 76.2 | 95 | 85-115 | |

MATRIX SPIKE SAMPLE: 784151

| Parameter | Units | 9268357005 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 0.12J | 80 | 79.1 | 99 | 70-130 | |
| Barium | ug/L | 110 | 80 | 188 | 98 | 70-130 | |
| Cadmium | ug/L | 0.095 | 80 | 78.2 | 98 | 70-130 | |
| Chromium | ug/L | 1.1 | 80 | 78.5 | 97 | 70-130 | |
| Copper | ug/L | 3.1 | 80 | 82.7 | 99 | 70-130 | |
| Lead | ug/L | 0.52 | 80 | 83.8 | 104 | 70-130 | |
| Manganese | ug/L | 155 | 80 | 234 | 98 | 70-130 | |
| Selenium | ug/L | 0.29J | 80 | 77.0 | 96 | 70-130 | |
| Silver | ug/L | ND | 80 | 25.3 | 32 | 70-130 | M0 |
| Zinc | ug/L | 5.8 | 80 | 83.0 | 96 | 70-130 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

## QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

MATRIX SPIKE SAMPLE: 784152

| Parameter | Units | 253600002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 10.6 | 80 | 87.0 | 96 | 70-130 | |
| Barium | ug/L | 3.3 | 80 | 79.8 | 96 | 70-130 | |
| Cadmium | ug/L | 0.11 | 80 | 76.3 | 95 | 70-130 | |
| Chromium | ug/L | 0.28J | 80 | 75.4 | 94 | 70-130 | |
| Copper | ug/L | 0.29J | 80 | 76.6 | 95 | 70-130 | |
| Lead | ug/L | 0.037J | 80 | 79.8 | 100 | 70-130 | |
| Manganese | ug/L | 389 | 80 | 461 | 90 | 70-130 | |
| Selenium | ug/L | ND | 80 | 74.5 | 93 | 70-130 | |
| Silver | ug/L | ND | 80 | 29.4 | 37 | 70-130 | M0 |
| Zinc | ug/L | 2.8J | 80 | 77.4 | 93 | 70-130 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

QC Batch: ICPM/20294 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

METHOD BLANK: 784130 Matrix: Water
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic, Dissolved | ug/L | <0.062 | 0.50 | 05/07/10 11:50 | |
| Barium, Dissolved | ug/L | <0.043 | 0.30 | 05/07/10 11:50 | |
| Cadmium, Dissolved | ug/L | <0.020 | 0.080 | 05/07/10 11:50 | |
| Chromium, Dissolved | ug/L | <0.24 | 0.50 | 05/07/10 11:50 | |
| Copper, Dissolved | ug/L | <0.20 | 0.50 | 05/07/10 11:50 | |
| Lead, Dissolved | ug/L | <0.020 | 0.10 | 05/07/10 11:50 | |
| Manganese, Dissolved | ug/L | 0.48J | 0.50 | 05/07/10 11:50 | |
| Selenium, Dissolved | ug/L | <0.10 | 0.50 | 05/07/10 11:50 | |
| Silver, Dissolved | ug/L | <0.071 | 0.50 | 05/07/10 11:50 | |
| Zinc, Dissolved | ug/L | <1.3 | 5.0 | 05/07/10 11:50 | |

LABORATORY CONTROL SAMPLE: 784131

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic, Dissolved | ug/L | 80 | 74.9 | 94 | 85-115 | |
| Barium, Dissolved | ug/L | 80 | 76.1 | 95 | 85-115 | |
| Cadmium, Dissolved | ug/L | 80 | 75.5 | 94 | 85-115 | |
| Chromium, Dissolved | ug/L | 80 | 76.4 | 95 | 85-115 | |
| Copper, Dissolved | ug/L | 80 | 76.4 | 95 | 85-115 | |
| Lead, Dissolved | ug/L | 80 | 72.7 | 91 | 85-115 | |
| Manganese, Dissolved | ug/L | 80 | 75.6 | 94 | 85-115 | |
| Selenium, Dissolved | ug/L | 80 | 74.1 | 93 | 85-115 | |
| Silver, Dissolved | ug/L | 80 | 90.6 | 113 | 85-115 | CH |
| Zinc, Dissolved | ug/L | 80 | 76.5 | 96 | 85-115 | |

MATRIX SPIKE SAMPLE: 784132

| Parameter | Units | 253591001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic, Dissolved | ug/L | <0.062 | 80 | 76.3 | 95 | 70-130 | |
| Barium, Dissolved | ug/L | 5.3 | 80 | 83.7 | 98 | 70-130 | |
| Cadmium, Dissolved | ug/L | 0.50 | 80 | 77.3 | 96 | 70-130 | |
| Chromium, Dissolved | ug/L | <0.24 | 80 | 78.4 | 98 | 70-130 | |
| Copper, Dissolved | ug/L | 2.0 | 80 | 80.9 | 99 | 70-130 | |
| Lead, Dissolved | ug/L | 0.14 | 80 | 74.5 | 93 | 70-130 | |
| Manganese, Dissolved | ug/L | 10.2 | 80 | 87.9 | 97 | 70-130 | |
| Selenium, Dissolved | ug/L | <0.10 | 80 | 77.6 | 97 | 70-130 | |
| Silver, Dissolved | ug/L | 0.17J | 80 | 94.2 | 117 | 70-130 | CH |
| Zinc, Dissolved | ug/L | 134 | 80 | 219 | 107 | 70-130 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

MATRIX SPIKE SAMPLE: 784133

| Parameter | Units | 253600002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic, Dissolved | ug/L | 10.6 | 80 | 89.2 | 98 | 70-130 | |
| Barium, Dissolved | ug/L | 3.2 | 80 | 83.4 | 100 | 70-130 | |
| Cadmium, Dissolved | ug/L | ND | 80 | 77.1 | 96 | 70-130 | |
| Chromium, Dissolved | ug/L | ND | 80 | 78.5 | 98 | 70-130 | |
| Copper, Dissolved | ug/L | ND | 80 | 77.1 | 96 | 70-130 | |
| Lead, Dissolved | ug/L | 0.031J | 80 | 76.0 | 95 | 70-130 | |
| Manganese, Dissolved | ug/L | 383 | 80 | 481 | 123 | 70-130 | |
| Selenium, Dissolved | ug/L | ND | 80 | 76.4 | 96 | 70-130 | |
| Silver, Dissolved | ug/L | ND | 80 | 91.8 | 115 | 70-130 | CH |
| Zinc, Dissolved | ug/L | 2.2J | 80 | 81.2 | 99 | 70-130 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

QC Batch: MERP/1163 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

METHOD BLANK: 26997 Matrix: Water
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | <0.013 | 0.20 | 05/04/10 14:40 | |

LABORATORY CONTROL SAMPLE: 26998

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 5 | 5.2 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 26999 27000

| Parameter | Units | 253591001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | <0.013 | 5 | 5 | 5.3 | 5.3 | 105 | 105 | 75-125 | .4 | 20 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

QC Batch: MERP/1164 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

METHOD BLANK: 27001 Matrix: Water
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | <0.072 | 0.20 | 05/04/10 15:05 | |

LABORATORY CONTROL SAMPLE: 27002

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | 5 | 5.3 | 105 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27003 27004

| Parameter | Units | 253591001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | <0.072 | 5 | 5 | 5.3 | 5.2 | 106 | 104 | 85-115 | 2 | 20 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

QC Batch: OEXT/2142 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Low Level PAH SIM
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

METHOD BLANK: 26798 Matrix: Water
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1-Methylnaphthalene | ug/L | <0.0063 | 0.015 | 05/10/10 23:52 | |
| 2-Methylnaphthalene | ug/L | <0.012 | 0.015 | 05/10/10 23:52 | |
| Acenaphthene | ug/L | <0.00070 | 0.015 | 05/10/10 23:52 | |
| Acenaphthylene | ug/L | <0.00071 | 0.015 | 05/10/10 23:52 | |
| Anthracene | ug/L | <0.0013 | 0.015 | 05/10/10 23:52 | |
| Benzo(a)anthracene | ug/L | <0.0018 | 0.015 | 05/10/10 23:52 | |
| Benzo(a)pyrene | ug/L | <0.00070 | 0.015 | 05/10/10 23:52 | |
| Benzo(b)fluoranthene | ug/L | <0.0020 | 0.015 | 05/10/10 23:52 | |
| Benzo(g,h,i)perylene | ug/L | <0.0017 | 0.015 | 05/10/10 23:52 | |
| Benzo(k)fluoranthene | ug/L | <0.00070 | 0.015 | 05/10/10 23:52 | |
| Chrysene | ug/L | <0.0018 | 0.015 | 05/10/10 23:52 | |
| Dibenz(a,h)anthracene | ug/L | <0.0018 | 0.015 | 05/10/10 23:52 | |
| Fluoranthene | ug/L | 0.0064J | 0.015 | 05/10/10 23:52 | |
| Fluorene | ug/L | <0.0038 | 0.015 | 05/10/10 23:52 | |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.0015 | 0.015 | 05/10/10 23:52 | |
| Naphthalene | ug/L | 0.0050J | 0.015 | 05/10/10 23:52 | |
| Phenanthrene | ug/L | 0.011J | 0.015 | 05/10/10 23:52 | 1n |
| Pyrene | ug/L | 0.0043J | 0.015 | 05/10/10 23:52 | |
| 2-Fluorobiphenyl (S) | % | 73 | 40-106 | 05/10/10 23:52 | |
| Terphenyl-d14 (S) | % | 108 | 55-146 | 05/10/10 23:52 | |

LABORATORY CONTROL SAMPLE & LCSD: 26799 26800

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ug/L | 2 | 1.5 | 1.5 | 74 | 75 | 14-126 | .3 | 30 | |
| 2-Methylnaphthalene | ug/L | 2 | 1.6 | 1.5 | 78 | 76 | 30-121 | 2 | 30 | |
| Acenaphthene | ug/L | 2 | 1.7 | 1.6 | 86 | 82 | 32-124 | 5 | 30 | |
| Acenaphthylene | ug/L | 2 | 1.7 | 1.6 | 84 | 80 | 34-128 | 6 | 30 | |
| Anthracene | ug/L | 2 | 2.1 | 1.9 | 104 | 93 | 50-129 | 11 | 30 | |
| Benzo(a)anthracene | ug/L | 2 | 2.1 | 2.0 | 104 | 102 | 58-161 | 2 | 30 | |
| Benzo(a)pyrene | ug/L | 2 | 1.9 | 1.7 | 96 | 86 | 52-156 | 11 | 30 | |
| Benzo(b)fluoranthene | ug/L | 2 | 2.2 | 2.2 | 109 | 109 | 61-167 | .1 | 30 | |
| Benzo(g,h,i)perylene | ug/L | 2 | 2.2 | 2.2 | 111 | 110 | 56-167 | 1 | 30 | |
| Benzo(k)fluoranthene | ug/L | 2 | 2.1 | 2.1 | 106 | 107 | 60-149 | .5 | 30 | |
| Chrysene | ug/L | 2 | 2.0 | 2.0 | 100 | 99 | 61-141 | 1 | 30 | |
| Dibenz(a,h)anthracene | ug/L | 2 | 2.3 | 2.3 | 114 | 113 | 60-176 | .9 | 30 | |
| Fluoranthene | ug/L | 2 | 2.3 | 2.3 | 113 | 116 | 63-155 | 2 | 30 | |
| Fluorene | ug/L | 2 | 1.8 | 1.7 | 92 | 86 | 44-129 | 6 | 30 | |
| Indeno(1,2,3-cd)pyrene | ug/L | 2 | 2.0 | 2.0 | 102 | 101 | 51-159 | .3 | 30 | |
| Naphthalene | ug/L | 2 | 1.5 | 1.5 | 74 | 74 | 29-120 | .6 | 30 | |
| Phenanthrene | ug/L | 2 | 1.9 | 1.9 | 95 | 94 | 56-136 | 1 | 30 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

## QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

LABORATORY CONTROL SAMPLE & LCSD: 26799 26800

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Pyrene | ug/L | 2 | 2.2 | 2.2 | 111 | 109 | 61-143 | 2 | 30 | |
| 2-Fluorobiphenyl (S) | % | | | | 85 | 82 | 40-106 | | | |
| Terphenyl-d14 (S) | % | | | | 104 | 104 | 55-146 | | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

QC Batch: OEXT/2143 Analysis Method: EPA 8270
QC Batch Method: EPA 3520 Analysis Description: 8270 Water MSSV Phthalates
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

METHOD BLANK: 26801 Matrix: Water
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | ug/L | <1.0 | 5.0 | 05/05/10 12:11 | |
| Butylbenzylphthalate | ug/L | <0.46 | 5.0 | 05/05/10 12:11 | |
| Di-n-butylphthalate | ug/L | <0.47 | 5.0 | 05/05/10 12:11 | |
| Di-n-octylphthalate | ug/L | <0.50 | 5.0 | 05/05/10 12:11 | |
| Diethylphthalate | ug/L | <0.43 | 5.0 | 05/05/10 12:11 | |
| Dimethylphthalate | ug/L | <0.28 | 5.0 | 05/05/10 12:11 | |
| 2,4,6-Tribromophenol (S) | % | 69 | 37-120 | 05/05/10 12:11 | |
| 2-Fluorobiphenyl (S) | % | 59 | 40-110 | 05/05/10 12:11 | |
| 2-Fluorophenol (S) | % | 45 | 20-120 | 05/05/10 12:11 | |
| Nitrobenzene-d5 (S) | % | 71 | 38-121 | 05/05/10 12:11 | |
| Phenol-d6 (S) | % | 30 | 11-120 | 05/05/10 12:11 | |
| Terphenyl-d14 (S) | % | 69 | 26-130 | 05/05/10 12:11 | |

LABORATORY CONTROL SAMPLE & LCSD: 26802 26803

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | ug/L | 20 | 12.8 | 12.6 | 64 | 63 | 50-130 | 2 | 30 | |
| Butylbenzylphthalate | ug/L | 20 | 11.8 | 11.4 | 59 | 57 | 44-130 | 4 | 30 | |
| Di-n-butylphthalate | ug/L | 20 | 12.2 | 11.8 | 61 | 59 | 53-130 | 4 | 30 | |
| Di-n-octylphthalate | ug/L | 20 | 11.2 | 11.3 | 56 | 56 | 54-130 | .8 | 30 | |
| Diethylphthalate | ug/L | 20 | 13.6 | 12.7 | 68 | 63 | 20-126 | 7 | 30 | |
| Dimethylphthalate | ug/L | 20 | 12.5 | 12.3 | 63 | 62 | 54-130 | 2 | 30 | |
| 2,4,6-Tribromophenol (S) | % | | | | 64 | 67 | 37-120 | | | |
| 2-Fluorobiphenyl (S) | % | | | | 61 | 63 | 40-110 | | | |
| 2-Fluorophenol (S) | % | | | | 42 | 44 | 20-120 | | | |
| Nitrobenzene-d5 (S) | % | | | | 67 | 70 | 38-121 | | | |
| Phenol-d6 (S) | % | | | | 28 | 30 | 11-120 | | | |
| Terphenyl-d14 (S) | % | | | | 69 | 67 | 26-130 | | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

QC Batch: MSV/2334 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006, 253591007

METHOD BLANK: 26821 Matrix: Water
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006, 253591007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.15 | 1.0 | 04/29/10 11:16 | |
| 1,1,1-Trichloroethane | ug/L | <0.20 | 1.0 | 04/29/10 11:16 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.22 | 1.0 | 04/29/10 11:16 | |
| 1,1,2-Trichloroethane | ug/L | <0.19 | 1.0 | 04/29/10 11:16 | |
| 1,1-Dichloroethane | ug/L | <0.23 | 1.0 | 04/29/10 11:16 | |
| 1,1-Dichloroethene | ug/L | <0.12 | 1.0 | 04/29/10 11:16 | |
| 1,1-Dichloropropene | ug/L | <0.094 | 1.0 | 04/29/10 11:16 | |
| 1,2,3-Trichlorobenzene | ug/L | <0.11 | 1.0 | 04/29/10 11:16 | |
| 1,2,3-Trichloropropane | ug/L | <0.37 | 1.0 | 04/29/10 11:16 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.15 | 1.0 | 04/29/10 11:16 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.086 | 1.0 | 04/29/10 11:16 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <0.79 | 1.0 | 04/29/10 11:16 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.20 | 1.0 | 04/29/10 11:16 | |
| 1,2-Dichlorobenzene | ug/L | <0.25 | 1.0 | 04/29/10 11:16 | |
| 1,2-Dichloroethane | ug/L | <0.074 | 1.0 | 04/29/10 11:16 | |
| 1,2-Dichloroethene (Total) | ug/L | <0.50 | 2.0 | 04/29/10 11:16 | |
| 1,2-Dichloropropane | ug/L | <0.16 | 1.0 | 04/29/10 11:16 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.16 | 1.0 | 04/29/10 11:16 | |
| 1,3-Dichlorobenzene | ug/L | <0.16 | 1.0 | 04/29/10 11:16 | |
| 1,3-Dichloropropane | ug/L | <0.22 | 1.0 | 04/29/10 11:16 | |
| 1,4-Dichlorobenzene | ug/L | <0.20 | 1.0 | 04/29/10 11:16 | |
| 2,2-Dichloropropane | ug/L | <0.27 | 1.0 | 04/29/10 11:16 | |
| 2-Butanone (MEK) | ug/L | <1.6 | 5.0 | 04/29/10 11:16 | |
| 2-Chlorotoluene | ug/L | <0.098 | 1.0 | 04/29/10 11:16 | |
| 2-Hexanone | ug/L | <0.57 | 5.0 | 04/29/10 11:16 | |
| 4-Chlorotoluene | ug/L | <0.13 | 1.0 | 04/29/10 11:16 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | <0.32 | 5.0 | 04/29/10 11:16 | |
| Acetone | ug/L | <0.75 | 5.0 | 04/29/10 11:16 | |
| Benzene | ug/L | <0.12 | 1.0 | 04/29/10 11:16 | |
| Bromobenzene | ug/L | <0.16 | 1.0 | 04/29/10 11:16 | |
| Bromochloromethane | ug/L | <0.34 | 1.0 | 04/29/10 11:16 | |
| Bromodichloromethane | ug/L | <0.11 | 1.0 | 04/29/10 11:16 | |
| Bromoform | ug/L | <0.23 | 1.0 | 04/29/10 11:16 | |
| Bromomethane | ug/L | <0.072 | 1.0 | 04/29/10 11:16 | |
| Carbon disulfide | ug/L | <0.16 | 1.0 | 04/29/10 11:16 | |
| Carbon tetrachloride | ug/L | <0.25 | 1.0 | 04/29/10 11:16 | |
| Chlorobenzene | ug/L | <0.12 | 1.0 | 04/29/10 11:16 | |
| Chloroethane | ug/L | <0.27 | 1.0 | 04/29/10 11:16 | |
| Chloroform | ug/L | <0.15 | 1.0 | 04/29/10 11:16 | |
| Chloromethane | ug/L | <0.20 | 1.0 | 04/29/10 11:16 | |
| cis-1,2-Dichloroethene | ug/L | <0.32 | 1.0 | 04/29/10 11:16 | |
| cis-1,3-Dichloropropene | ug/L | <0.086 | 1.0 | 04/29/10 11:16 | |
| Dibromochloromethane | ug/L | <0.12 | 1.0 | 04/29/10 11:16 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

METHOD BLANK: 26821 Matrix: Water

Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006, 253591007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Dibromomethane | ug/L | <0.18 | 1.0 | 04/29/10 11:16 | |
| Dichlorodifluoromethane | ug/L | <0.19 | 1.0 | 04/29/10 11:16 | |
| Ethylbenzene | ug/L | <0.20 | 1.0 | 04/29/10 11:16 | |
| Hexachloro-1,3-butadiene | ug/L | <0.27 | 1.0 | 04/29/10 11:16 | |
| Isopropylbenzene (Cumene) | ug/L | <0.11 | 1.0 | 04/29/10 11:16 | |
| m&p-Xylene | ug/L | <0.27 | 2.0 | 04/29/10 11:16 | |
| Methyl-tert-butyl ether | ug/L | <0.16 | 1.0 | 04/29/10 11:16 | |
| Methylene chloride | ug/L | <0.26 | 4.0 | 04/29/10 11:16 | |
| n-Butylbenzene | ug/L | <0.10 | 1.0 | 04/29/10 11:16 | |
| n-Propylbenzene | ug/L | <0.16 | 1.0 | 04/29/10 11:16 | |
| Naphthalene | ug/L | <0.10 | 1.0 | 04/29/10 11:16 | |
| o-Xylene | ug/L | <0.15 | 1.0 | 04/29/10 11:16 | |
| p-Isopropyltoluene | ug/L | <0.074 | 1.0 | 04/29/10 11:16 | |
| sec-Butylbenzene | ug/L | <0.10 | 1.0 | 04/29/10 11:16 | |
| Styrene | ug/L | <0.074 | 1.0 | 04/29/10 11:16 | |
| tert-Butylbenzene | ug/L | <0.11 | 1.0 | 04/29/10 11:16 | |
| Tetrachloroethene | ug/L | <0.10 | 1.0 | 04/29/10 11:16 | |
| Toluene | ug/L | <0.21 | 1.0 | 04/29/10 11:16 | |
| trans-1,2-Dichloroethene | ug/L | <0.22 | 1.0 | 04/29/10 11:16 | |
| trans-1,3-Dichloropropene | ug/L | <0.16 | 1.0 | 04/29/10 11:16 | |
| Trichloroethene | ug/L | <0.22 | 1.0 | 04/29/10 11:16 | |
| Trichlorofluoromethane | ug/L | <0.24 | 1.0 | 04/29/10 11:16 | |
| Vinyl chloride | ug/L | <0.050 | 1.0 | 04/29/10 11:16 | |
| Xylene (Total) | ug/L | <0.42 | 3.0 | 04/29/10 11:16 | |
| 1,2-Dichloroethane-d4 (S) | % | 94 | 80-124 | 04/29/10 11:16 | |
| 4-Bromofluorobenzene (S) | % | 100 | 80-120 | 04/29/10 11:16 | |
| Dibromofluoromethane (S) | % | 96 | 80-122 | 04/29/10 11:16 | |
| Toluene-d8 (S) | % | 102 | 80-123 | 04/29/10 11:16 | |

LABORATORY CONTROL SAMPLE: 26822

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 20 | 18.9 | 95 | 73-126 | |
| 1,1,1-Trichloroethane | ug/L | 20 | 18.9 | 95 | 69-135 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 20 | 18.6 | 93 | 69-123 | |
| 1,1,2-Trichloroethane | ug/L | 20 | 19.0 | 95 | 76-114 | |
| 1,1-Dichloroethane | ug/L | 20 | 17.9 | 90 | 74-124 | |
| 1,1-Dichloroethene | ug/L | 20 | 19.4 | 97 | 69-139 | |
| 1,1-Dichloropropene | ug/L | 20 | 19.1 | 95 | 77-134 | |
| 1,2,3-Trichlorobenzene | ug/L | 20 | 19.1 | 96 | 63-136 | |
| 1,2,3-Trichloropropane | ug/L | 20 | 18.1 | 91 | 66-118 | |
| 1,2,4-Trichlorobenzene | ug/L | 20 | 20.1 | 100 | 68-129 | |
| 1,2,4-Trimethylbenzene | ug/L | 20 | 20.2 | 101 | 72-126 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 20 | 14.9 | 74 | 64-124 | |
| 1,2-Dibromoethane (EDB) | ug/L | 20 | 18.6 | 93 | 78-117 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

LABORATORY CONTROL SAMPLE: 26822

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | ug/L | 20 | 19.7 | 99 | 74-118 | |
| 1,2-Dichloroethane | ug/L | 20 | 18.2 | 91 | 73-127 | |
| 1,2-Dichloroethene (Total) | ug/L | 40 | 39.0 | 97 | 60-140 | |
| 1,2-Dichloropropane | ug/L | 20 | 18.5 | 92 | 72-126 | |
| 1,3,5-Trimethylbenzene | ug/L | 20 | 20.2 | 101 | 68-129 | |
| 1,3-Dichlorobenzene | ug/L | 20 | 19.6 | 98 | 73-119 | |
| 1,3-Dichloropropane | ug/L | 20 | 19.1 | 95 | 74-119 | |
| 1,4-Dichlorobenzene | ug/L | 20 | 19.0 | 95 | 73-115 | |
| 2,2-Dichloropropane | ug/L | 20 | 23.9 | 119 | 46-157 | |
| 2-Butanone (MEK) | ug/L | 40 | 37.5 | 94 | 65-138 | |
| 2-Chlorotoluene | ug/L | 20 | 19.2 | 96 | 68-122 | |
| 2-Hexanone | ug/L | 40 | 40.3 | 101 | 60-135 | |
| 4-Chlorotoluene | ug/L | 20 | 19.0 | 95 | 70-122 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 40 | 36.4 | 91 | 70-135 | |
| Acetone | ug/L | 40 | 50.6 | 127 | 58-146 | |
| Benzene | ug/L | 20 | 19.4 | 97 | 75-124 | |
| Bromobenzene | ug/L | 20 | 18.1 | 90 | 74-116 | |
| Bromochloromethane | ug/L | 20 | 18.2 | 91 | 75-128 | |
| Bromodichloromethane | ug/L | 20 | 18.1 | 90 | 77-126 | |
| Bromoform | ug/L | 20 | 16.9 | 84 | 61-131 | |
| Bromomethane | ug/L | 20 | 15.5 | 77 | 58-139 | |
| Carbon disulfide | ug/L | 20 | 17.6 | 88 | 39-122 | |
| Carbon tetrachloride | ug/L | 20 | 17.7 | 88 | 67-136 | |
| Chlorobenzene | ug/L | 20 | 18.9 | 94 | 78-115 | |
| Chloroethane | ug/L | 20 | 17.2 | 86 | 58-137 | |
| Chloroform | ug/L | 20 | 18.9 | 95 | 75-124 | |
| Chloromethane | ug/L | 20 | 19.9 | 99 | 50-129 | |
| cis-1,2-Dichloroethene | ug/L | 20 | 20.0 | 100 | 78-126 | |
| cis-1,3-Dichloropropene | ug/L | 20 | 18.9 | 94 | 78-159 | |
| Dibromochloromethane | ug/L | 20 | 18.1 | 90 | 81-125 | |
| Dibromomethane | ug/L | 20 | 17.8 | 89 | 75-124 | |
| Dichlorodifluoromethane | ug/L | 20 | 15.6 | 78 | 30-140 | |
| Ethylbenzene | ug/L | 20 | 20.3 | 101 | 76-124 | |
| Hexachloro-1,3-butadiene | ug/L | 20 | 19.5 | 97 | 55-132 | |
| Isopropylbenzene (Cumene) | ug/L | 20 | 20.8 | 104 | 73-127 | |
| m&p-Xylene | ug/L | 40 | 40.8 | 102 | 75-124 | |
| Methyl-tert-butyl ether | ug/L | 20 | 19.7 | 99 | 72-130 | |
| Methylene chloride | ug/L | 20 | 17.5 | 87 | 69-124 | |
| n-Butylbenzene | ug/L | 20 | 20.6 | 103 | 65-131 | |
| n-Propylbenzene | ug/L | 20 | 19.6 | 98 | 69-129 | |
| Naphthalene | ug/L | 20 | 17.2 | 86 | 69-135 | |
| o-Xylene | ug/L | 20 | 21.0 | 105 | 76-121 | |
| p-Isopropyltoluene | ug/L | 20 | 20.8 | 104 | 69-133 | |
| sec-Butylbenzene | ug/L | 20 | 20.6 | 103 | 67-132 | |
| Styrene | ug/L | 20 | 20.7 | 103 | 76-121 | |
| tert-Butylbenzene | ug/L | 20 | 17.7 | 89 | 66-132 | |
| Tetrachloroethene | ug/L | 20 | 16.2 | 81 | 70-127 | |
| Toluene | ug/L | 20 | 18.8 | 94 | 75-124 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

LABORATORY CONTROL SAMPLE: 26822

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ug/L | 20 | 18.9 | 95 | 72-129 | |
| trans-1,3-Dichloropropene | ug/L | 20 | 16.5 | 82 | 69-122 | |
| Trichloroethene | ug/L | 20 | 18.3 | 91 | 78-124 | |
| Trichlorofluoromethane | ug/L | 20 | 21.4 | 107 | 60-147 | |
| Vinyl chloride | ug/L | 20 | 17.3 | 86 | 56-136 | |
| Xylene (Total) | ug/L | 60 | 61.8 | 103 | 76-123 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 94 | 80-124 | |
| 4-Bromofluorobenzene (S) | % | | | 101 | 80-120 | |
| Dibromofluoromethane (S) | % | | | 100 | 80-122 | |
| Toluene-d8 (S) | % | | | 103 | 80-123 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 26823 26824

| Parameter | Units | 253615001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 20 | 20 | 17.8 | 21.1 | 89 | 105 | 73-126 | 17 | 30 | |
| 1,1,1-Trichloroethane | ug/L | ND | 20 | 20 | 19.5 | 22.6 | 97 | 113 | 69-135 | 15 | 30 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 20 | 20 | 16.8 | 19.6 | 84 | 98 | 69-123 | 16 | 30 | |
| 1,1,2-Trichloroethane | ug/L | ND | 20 | 20 | 17.2 | 20.4 | 86 | 102 | 76-114 | 17 | 30 | |
| 1,1-Dichloroethane | ug/L | ND | 20 | 20 | 17.7 | 20.6 | 88 | 103 | 74-124 | 15 | 30 | |
| 1,1-Dichloroethene | ug/L | ND | 20 | 20 | 20.8 | 23.8 | 104 | 119 | 69-139 | 13 | 30 | |
| 1,1-Dichloropropene | ug/L | ND | 20 | 20 | 20.0 | 23.3 | 100 | 116 | 77-134 | 15 | 30 | |
| 1,2,3-Trichlorobenzene | ug/L | ND | 20 | 20 | 17.1 | 20.7 | 85 | 104 | 63-136 | 19 | 30 | |
| 1,2,3-Trichloropropane | ug/L | ND | 20 | 20 | 15.9 | 18.2 | 80 | 91 | 66-118 | 13 | 30 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 20 | 20 | 18.9 | 22.4 | 94 | 112 | 68-129 | 17 | 30 | |
| 1,2,4-Trimethylbenzene | ug/L | ND | 20 | 20 | 19.6 | 23.4 | 97 | 117 | 72-126 | 18 | 30 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 20 | 20 | 13.8 | 15.2 | 69 | 76 | 64-124 | 9 | 30 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 20 | 20 | 17.0 | 19.9 | 85 | 100 | 78-117 | 16 | 30 | |
| 1,2-Dichlorobenzene | ug/L | ND | 20 | 20 | 18.2 | 21.7 | 91 | 109 | 74-118 | 17 | 30 | |
| 1,2-Dichloroethane | ug/L | ND | 20 | 20 | 17.2 | 19.9 | 86 | 100 | 73-127 | 15 | 30 | |
| 1,2-Dichloroethene (Total) | ug/L | ND | 40 | 40 | 38.7 | 45.3 | 97 | 113 | 60-140 | 16 | 30 | |
| 1,2-Dichloropropane | ug/L | ND | 20 | 20 | 17.8 | 20.6 | 89 | 103 | 72-126 | 15 | 30 | |
| 1,3,5-Trimethylbenzene | ug/L | ND | 20 | 20 | 19.9 | 23.7 | 100 | 118 | 68-129 | 17 | 30 | |
| 1,3-Dichlorobenzene | ug/L | ND | 20 | 20 | 18.7 | 22.2 | 93 | 111 | 73-119 | 17 | 30 | |
| 1,3-Dichloropropane | ug/L | ND | 20 | 20 | 17.2 | 20.0 | 86 | 100 | 74-119 | 15 | 30 | |
| 1,4-Dichlorobenzene | ug/L | ND | 20 | 20 | 18.1 | 21.5 | 91 | 107 | 73-115 | 17 | 30 | |
| 2,2-Dichloropropane | ug/L | ND | 20 | 20 | 25.5 | 29.3 | 127 | 147 | 46-157 | 14 | 30 | |
| 2-Butanone (MEK) | ug/L | ND | 40 | 40 | 29.8 | 33.8 | 74 | 85 | 65-138 | 13 | 30 | |
| 2-Chlorotoluene | ug/L | ND | 20 | 20 | 18.7 | 22.2 | 93 | 111 | 68-122 | 17 | 30 | |
| 2-Hexanone | ug/L | ND | 40 | 40 | 32.2 | 37.3 | 80 | 93 | 60-135 | 15 | 30 | |
| 4-Chlorotoluene | ug/L | ND | 20 | 20 | 18.6 | 21.7 | 93 | 109 | 70-122 | 15 | 30 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 40 | 40 | 32.2 | 36.8 | 80 | 92 | 70-135 | 13 | 30 | |
| Acetone | ug/L | ND | 40 | 40 | 28.9 | 33.1 | 72 | 83 | 58-146 | 14 | 30 | |
| Benzene | ug/L | 30.2 | 20 | 20 | 33.6 | 38.2 | 17 | 40 | 75-124 | 13 | 30 | M0 |
| Bromobenzene | ug/L | ND | 20 | 20 | 17.2 | 20.5 | 86 | 103 | 74-116 | 18 | 30 | |
| Bromochloromethane | ug/L | ND | 20 | 20 | 17.0 | 19.9 | 85 | 100 | 75-128 | 16 | 30 | |
| Bromodichloromethane | ug/L | ND | 20 | 20 | 17.1 | 20.1 | 86 | 101 | 77-126 | 16 | 30 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 26823 26824

| Parameter | Units | 253615001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | ug/L | ND | 20 | 20 | 15.1 | 17.5 | 76 | 87 | 61-131 | 15 | 30 | |
| Bromomethane | ug/L | ND | 20 | 20 | 20.6 | 19.2 | 103 | 96 | 58-139 | 7 | 30 | |
| Carbon disulfide | ug/L | ND | 20 | 20 | 18.5 | 21.2 | 93 | 106 | 39-122 | 13 | 30 | |
| Carbon tetrachloride | ug/L | ND | 20 | 20 | 18.3 | 21.3 | 91 | 106 | 67-136 | 15 | 30 | |
| Chlorobenzene | ug/L | ND | 20 | 20 | 18.2 | 21.5 | 91 | 107 | 78-115 | 17 | 30 | |
| Chloroethane | ug/L | ND | 20 | 20 | 22.7 | 20.6 | 113 | 103 | 58-137 | 10 | 30 | |
| Chloroform | ug/L | ND | 20 | 20 | 18.2 | 21.5 | 91 | 108 | 75-124 | 17 | 30 | |
| Chloromethane | ug/L | ND | 20 | 20 | 24.5 | 22.7 | 123 | 113 | 50-129 | 8 | 30 | |
| cis-1,2-Dichloroethene | ug/L | ND | 20 | 20 | 19.5 | 22.9 | 98 | 115 | 78-126 | 16 | 30 | |
| cis-1,3-Dichloropropene | ug/L | ND | 20 | 20 | 18.3 | 21.1 | 92 | 105 | 78-159 | 14 | 30 | |
| Dibromochloromethane | ug/L | ND | 20 | 20 | 16.5 | 19.4 | 83 | 97 | 81-125 | 16 | 30 | |
| Dibromomethane | ug/L | ND | 20 | 20 | 16.3 | 18.9 | 81 | 94 | 75-124 | 15 | 30 | |
| Dichlorodifluoromethane | ug/L | ND | 20 | 20 | 21.0 | 19.1 | 105 | 95 | 30-140 | 10 | 30 | |
| Ethylbenzene | ug/L | ND | 20 | 20 | 20.1 | 23.6 | 99 | 117 | 76-124 | 16 | 30 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 20 | 20 | 19.4 | 23.0 | 97 | 115 | 55-132 | 17 | 30 | |
| Isopropylbenzene (Cumene) | ug/L | ND | 20 | 20 | 20.9 | 24.7 | 104 | 124 | 73-127 | 17 | 30 | |
| m&p-Xylene | ug/L | 3.0 | 40 | 40 | 40.0 | 47.1 | 93 | 110 | 75-124 | 16 | 30 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 20 | 17.7 | 20.6 | 89 | 103 | 72-130 | 15 | 30 | |
| Methylene chloride | ug/L | ND | 20 | 20 | 16.3 | 19.0 | 81 | 95 | 69-124 | 15 | 30 | |
| n-Butylbenzene | ug/L | ND | 20 | 20 | 21.1 | 25.1 | 106 | 125 | 65-131 | 17 | 30 | |
| n-Propylbenzene | ug/L | ND | 20 | 20 | 19.8 | 23.5 | 99 | 117 | 69-129 | 17 | 30 | |
| Naphthalene | ug/L | 2.5 | 20 | 20 | 16.1 | 18.9 | 68 | 82 | 69-135 | 16 | 30 | M0 |
| o-Xylene | ug/L | 2.1 | 20 | 20 | 20.7 | 24.6 | 93 | 112 | 76-121 | 17 | 30 | |
| p-Isopropyltoluene | ug/L | ND | 20 | 20 | 20.8 | 24.7 | 104 | 123 | 69-133 | 17 | 30 | |
| sec-Butylbenzene | ug/L | ND | 20 | 20 | 21.0 | 25.0 | 105 | 125 | 67-132 | 17 | 30 | |
| Styrene | ug/L | ND | 20 | 20 | 19.8 | 23.4 | 99 | 117 | 76-121 | 17 | 30 | |
| tert-Butylbenzene | ug/L | ND | 20 | 20 | 17.6 | 21.2 | 88 | 106 | 66-132 | 18 | 30 | |
| Tetrachloroethene | ug/L | ND | 20 | 20 | 16.6 | 19.5 | 83 | 97 | 70-127 | 16 | 30 | |
| Toluene | ug/L | 7.5 | 20 | 20 | 18.5 | 21.9 | 55 | 72 | 75-124 | 17 | 30 | M0 |
| trans-1,2-Dichloroethene | ug/L | ND | 20 | 20 | 19.2 | 22.4 | 96 | 112 | 72-129 | 15 | 30 | |
| trans-1,3-Dichloropropene | ug/L | ND | 20 | 20 | 15.4 | 18.1 | 77 | 91 | 69-122 | 16 | 30 | |
| Trichloroethene | ug/L | ND | 20 | 20 | 18.4 | 21.6 | 92 | 108 | 78-124 | 16 | 30 | |
| Trichlorofluoromethane | ug/L | ND | 20 | 20 | 30.0 | 26.9 | 150 | 135 | 60-147 | 11 | 30 | M0 |
| Vinyl chloride | ug/L | ND | 20 | 20 | 22.7 | 20.7 | 113 | 103 | 56-136 | 9 | 30 | |
| Xylene (Total) | ug/L | 5.2 | 60 | 60 | 60.7 | 71.6 | 93 | 111 | 76-123 | 17 | 30 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 95 | 94 | 80-124 | | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 100 | 102 | 80-120 | | | |
| Dibromofluoromethane (S) | % | | | | | | 100 | 99 | 80-122 | | | |
| Toluene-d8 (S) | % | | | | | | 102 | 102 | 80-123 | | | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

QC Batch: WET/1962 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

METHOD BLANK: 26927 Matrix: Water
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Total Suspended Solids | ug/L | <2000 | 2000 | 04/30/10 10:30 | |

SAMPLE DUPLICATE: 26928

| Parameter | Units | 253578001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | ug/L | ND | <2000 | | 20 | |

SAMPLE DUPLICATE: 26929

| Parameter | Units | 253591003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | ug/L | 10000 | 9000 | 11 | 20 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

QC Batch: WETA/12863 Analysis Method: EPA 9060
QC Batch Method: EPA 9060 Analysis Description: 9060 TOC
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

METHOD BLANK: 640981 Matrix: Water
Associated Lab Samples: 253591001, 253591002, 253591003, 253591004, 253591005, 253591006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | <0.37 | 1.0 | 05/09/10 17:19 | |

LABORATORY CONTROL SAMPLE: 640982

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 5 | 5.3 | 106 | 84-120 | |

MATRIX SPIKE SAMPLE: 640983

| Parameter | Units | 253591001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 1.9 | 5 | 7.2 | 106 | 59-144 | TP |

SAMPLE DUPLICATE: 640984

| Parameter | Units | 253608003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 3.8 | 3.5 | 7 | 25 | TP |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

QC Batch: WETA/12893 Analysis Method: EPA 9060
QC Batch Method: EPA 9060 Analysis Description: 9060 TOC
Associated Lab Samples:

METHOD BLANK: 641870 Matrix: Water
Associated Lab Samples:

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | <0.37 | 1.0 | 05/10/10 21:02 | |

LABORATORY CONTROL SAMPLE: 641871

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 5 | 4.6 | 92 | 84-120 | |

SAMPLE DUPLICATE: 641872

| Parameter | Units | 6078106007 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | <0.37 | <0.37 | | 25 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALIFIERS

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

## 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

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

## LABORATORIES

| | |
|---|---|
| PASI-K | Pace Analytical Services - Kansas City |
| PASI-M | Pace Analytical Services - Minneapolis |
| PASI-S | Pace Analytical Services - Seattle |

## BATCH QUALIFIERS

Batch: MSSV/1284

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: GCSV/1589

[1] The PCB results reported for workorder 253591 do not meet all Conoco-Philips technical specifications. The continuing calibration verification samples (CCV's) do not meet the criteria of all quantitation peaks being within +/- 15% true value, due to matrix interferences caused by sample analysis. The average of all the quantitation peaks in the CCV's does meet the +/- 15% criteria, as specified in COP technical specifications.

## ANALYTE QUALIFIERS

| | |
|---|---|
| 1n | Analyte was detected in the method blank. |
| 2n | Surrogate recovery is outside laboratory control limits. Batch acceptance based upon the recoveries of target analytes in the LCS being in control as well as all associated samples having passing surrogate recoveries. |
| B | Analyte was detected in the associated method blank. |
| CH | The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high. |
| E | Analyte concentration exceeded the calibration range. The reported result is estimated. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| S2 | Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis). |
| TP | The samples were received outside of required temperature range. Analysis was completed upon client approval. |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **253591001** | **MH 12 (4")** | EPA 3510 | OEXT/2149 | EPA 8082 | GCSV/1589 |
| **253591002** | **MH 12 (6")** | EPA 3510 | OEXT/2149 | EPA 8082 | GCSV/1589 |
| **253591003** | **MH 12 (12")** | EPA 3510 | OEXT/2149 | EPA 8082 | GCSV/1589 |
| **253591004** | **MH3** | EPA 3510 | OEXT/2149 | EPA 8082 | GCSV/1589 |
| **253591005** | **SEP-001** | EPA 3510 | OEXT/2149 | EPA 8082 | GCSV/1589 |
| **253591006** | **CB-42** | EPA 3510 | OEXT/2149 | EPA 8082 | GCSV/1589 |
| **253591001** | **MH 12 (4")** | EPA 3510 | OEXT/2162 | NWTPH-Dx | GCSV/1593 |
| **253591002** | **MH 12 (6")** | EPA 3510 | OEXT/2162 | NWTPH-Dx | GCSV/1593 |
| **253591003** | **MH 12 (12")** | EPA 3510 | OEXT/2162 | NWTPH-Dx | GCSV/1593 |
| **253591004** | **MH3** | EPA 3510 | OEXT/2162 | NWTPH-Dx | GCSV/1593 |
| **253591005** | **SEP-001** | EPA 3510 | OEXT/2162 | NWTPH-Dx | GCSV/1593 |
| **253591006** | **CB-42** | EPA 3510 | OEXT/2162 | NWTPH-Dx | GCSV/1593 |
| **253591001** | **MH 12 (4")** | NWTPH-Gx | GCV/1518 | | |
| **253591002** | **MH 12 (6")** | NWTPH-Gx | GCV/1518 | | |
| **253591003** | **MH 12 (12")** | NWTPH-Gx | GCV/1518 | | |
| **253591004** | **MH3** | NWTPH-Gx | GCV/1518 | | |
| **253591005** | **SEP-001** | NWTPH-Gx | GCV/1518 | | |
| **253591006** | **CB-42** | NWTPH-Gx | GCV/1518 | | |
| **253591007** | **TB-1** | NWTPH-Gx | GCV/1518 | | |
| **253591001** | **MH 12 (4")** | EPA 6020 | ICPM/20298 | EPA 6020 | ICPM/8341 |
| **253591002** | **MH 12 (6")** | EPA 6020 | ICPM/20298 | EPA 6020 | ICPM/8341 |
| **253591003** | **MH 12 (12")** | EPA 6020 | ICPM/20298 | EPA 6020 | ICPM/8341 |
| **253591004** | **MH3** | EPA 6020 | ICPM/20298 | EPA 6020 | ICPM/8341 |
| **253591005** | **SEP-001** | EPA 6020 | ICPM/20298 | EPA 6020 | ICPM/8341 |
| **253591006** | **CB-42** | EPA 6020 | ICPM/20298 | EPA 6020 | ICPM/8341 |
| **253591001** | **MH 12 (4")** | EPA 6020 | ICPM/20294 | EPA 6020 | ICPM/8326 |
| **253591002** | **MH 12 (6")** | EPA 6020 | ICPM/20294 | EPA 6020 | ICPM/8326 |
| **253591003** | **MH 12 (12")** | EPA 6020 | ICPM/20294 | EPA 6020 | ICPM/8326 |
| **253591004** | **MH3** | EPA 6020 | ICPM/20294 | EPA 6020 | ICPM/8326 |
| **253591005** | **SEP-001** | EPA 6020 | ICPM/20294 | EPA 6020 | ICPM/8326 |
| **253591006** | **CB-42** | EPA 6020 | ICPM/20294 | EPA 6020 | ICPM/8326 |
| **253591001** | **MH 12 (4")** | EPA 7470 | MERP/1163 | EPA 7470 | MERC/1178 |
| **253591002** | **MH 12 (6")** | EPA 7470 | MERP/1163 | EPA 7470 | MERC/1178 |
| **253591003** | **MH 12 (12")** | EPA 7470 | MERP/1163 | EPA 7470 | MERC/1178 |
| **253591004** | **MH3** | EPA 7470 | MERP/1163 | EPA 7470 | MERC/1178 |
| **253591005** | **SEP-001** | EPA 7470 | MERP/1163 | EPA 7470 | MERC/1178 |
| **253591006** | **CB-42** | EPA 7470 | MERP/1163 | EPA 7470 | MERC/1178 |
| **253591001** | **MH 12 (4")** | EPA 7470 | MERP/1164 | EPA 7470 | MERC/1179 |
| **253591002** | **MH 12 (6")** | EPA 7470 | MERP/1164 | EPA 7470 | MERC/1179 |
| **253591003** | **MH 12 (12")** | EPA 7470 | MERP/1164 | EPA 7470 | MERC/1179 |
| **253591004** | **MH3** | EPA 7470 | MERP/1164 | EPA 7470 | MERC/1179 |
| **253591005** | **SEP-001** | EPA 7470 | MERP/1164 | EPA 7470 | MERC/1179 |
| **253591006** | **CB-42** | EPA 7470 | MERP/1164 | EPA 7470 | MERC/1179 |
| **253591001** | **MH 12 (4")** | EPA 3510 | OEXT/2142 | EPA 8270 by SIM | MSSV/1285 |
| **253591002** | **MH 12 (6")** | EPA 3510 | OEXT/2142 | EPA 8270 by SIM | MSSV/1285 |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 00922 - Storm Water Sampling
Pace Project No.: 253591

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **253591003** | **MH 12 (12")** | EPA 3510 | OEXT/2142 | EPA 8270 by SIM | MSSV/1285 |
| **253591004** | **MH3** | EPA 3510 | OEXT/2142 | EPA 8270 by SIM | MSSV/1285 |
| **253591005** | **SEP-001** | EPA 3510 | OEXT/2142 | EPA 8270 by SIM | MSSV/1285 |
| **253591006** | **CB-42** | EPA 3510 | OEXT/2142 | EPA 8270 by SIM | MSSV/1285 |
| **253591001** | **MH 12 (4")** | EPA 3520 | OEXT/2143 | EPA 8270 | MSSV/1284 |
| **253591002** | **MH 12 (6")** | EPA 3520 | OEXT/2143 | EPA 8270 | MSSV/1284 |
| **253591003** | **MH 12 (12")** | EPA 3520 | OEXT/2143 | EPA 8270 | MSSV/1284 |
| **253591004** | **MH3** | EPA 3520 | OEXT/2143 | EPA 8270 | MSSV/1284 |
| **253591005** | **SEP-001** | EPA 3520 | OEXT/2143 | EPA 8270 | MSSV/1284 |
| **253591006** | **CB-42** | EPA 3520 | OEXT/2143 | EPA 8270 | MSSV/1284 |
| **253591001** | **MH 12 (4")** | EPA 5030B/8260 | MSV/2334 | | |
| **253591002** | **MH 12 (6")** | EPA 5030B/8260 | MSV/2334 | | |
| **253591003** | **MH 12 (12")** | EPA 5030B/8260 | MSV/2334 | | |
| **253591004** | **MH3** | EPA 5030B/8260 | MSV/2334 | | |
| **253591005** | **SEP-001** | EPA 5030B/8260 | MSV/2334 | | |
| **253591006** | **CB-42** | EPA 5030B/8260 | MSV/2334 | | |
| **253591007** | **TB-1** | EPA 5030B/8260 | MSV/2334 | | |
| **253591001** | **MH 12 (4")** | SM 2540D | WET/1962 | | |
| **253591002** | **MH 12 (6")** | SM 2540D | WET/1962 | | |
| **253591003** | **MH 12 (12")** | SM 2540D | WET/1962 | | |
| **253591004** | **MH3** | SM 2540D | WET/1962 | | |
| **253591005** | **SEP-001** | SM 2540D | WET/1962 | | |
| **253591006** | **CB-42** | SM 2540D | WET/1962 | | |
| **253591001** | **MH 12 (4")** | EPA 9060 | WETA/12863 | | |
| **253591002** | **MH 12 (6")** | EPA 9060 | WETA/12863 | | |
| **253591003** | **MH 12 (12")** | EPA 9060 | WETA/12863 | | |
| **253591004** | **MH3** | EPA 9060 | WETA/12863 | | |
| **253591005** | **SEP-001** | EPA 9060 | WETA/12863 | | |
| **253591006** | **CB-42** | EPA 9060 | WETA/12863 | | |



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

# Sample Condition Upon Receipt

Pace Analytical

Client Name: Stantec

Project # 253591

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other PCS

Tracking #: 1282910

Optional:
Proj. Due Date:
Proj. Name:

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used Horiba 132013 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.9, 5.5, 2.8, 4.7, 2.9 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 4/28/10 AR

Temp should be above freezing to 6°C

| | | Comments: |
|---|---|---|
| Chain of Custody Present: | ☑Yes ☐No ☐N/A | 1. |
| Chain of Custody Filled Out: | ☑Yes ☐No ☐N/A | 2. |
| Chain of Custody Relinquished: | ☑Yes ☐No ☐N/A | 3. |
| Sampler Name & Signature on COC: | ☑Yes ☐No ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☑Yes ☐No ☐N/A | 5. |
| Short Hold Time Analysis (<72hr): | ☐Yes ☑No ☐N/A | 6. |
| Rush Turn Around Time Requested: | ☐Yes ☑No ☐N/A | 7. |
| Sufficient Volume: | ☑Yes ☐No ☐N/A | 8. |
| Correct Containers Used: | ☑Yes ☐No ☐N/A | 9. |
| -Pace Containers Used: | ☑Yes ☐No ☐N/A | |
| Containers Intact: | ☑Yes ☐No ☐N/A | 10. |
| Filtered volume received for Dissolved tests | ☐Yes ☑No ☐N/A | 11. Unpreserved Sample to be filtered and |
| Sample Labels match COC: | ☑Yes ☐No ☐N/A | 12. preserved upon receipt. |
| -Includes date/time/ID/Analysis Matrix: Water | | |
| All containers needing preservation have been checked. | ☑Yes ☐No ☐N/A | 13. Samples 1-4 for total metals analysis received with pH greater than 2. pH adjusted |
| All containers needing preservation are found to be in compliance with EPA recommendation. | ☐Yes ☑No ☐N/A | to <2 with HNO3. |
| exceptions: (VOA) coliform, (TOC) O&G, WI-DRO (water) | ☑Yes ☐No | Initial when completed AR / Lot # of added preservative 1108040 |
| Samples checked for dechlorination: | ☐Yes ☐No ☑N/A | 14. |
| Headspace in VOA Vials ( >6mm): | ☑Yes ☐No ☐N/A | 15. CB-42 received with 1/16 vials having headspace. |
| Trip Blank Present: | ☑Yes ☐No ☐N/A | 16. Tripblank 3 of 16 vials received with |
| Trip Blank Custody Seals Present | ☐Yes ☐No ☑N/A | headspace. |
| Pace Trip Blank Lot # (if purchased): | | |

Field Data Required? Y / N

Client Notification/ Resolution:

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: JENNI GROSS Date: 4/28/10

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

Pace Analytical®
www.pacelabs.com

# CHAIN-OF-CUSTODY / Analytical Request Document

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

WO#253591

Page: 1 of 1

1318315

**Section A** Required Client Information:

Company: Stantec
Address: 7730 SW Mohawk St, Tualatin, OR 97062
Email To: chris.carltonfranco@stantec.com
Phone: 5036912030 Fax: 5036927074
Requested Due Date/TAT: STD

**Section B** Required Project Information:

Report To: Mark.trewartha@stantec.com
Copy To: Alice.larsen@stantec.com, chris.carltonfranco@stantec.com
Purchase Order No.: 4513206663
Project Name: 922 Stormwater Sampling
Project Number: 212302455

**Section C** Invoice Information:

Attention: EMPOS
Company Name: ConocoPhillips
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER X

Site Location STATE: OR

**Section D** Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED Composite Start DATE | COLLECTED Composite Start TIME | COLLECTED Composite End/Grab DATE | COLLECTED Composite End/Grab TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test (Y/N) | NWTPH-Gx | NWTPH-Dx w/ si gel | 9060m TOC | 8260 VOCs | 8270 SIM PAHs | 8270 SIM Phthalates | 8082 PCBs | 6000/7000 Total + dissolved | 8081A Pesticide | TSS | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MH 12 (4") | WT | G | 04-27-10 | 0635 | | | | 18 | 8 | 1 | 1 | 1 | 1 | | | | | X | X | X | X | X | X | X | X | X | | | WO#253591 |
| 2 | MH 12 (6") | | | | 0700 | | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | | | discard cyanide samples |
| 3 | MH 12 (12") | | | | 0740 | | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | | | |
| 4 | MH 3 | | | | 0845 | | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | | | |
| 5 | SEP-001 | | | | 0940 | | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | | | |
| 6 | CB-42 | | | | 1000 | | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | | | |
| 7 | TB-1 | WT | - | 4/27/10 | — | | | | 6 | 6 | | | | | | | | | X | | | X | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| USE JSCS detection levels | Chris Carlton-Franco | 27 Apr 2010 | 1200 | [illegible] | 4/28/10 | 0845 | * | Y | Y | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |

★ Cooler temps: 2.9, 5.5, 2.8, 4.7, 2.9

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Chris Carlton-Franco
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 27 Apr 2010

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

# Sample Container Count

Pace Analytical™ www.pacelabs.com

CLIENT: Stantec WO#253591

COC PAGE 1 of 1
COC ID# 1318315

| Sample Line Item | VG9H | AG1H | AG1U | BG1H | BP1U | BP2U | BP3U | BP2N | BP2S | WGFU | WGKU | BP3C | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6 | 1/<2 | 6 | | | 2 | | 1/3.0 | 1/<2 | | | 1/>12 | | | |
| 2 | ↓ | ↓ | ↓ | | | ↓ | | 1/2.0 | ↓ | | | ↓ | | | |
| 3 | | | | | | | | 1/7.0 | | | | | | | |
| 4 | | | | | | | | 1/2.5 | | | | | | | |
| 5 | | ↓ | ↓ | | | ↓ | | 1/<2 | | | | | | | |
| 6 | | ↓ | ↓ | | | ↓ | | ↓ | ↓ | | | ↓ | | | Trip Blank |
| 7 | ↓ | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | Trip Blank? yes |
| 12 | | | | | | | | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| AG1H | 1 liter HCL amber glass | BP2S | 500mL H2SO4 plastic | JGFU | 4oz unpreserved amber wide |
| AG1U | 1liter unpreserved amber glass | BP2U | 500mL unpreserved plastic | R | terra core kit |
| AG2S | 500mL H2SO4 amber glass | BP2Z | 500mL NaOH, Zn Ac | U | Summa Can |
| AG2U | 500mL unpreserved amber glass | BP3C | 250mL NaOH plastic | VG9H | 40mL HCL clear vial |
| AG3S | 250mL H2SO4 amber glass | BP3N | 250mL HNO3 plastic | VG9T | 40mL Na Thio. clear vial |
| BG1H | 1 liter HCL clear glass | BP3S | 250mL H2SO4 plastic | VG9U | 40mL unpreserved clear vial |
| BG1U | 1 liter unpreserved glass | BP3U | 250mL unpreserved plastic | VG9W | 40mL glass vial preweighted (EPA 5035) |
| BP1N | 1 liter HNO3 plastic | DG9B | 40mL Na Bisulfate amber vial | VSG | Headspace septa vial & HCL |
| BP1S | 1 liter H2SO4 plastic | DG9H | 40mL HCL amber voa vial | WGFU | 4oz clear soil jar |
| BP1U | 1 liter unpreserved plastic | DG9M | 40mL MeOH clear vial | WGFX | 4oz wide jar w/hexane wipe |
| BP1Z | 1 liter NaOH, Zn, Ac | DG9T | 40mL Na Thio amber vial | ZPLC | Ziploc Bag |
| BP2N | 500mL HNO3 plastic | DG9U | 40mL unpreserved amber vial | | |
| BP2O | 500mL NaOH plastic | I | Wipe/Swab | | |

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

May 05, 2010

Client Services
PASI Seattle
940 S. Harney
Seattle, WA 98108

RE: Project 20108038
Project ID: 253591/COP-STANTEC OREGON

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2010. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerly,

Karen Brown
karen.brown@pacelabs.com

**REPORT OF LABORATORY ANALYSIS**

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

Cover 5/5/2010 08:47:58

# Laboratory Certifications

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Project:** 20108038

**Client:** PASI Seattle

**Project ID:** 253591/COP-STANTEC OREGON

Washington Department of Ecology C2078

Oregon Environmental Laboratory Accreditation - LA200001

U.S. Dept. of Agriculture Foreign Soil Import P330-10-00119

Pennsylviania Dept. of Env Protection (NELAC) 68-04202

Texas Commission on Env. Quality (NELAC) T104704405-09-TX

Kansas Department of Health and Environment (NELAC) E-10266

Florida Department of Health (NELAC) E87595

Louisiana Dept. of Health and Hospitals (NELAC) LA100024

Louisiana Dept. of Environmental Quality (NELAC/LELAP) 02006



**REPORT OF LABORATORY ANALYSIS**

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

# Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Project:** 20108038

**Client:** PASI Seattle

**Project ID:** 253591/COP-STANTEC OREGON

| Client Sample ID | Lab ID | Matrix | Collection Date/Time | Received Date/Time |
|---|---|---|---|---|
| MH 12 (4") | 20780963 | Water | 27-Apr-10 06:35 | 28-Apr-10 00:00 |
| MH 12 (6") | 20780964 | Water | 27-Apr-10 07:00 | 28-Apr-10 00:00 |
| MH 12 (12") | 20780965 | Water | 27-Apr-10 07:40 | 28-Apr-10 00:00 |
| MH 3 | 20780966 | Water | 27-Apr-10 08:45 | 28-Apr-10 00:00 |
| SEP-001 | 20780967 | Water | 27-Apr-10 09:40 | 28-Apr-10 00:00 |
| CB-42 | 20780968 | Water | 27-Apr-10 10:00 | 28-Apr-10 00:00 |

# Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Project:** 20108038

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Surrogates:

All surrogate recoveries were within QC limits.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** PASI Seattle

**Client ID:** MH 12 (4")
**Project:** 20108038
**Project ID:** 253591/COP-STANTEC OREGON
**Site:** None
**Lab ID:** 20780963
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 138195
**Method:** EPA 8081
8081 Pests Water
**Collected:** 27-Apr-10
**Received:** 28-Apr-10
**Prepared:** 30-Apr-10

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | MDL | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|---|
| 309-00-2 | Aldrin | 1 | ND | | 0.0500 | 0.0198 | | 03-May-10 17:49 | SLF |
| 319-84-6 | alpha-BHC | 1 | ND | | 0.0500 | 0.0209 | | 03-May-10 17:49 | SLF |
| 319-85-7 | beta-BHC | 1 | ND | | 0.0500 | 0.0188 | | 03-May-10 17:49 | SLF |
| 319-86-8 | delta-BHC | 1 | ND | | 0.0500 | 0.0237 | | 03-May-10 17:49 | SLF |
| 58-89-9 | gamma-BHC (Lindane) | 1 | ND | | 0.0500 | 0.0134 | | 03-May-10 17:49 | SLF |
| 5103-71-9 | alpha-Chlordane | 1 | ND | | 0.0500 | 0.0179 | | 03-May-10 17:49 | SLF |
| 5103-74-2 | gamma-Chlordane | 1 | ND | | 0.0500 | 0.0184 | | 03-May-10 17:49 | SLF |
| 72-54-8 | 4,4'-DDD | 1 | ND | | 0.100 | 0.0147 | | 03-May-10 17:49 | SLF |
| 72-55-9 | 4,4'-DDE | 1 | ND | | 0.100 | 0.0194 | | 03-May-10 17:49 | SLF |
| 50-29-3 | 4,4'-DDT | 1 | ND | | 0.100 | 0.0190 | | 03-May-10 17:49 | SLF |
| 60-57-1 | Dieldrin | 1 | ND | | 0.100 | 0.0144 | | 03-May-10 17:49 | SLF |
| 959-98-8 | Endosulfan I | 1 | ND | | 0.0500 | 0.0154 | | 03-May-10 17:49 | SLF |
| 33213-65-9 | Endosulfan II | 1 | ND | | 0.100 | 0.0135 | | 03-May-10 17:49 | SLF |
| 1031-07-8 | Endosulfan sulfate | 1 | ND | | 0.100 | 0.0163 | | 03-May-10 17:49 | SLF |
| 72-20-8 | Endrin | 1 | ND | | 0.100 | 0.0132 | | 03-May-10 17:49 | SLF |
| 7421-93-4 | Endrin aldehyde | 1 | ND | | 0.100 | 0.0208 | | 03-May-10 17:49 | SLF |
| 76-44-8 | Heptachlor | 1 | ND | | 0.0500 | 0.0188 | | 03-May-10 17:49 | SLF |
| 1024-57-3 | Heptachlor epoxide | 1 | ND | | 0.0500 | 0.0134 | | 03-May-10 17:49 | SLF |
| 72-43-5 | Methoxychlor | 1 | ND | | 0.500 | 0.0186 | | 03-May-10 17:49 | SLF |
| 8001-35-2 | Toxaphene | 1 | ND | | 2.00 | 0.610 | | 03-May-10 17:49 | SLF |

**20 compound(s) reported**

Protocol 5/5/2010 08:48:25

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** PASI Seattle

**Client ID:** MH 12 (6")
**Project:** 20108038
**Project ID:** 253591/COP-STANTEC OREGON
**Site:** None
**Lab ID:** 20780964
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 138195
**Method:** EPA 8081
8081 Pests Water
**Collected:** 27-Apr-10
**Received:** 28-Apr-10
**Prepared:** 30-Apr-10

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | MDL | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|---|
| 309-00-2 | Aldrin | 1 | ND | | 0.0500 | 0.0198 | | 03-May-10 18:06 | SLF |
| 319-84-6 | alpha-BHC | 1 | ND | | 0.0500 | 0.0209 | | 03-May-10 18:06 | SLF |
| 319-85-7 | beta-BHC | 1 | ND | | 0.0500 | 0.0188 | | 03-May-10 18:06 | SLF |
| 319-86-8 | delta-BHC | 1 | ND | | 0.0500 | 0.0237 | | 03-May-10 18:06 | SLF |
| 58-89-9 | gamma-BHC (Lindane) | 1 | ND | | 0.0500 | 0.0134 | | 03-May-10 18:06 | SLF |
| 5103-71-9 | alpha-Chlordane | 1 | ND | | 0.0500 | 0.0179 | | 03-May-10 18:06 | SLF |
| 5103-74-2 | gamma-Chlordane | 1 | ND | | 0.0500 | 0.0184 | | 03-May-10 18:06 | SLF |
| 72-54-8 | 4,4'-DDD | 1 | ND | | 0.100 | 0.0147 | | 03-May-10 18:06 | SLF |
| 72-55-9 | 4,4'-DDE | 1 | ND | | 0.100 | 0.0194 | | 03-May-10 18:06 | SLF |
| 50-29-3 | 4,4'-DDT | 1 | ND | | 0.100 | 0.0190 | | 03-May-10 18:06 | SLF |
| 60-57-1 | Dieldrin | 1 | ND | | 0.100 | 0.0144 | | 03-May-10 18:06 | SLF |
| 959-98-8 | Endosulfan I | 1 | ND | | 0.0500 | 0.0154 | | 03-May-10 18:06 | SLF |
| 33213-65-9 | Endosulfan II | 1 | ND | | 0.100 | 0.0135 | | 03-May-10 18:06 | SLF |
| 1031-07-8 | Endosulfan sulfate | 1 | ND | | 0.100 | 0.0163 | | 03-May-10 18:06 | SLF |
| 72-20-8 | Endrin | 1 | ND | | 0.100 | 0.0132 | | 03-May-10 18:06 | SLF |
| 7421-93-4 | Endrin aldehyde | 1 | ND | | 0.100 | 0.0208 | | 03-May-10 18:06 | SLF |
| 76-44-8 | Heptachlor | 1 | ND | | 0.0500 | 0.0188 | | 03-May-10 18:06 | SLF |
| 1024-57-3 | Heptachlor epoxide | 1 | ND | | 0.0500 | 0.0134 | | 03-May-10 18:06 | SLF |
| 72-43-5 | Methoxychlor | 1 | ND | | 0.500 | 0.0186 | | 03-May-10 18:06 | SLF |
| 8001-35-2 | Toxaphene | 1 | ND | | 2.00 | 0.610 | | 03-May-10 18:06 | SLF |

**20 compound(s) reported**

Protocol 5/5/2010 08:48:25

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** PASI Seattle

**Client ID:** MH 12 (12")
**Project:** 20108038
**Project ID:** 253591/COP-STANTEC OREGON
**Site:** None
**Lab ID:** 20780965
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 138195
**Method:** EPA 8081
8081 Pests Water
**Collected:** 27-Apr-10
**Received:** 28-Apr-10
**Prepared:** 30-Apr-10

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | MDL | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|---|
| 309-00-2 | Aldrin | 1 | ND | | 0.0500 | 0.0198 | | 03-May-10 18:23 | SLF |
| 319-84-6 | alpha-BHC | 1 | ND | | 0.0500 | 0.0209 | | 03-May-10 18:23 | SLF |
| 319-85-7 | beta-BHC | 1 | ND | | 0.0500 | 0.0188 | | 03-May-10 18:23 | SLF |
| 319-86-8 | delta-BHC | 1 | ND | | 0.0500 | 0.0237 | | 03-May-10 18:23 | SLF |
| 58-89-9 | gamma-BHC (Lindane) | 1 | ND | | 0.0500 | 0.0134 | | 03-May-10 18:23 | SLF |
| 5103-71-9 | alpha-Chlordane | 1 | ND | | 0.0500 | 0.0179 | | 03-May-10 18:23 | SLF |
| 5103-74-2 | gamma-Chlordane | 1 | ND | | 0.0500 | 0.0184 | | 03-May-10 18:23 | SLF |
| 72-54-8 | 4,4'-DDD | 1 | ND | | 0.100 | 0.0147 | | 03-May-10 18:23 | SLF |
| 72-55-9 | 4,4'-DDE | 1 | ND | | 0.100 | 0.0194 | | 03-May-10 18:23 | SLF |
| 50-29-3 | 4,4'-DDT | 1 | ND | | 0.100 | 0.0190 | | 03-May-10 18:23 | SLF |
| 60-57-1 | Dieldrin | 1 | ND | | 0.100 | 0.0144 | | 03-May-10 18:23 | SLF |
| 959-98-8 | Endosulfan I | 1 | ND | | 0.0500 | 0.0154 | | 03-May-10 18:23 | SLF |
| 33213-65-9 | Endosulfan II | 1 | ND | | 0.100 | 0.0135 | | 03-May-10 18:23 | SLF |
| 1031-07-8 | Endosulfan sulfate | 1 | ND | | 0.100 | 0.0163 | | 03-May-10 18:23 | SLF |
| 72-20-8 | Endrin | 1 | ND | | 0.100 | 0.0132 | | 03-May-10 18:23 | SLF |
| 7421-93-4 | Endrin aldehyde | 1 | ND | | 0.100 | 0.0208 | | 03-May-10 18:23 | SLF |
| 76-44-8 | Heptachlor | 1 | ND | | 0.0500 | 0.0188 | | 03-May-10 18:23 | SLF |
| 1024-57-3 | Heptachlor epoxide | 1 | ND | | 0.0500 | 0.0134 | | 03-May-10 18:23 | SLF |
| 72-43-5 | Methoxychlor | 1 | ND | | 0.500 | 0.0186 | | 03-May-10 18:23 | SLF |
| 8001-35-2 | Toxaphene | 1 | ND | | 2.00 | 0.610 | | 03-May-10 18:23 | SLF |

**20 compound(s) reported**

Protocol 5/5/2010 08:48:25

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** PASI Seattle

**Client ID:** MH 3
**Project:** 20108038
**Project ID:** 253591/COP-STANTEC OREGON
**Site:** None
**Lab ID:** 20780966
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 138195
**Method:** EPA 8081
8081 Pests Water
**Collected:** 27-Apr-10
**Received:** 28-Apr-10
**Prepared:** 30-Apr-10

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | MDL | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|---|
| 309-00-2 | Aldrin | 1 | ND | | 0.0500 | 0.0198 | | 03-May-10 18:40 | SLF |
| 319-84-6 | alpha-BHC | 1 | ND | | 0.0500 | 0.0209 | | 03-May-10 18:40 | SLF |
| 319-85-7 | beta-BHC | 1 | ND | | 0.0500 | 0.0188 | | 03-May-10 18:40 | SLF |
| 319-86-8 | delta-BHC | 1 | ND | | 0.0500 | 0.0237 | | 03-May-10 18:40 | SLF |
| 58-89-9 | gamma-BHC (Lindane) | 1 | ND | | 0.0500 | 0.0134 | | 03-May-10 18:40 | SLF |
| 5103-71-9 | alpha-Chlordane | 1 | ND | | 0.0500 | 0.0179 | | 03-May-10 18:40 | SLF |
| 5103-74-2 | gamma-Chlordane | 1 | ND | | 0.0500 | 0.0184 | | 03-May-10 18:40 | SLF |
| 72-54-8 | 4,4'-DDD | 1 | ND | | 0.100 | 0.0147 | | 03-May-10 18:40 | SLF |
| 72-55-9 | 4,4'-DDE | 1 | ND | | 0.100 | 0.0194 | | 03-May-10 18:40 | SLF |
| 50-29-3 | 4,4'-DDT | 1 | ND | | 0.100 | 0.0190 | | 03-May-10 18:40 | SLF |
| 60-57-1 | Dieldrin | 1 | ND | | 0.100 | 0.0144 | | 03-May-10 18:40 | SLF |
| 959-98-8 | Endosulfan I | 1 | ND | | 0.0500 | 0.0154 | | 03-May-10 18:40 | SLF |
| 33213-65-9 | Endosulfan II | 1 | ND | | 0.100 | 0.0135 | | 03-May-10 18:40 | SLF |
| 1031-07-8 | Endosulfan sulfate | 1 | ND | | 0.100 | 0.0163 | | 03-May-10 18:40 | SLF |
| 72-20-8 | Endrin | 1 | ND | | 0.100 | 0.0132 | | 03-May-10 18:40 | SLF |
| 7421-93-4 | Endrin aldehyde | 1 | ND | | 0.100 | 0.0208 | | 03-May-10 18:40 | SLF |
| 76-44-8 | Heptachlor | 1 | ND | | 0.0500 | 0.0188 | | 03-May-10 18:40 | SLF |
| 1024-57-3 | Heptachlor epoxide | 1 | ND | | 0.0500 | 0.0134 | | 03-May-10 18:40 | SLF |
| 72-43-5 | Methoxychlor | 1 | ND | | 0.500 | 0.0186 | | 03-May-10 18:40 | SLF |
| 8001-35-2 | Toxaphene | 1 | ND | | 2.00 | 0.610 | | 03-May-10 18:40 | SLF |

**20 compound(s) reported**

Protocol 5/5/2010 08:48:25

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** PASI Seattle

**Client ID:** SEP-001
**Project:** 20108038
**Project ID:** 253591/COP-STANTEC OREGON
**Site:** None
**Lab ID:** 20780967
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 138195
**Method:** EPA 8081
8081 Pests Water
**Collected:** 27-Apr-10
**Received:** 28-Apr-10
**Prepared:** 30-Apr-10

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | MDL | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|---|
| 309-00-2 | Aldrin | 1 | ND | | 0.0500 | 0.0198 | | 03-May-10 18:57 | SLF |
| 319-84-6 | alpha-BHC | 1 | ND | | 0.0500 | 0.0209 | | 03-May-10 18:57 | SLF |
| 319-85-7 | beta-BHC | 1 | ND | | 0.0500 | 0.0188 | | 03-May-10 18:57 | SLF |
| 319-86-8 | delta-BHC | 1 | ND | | 0.0500 | 0.0237 | | 03-May-10 18:57 | SLF |
| 58-89-9 | gamma-BHC (Lindane) | 1 | ND | | 0.0500 | 0.0134 | | 03-May-10 18:57 | SLF |
| 5103-71-9 | alpha-Chlordane | 1 | ND | | 0.0500 | 0.0179 | | 03-May-10 18:57 | SLF |
| 5103-74-2 | gamma-Chlordane | 1 | ND | | 0.0500 | 0.0184 | | 03-May-10 18:57 | SLF |
| 72-54-8 | 4,4'-DDD | 1 | ND | | 0.100 | 0.0147 | | 03-May-10 18:57 | SLF |
| 72-55-9 | 4,4'-DDE | 1 | ND | | 0.100 | 0.0194 | | 03-May-10 18:57 | SLF |
| 50-29-3 | 4,4'-DDT | 1 | ND | | 0.100 | 0.0190 | | 03-May-10 18:57 | SLF |
| 60-57-1 | Dieldrin | 1 | ND | | 0.100 | 0.0144 | | 03-May-10 18:57 | SLF |
| 959-98-8 | Endosulfan I | 1 | ND | | 0.0500 | 0.0154 | | 03-May-10 18:57 | SLF |
| 33213-65-9 | Endosulfan II | 1 | ND | | 0.100 | 0.0135 | | 03-May-10 18:57 | SLF |
| 1031-07-8 | Endosulfan sulfate | 1 | ND | | 0.100 | 0.0163 | | 03-May-10 18:57 | SLF |
| 72-20-8 | Endrin | 1 | ND | | 0.100 | 0.0132 | | 03-May-10 18:57 | SLF |
| 7421-93-4 | Endrin aldehyde | 1 | ND | | 0.100 | 0.0208 | | 03-May-10 18:57 | SLF |
| 76-44-8 | Heptachlor | 1 | ND | | 0.0500 | 0.0188 | | 03-May-10 18:57 | SLF |
| 1024-57-3 | Heptachlor epoxide | 1 | ND | | 0.0500 | 0.0134 | | 03-May-10 18:57 | SLF |
| 72-43-5 | Methoxychlor | 1 | ND | | 0.500 | 0.0186 | | 03-May-10 18:57 | SLF |
| 8001-35-2 | Toxaphene | 1 | ND | | 2.00 | 0.610 | | 03-May-10 18:57 | SLF |

**20 compound(s) reported**

Protocol 5/5/2010 08:48:25

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** PASI Seattle

**Client ID:** CB-42
**Project:** 20108038
**Project ID:** 253591/COP-STANTEC OREGON
**Site:** None
**Lab ID:** 20780968
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 138195
**Method:** EPA 8081
8081 Pests Water
**Collected:** 27-Apr-10
**Received:** 28-Apr-10
**Prepared:** 30-Apr-10

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | MDL | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|---|
| 309-00-2 | Aldrin | 1 | ND | | 0.0500 | 0.0198 | | 03-May-10 19:14 | SLF |
| 319-84-6 | alpha-BHC | 1 | ND | | 0.0500 | 0.0209 | | 03-May-10 19:14 | SLF |
| 319-85-7 | beta-BHC | 1 | ND | | 0.0500 | 0.0188 | | 03-May-10 19:14 | SLF |
| 319-86-8 | delta-BHC | 1 | ND | | 0.0500 | 0.0237 | | 03-May-10 19:14 | SLF |
| 58-89-9 | gamma-BHC (Lindane) | 1 | ND | | 0.0500 | 0.0134 | | 03-May-10 19:14 | SLF |
| 5103-71-9 | alpha-Chlordane | 1 | ND | | 0.0500 | 0.0179 | | 03-May-10 19:14 | SLF |
| 5103-74-2 | gamma-Chlordane | 1 | ND | | 0.0500 | 0.0184 | | 03-May-10 19:14 | SLF |
| 72-54-8 | 4,4'-DDD | 1 | ND | | 0.100 | 0.0147 | | 03-May-10 19:14 | SLF |
| 72-55-9 | 4,4'-DDE | 1 | ND | | 0.100 | 0.0194 | | 03-May-10 19:14 | SLF |
| 50-29-3 | 4,4'-DDT | 1 | ND | | 0.100 | 0.0190 | | 03-May-10 19:14 | SLF |
| 60-57-1 | Dieldrin | 1 | ND | | 0.100 | 0.0144 | | 03-May-10 19:14 | SLF |
| 959-98-8 | Endosulfan I | 1 | ND | | 0.0500 | 0.0154 | | 03-May-10 19:14 | SLF |
| 33213-65-9 | Endosulfan II | 1 | ND | | 0.100 | 0.0135 | | 03-May-10 19:14 | SLF |
| 1031-07-8 | Endosulfan sulfate | 1 | ND | | 0.100 | 0.0163 | | 03-May-10 19:14 | SLF |
| 72-20-8 | Endrin | 1 | ND | | 0.100 | 0.0132 | | 03-May-10 19:14 | SLF |
| 7421-93-4 | Endrin aldehyde | 1 | ND | | 0.100 | 0.0208 | | 03-May-10 19:14 | SLF |
| 76-44-8 | Heptachlor | 1 | ND | | 0.0500 | 0.0188 | | 03-May-10 19:14 | SLF |
| 1024-57-3 | Heptachlor epoxide | 1 | ND | | 0.0500 | 0.0134 | | 03-May-10 19:14 | SLF |
| 72-43-5 | Methoxychlor | 1 | ND | | 0.500 | 0.0186 | | 03-May-10 19:14 | SLF |
| 8001-35-2 | Toxaphene | 1 | ND | | 2.00 | 0.610 | | 03-May-10 19:14 | SLF |

**20 compound(s) reported**

Protocol 5/5/2010 08:48:25

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Organics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Batch:** 138195 **Project:** 20108038 **LCS:** 20781196 30-Apr-10 22:09

**Method:** GC Pesticides/PCBs **LCSD:**

**MS:**

**Units:** ug/L **MSD:**

**Original for MS:**

| Parameter Name | LCS Spike | LCS Found | LCSD Found | LCS %Rec | LCSD %Rec | RPD | MS Spike | Sample Found | MS Found | MSD Found | MS %Rec | MSD %Rec | RPD | QC Limits LCS | QC Limits MS/MSD | Max RPD | Qu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.500 | 0.211 | | 42 | | | | | | | | | | 10-110 | | | Q5 |
| alpha-BHC | 0.500 | 0.433 | | 87 | | | | | | | | | | 21-132 | | | Q5 |
| beta-BHC | 0.500 | 0.424 | | 85 | | | | | | | | | | 28-135 | | | Q5 |
| delta-BHC | 0.500 | 0.541 | | 108 | | | | | | | | | | 26-140 | | | Q5 |
| gamma-BHC (Lindane) | 0.500 | 0.440 | | 88 | | | | | | | | | | 22-136 | | | Q5 |
| alpha-Chlordane | 0.500 | 0.371 | | 74 | | | | | | | | | | 24-123 | | | Q5 |
| gamma-Chlordane | 0.500 | 0.353 | | 71 | | | | | | | | | | 20-123 | | | Q5 |
| 4,4'-DDD | 0.500 | 0.406 | | 81 | | | | | | | | | | 26-136 | | | Q5 |
| 4,4'-DDE | 0.500 | 0.308 | | 62 | | | | | | | | | | 15-110 | | | Q5 |
| 4,4'-DDT | 0.500 | 0.357 | | 71 | | | | | | | | | | 24-119 | | | Q5 |
| Dieldrin | 0.500 | 0.397 | | 80 | | | | | | | | | | 29-129 | | | Q5 |
| Endosulfan I | 0.500 | 0.300 | | 60 | | | | | | | | | | 10-114 | | | Q5 |
| Endosulfan II | 0.500 | 0.300 | | 60 | | | | | | | | | | 10-120 | | | Q5 |
| Endosulfan sulfate | 0.500 | 0.435 | | 87 | | | | | | | | | | 30-140 | | | Q5 |
| Endrin | 0.500 | 0.473 | | 95 | | | | | | | | | | 26-167 | | | Q5 |
| Endrin aldehyde | 0.500 | 0.439 | | 88 | | | | | | | | | | 24-138 | | | Q5 |
| Heptachlor | 0.500 | 0.300 | | 60 | | | | | | | | | | 10-120 | | | Q5 |
| Heptachlor epoxide | 0.500 | 0.373 | | 75 | | | | | | | | | | 24-126 | | | Q5 |
| Methoxychlor | 0.500 | 0.445 | | 89 | | | | | | | | | | 23-160 | | | Q5 |

**19 compound(s) reported**

QC Protocol 5/5/2010 08:48:27

*** denotes recovery outside of QC limits.**
**MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.**

# Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Batch:** 138195 **Project:** 20108038

**Method:** Water GC Pesticides/PCBs

| Lab ID | Sample ID | Qu | Sur 1 %Rec | Sur 2 %Rec | Sur 3 %Rec | Sur 4 %Rec | Sur 5 %Rec | Sur 6 %Rec | Sur 7 %Rec | Sur 8 %Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| 20781195 | 138195 BLANK 1 | | 52 | 93 | 29 | 29 | | | | |
| 20781196 | 138195 LCS 1 | | 91 | 87 | 49 | 51 | | | | |
| 20780968 | CB-42 | | 64 | 53 | 39 | 44 | | | | |
| 20780965 | MH 12 (12") | | 63 | 54 | 33 | 40 | | | | |
| 20780963 | MH 12 (4") | | 78 | 66 | 35 | 54 | | | | |
| 20780964 | MH 12 (6") | | 72 | 63 | 43 | 51 | | | | |
| 20780966 | MH 3 | | 73 | 68 | 33 | 35 | | | | |
| 20780967 | SEP-001 | | 64 | 57 | 38 | 41 | | | | |
| | QC limits: | | 10-137 | 10-137 | 18-119 | 18-119 | | | | |

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

*** denotes surrogate recovery outside of QC limits.**
**D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.**

# Organics Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Blank ID:** 138195 BLANK 1 **Project:** 20108038

**Lab ID:** 20781195

**Prep Level:** Water **Batch:** 138195

**Method:** Water GC Pesticides/PCBs

**Prepared:** 30-Apr-10

**Units:** ug/L

| CAS Numb | Analyte | Dilution | Result | Qu | Reporting Limit | MDL | Analysis | |
|---|---|---|---|---|---|---|---|---|
| 309-00-2 | Aldrin | 1 | ND | | 0.0500 | 0.0198 | 30-Apr-10 21:52 | SLF |
| 319-84-6 | alpha-BHC | 1 | ND | | 0.0500 | 0.0209 | 30-Apr-10 21:52 | SLF |
| 319-85-7 | beta-BHC | 1 | ND | | 0.0500 | 0.0188 | 30-Apr-10 21:52 | SLF |
| 319-86-8 | delta-BHC | 1 | ND | | 0.0500 | 0.0237 | 30-Apr-10 21:52 | SLF |
| 58-89-9 | gamma-BHC (Lindane) | 1 | ND | | 0.0500 | 0.0134 | 30-Apr-10 21:52 | SLF |
| 5103-71-9 | alpha-Chlordane | 1 | ND | | 0.0500 | 0.0179 | 30-Apr-10 21:52 | SLF |
| 5103-74-2 | gamma-Chlordane | 1 | ND | | 0.0500 | 0.0184 | 30-Apr-10 21:52 | SLF |
| 72-54-8 | 4,4'-DDD | 1 | ND | | 0.100 | 0.0147 | 30-Apr-10 21:52 | SLF |
| 72-55-9 | 4,4'-DDE | 1 | ND | | 0.100 | 0.0194 | 30-Apr-10 21:52 | SLF |
| 50-29-3 | 4,4'-DDT | 1 | ND | | 0.100 | 0.0190 | 30-Apr-10 21:52 | SLF |
| 60-57-1 | Dieldrin | 1 | ND | | 0.100 | 0.0144 | 30-Apr-10 21:52 | SLF |
| 959-98-8 | Endosulfan I | 1 | ND | | 0.0500 | 0.0154 | 30-Apr-10 21:52 | SLF |
| 33213-65-9 | Endosulfan II | 1 | ND | | 0.100 | 0.0135 | 30-Apr-10 21:52 | SLF |
| 1031-07-8 | Endosulfan sulfate | 1 | ND | | 0.100 | 0.0163 | 30-Apr-10 21:52 | SLF |
| 72-20-8 | Endrin | 1 | ND | | 0.100 | 0.0132 | 30-Apr-10 21:52 | SLF |
| 7421-93-4 | Endrin aldehyde | 1 | ND | | 0.100 | 0.0208 | 30-Apr-10 21:52 | SLF |
| 76-44-8 | Heptachlor | 1 | ND | | 0.0500 | 0.0188 | 30-Apr-10 21:52 | SLF |
| 1024-57-3 | Heptachlor epoxide | 1 | ND | | 0.0500 | 0.0134 | 30-Apr-10 21:52 | SLF |
| 72-43-5 | Methoxychlor | 1 | ND | | 0.500 | 0.0186 | 30-Apr-10 21:52 | SLF |
| 8001-35-2 | Toxaphene | 1 | ND | | 2.00 | 0.610 | 30-Apr-10 21:52 | SLF |

**20 compound(s) reported**

Protocol Blank 5/5/2010 08:48:29

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Definitions/Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Project:** 20108038

| Value | Description |
|---|---|
| Q5 | Insufficient sample was provided to perform matrix spike analyses on any sample in this analytical batch. Method performance for this analyte has been demonstrated by the laboratory control sample recovery. |
| J | This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit. |
| U | The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated. |
| B | This analyte was detected in the method blank. |
| E | The sample concentration is above the linear calibrated range of the analysis. |
| ND | The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated. |
| MDL | The adjusted method detection limit. |
| LCS(D) | Laboratory Control Sample (Duplicate). |
| MS(D) | Matrix Spike (Duplicate). |
| DUP | Sample Duplicate. |
| RPD | Relative Percent Difference. |

20108038 PASI-SEAT

# Chain of Custody

20 108038

Pace Analytical®
www.pacelabs.com

**Workorder:** 253591 **Workorder Name:** 00922 - Storm Water Sampling **Owner Received Date:** 4/28/2010 **Results Requested By:** 5/10/2010

**Report To**

Jennifer Gross
Pace Analytical Services, Inc.
940 South Harney
Seattle WA 98108
Phone (206)767-5060
Fax (206)767-5063

**Subcontract To**

Pace Analytical New Orleans
1000 Riverbend Blvd
Suite F
St. Rose, LA 70087
Phone (504)469-0333

**Requested Analysis**

| Item | Sample ID | Collect Date/Time | Lab ID | Matrix | Preserved Containers: Unpreserved | 8081 Pesticides | LAB USE ONLY |
|---|---|---|---|---|---|---|---|
| 1 | MH 12 (4") | 4/27/2010 06:35 | 253591001 | Water | 1 | X | 20780963 |
| 2 | MH 12 (6") | 4/27/2010 07:00 | 253591002 | Water | 1 | X | 964 |
| 3 | MH 12 (12") | 4/27/2010 07:40 | 253591003 | Water | 1 | X | 965 |
| 4 | MH3 | 4/27/2010 08:45 | 253591004 | Water | 1 | X | 966 |
| 5 | SEP-001 | 4/27/2010 09:40 | 253591005 | Water | 1 | X | 967 |
| 6 | CB-42 | 4/27/2010 10:00 | 253591006 | Water | 1 | X | 968 |

| Transfers | Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|
| 1 | Amanda Day | 4/28/10 1610 | | |
| 2 | [illegible] | 4-29-10 1015 | M Miller | 4-29-10 1015 |
| 3 | | | | |

**Comments**

Report to the MDL. OK 4/28/10
"SHORT HOLD"

**Cooler Temperature on Receipt** 2-8 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

20108038 PASI-SEAT

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

# Sample Condition Upon Receipt

**Project #:** 20

**Courier:** ☐ Pace Courier ☐ Hackbarth ☑ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC]

**Custody Seals Intact:** ☑Yes ☐No

**Therometer Used:** ☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2 ☐ Therm Fisher IR 3

**Type of Ice:** Wet Blue None

Samples on Ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

**Date and Initials of person examining contents:** 4-29-10

Temp must be measured from Temperature blank when present

| | | | | Comments: |
|---|---|---|---|---|
| Temperature Blank Present"? | ☐Yes | ☑No | ☐N/A | 1 |
| Chain of Custody Present: | ☑Yes | ☐No | ☐N/A | 2 |
| Chain of Custody Complete: | ☑Yes | ☐No | ☐N/A | 3 |
| Chain of Custody Relinquished: | ☑Yes | ☐No | ☐N/A | 4 |
| Sampler Name & Signature on COC: | ☑Yes | ☐No | ☐N/A | 5 |
| Samples Arrived within Hold Time: | ☑Yes | ☐No | ☐N/A | 6 |
| Sufficient Volume: | ☑Yes | ☐No | ☐N/A | 7 |
| Correct Containers Used: | ☑Yes | ☐No | ☐N/A | 8 |
| Filtered vol. Rec. for Diss. tests | ☐Yes | ☐No | ☑N/A | 9 |
| Sample Labels match COC: | ☑Yes | ☐No | ☐N/A | 10 |
| All containers received within manafacture's precautionary and/or expiration dates. | ☑Yes | ☐No | ☐N/A | 11 |
| All containers needing preservation have been checked (except VOA, coliform, & O&G). | ☐Yes | ☐No | ☑N/A | 12 |
| All containers preservation checked found to be in compliance with EPA recommendation. | ☐Yes | ☐No | ☑N/A | 13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____ |
| Samples checked for dechlorination: | ☐Yes | ☐No | ☑N/A | 14 |
| Headspace in VOA Vials ( >6mm): | ☐Yes | ☐No | ☑N/A | 14 |
| Trip Blank Present: | ☐Yes | ☐No | ☑N/A | 16 |
| Trip Blank Custody Seals Present | ☐Yes | ☐No | ☑N/A | 17 |
| Pace Trip Blank Lot # (if purchased): N/A | | | | 18 |

**Client Notification/ Resolution:**

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

ALLC003rev.05, 12Jun2009 - mod

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

June 11, 2010

Alice Larsen
COP_Stantec Oregon
9400 SW Barnes Rd.,
Suite 200
Portland, OR 97225

RE: Project: 00922 - PDX Terminal
Pace Project No.: 253802

Dear Alice Larsen:
Enclosed are the analytical results for sample(s) received by the laboratory on May 27, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The TOC samples were shipped from Pace-Seattle on 06/01/10 for 06/02/10 delivery and were received at Pace-Kansas on 06/03/10 due to FedEx flight delay. The temperature was 8.2C and outside the EPA recommended temperature of 4C +/- 2C.

The TOC samples are warmed to room temperature (20C) prior to analyses. Since samples were still cooled and unopened, the temperature should have no impact on the data set.

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

Sincerely,

Jennifer Gross

jennifer.gross@pacelabs.com
Project Manager



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060



Enclosures

cc: Mark Bare, COP_Stantec Oregon
Chris Carlton-Franco, Stantec
Janet Nash, Stantec
Mark Trewartha, Stantec



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# CERTIFICATIONS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Minnesota Certification IDs**

Arizona Certification #: AZ-0014
Louisiana Certification #: LA080009
Florida/NELAP Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Alaska Certification #: UST-078
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Wisconsin Certification #: 999407970
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
California Certification #: 01155CA

**Washington Certification IDs**

Alaska CS Certification #: UST-025
Alaska Drinking Water VOC Certification #: WA01-09
Alaska Drinking Water Micro Certification #: WA01230
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
940 South Harney Street Seattle, WA 98108
Washington Certification #: C1229

**Kansas Certification IDs**

9608 Loiret Boulevard Lenexa, KS 66219
Utah Certification #: 9135995665
Texas Certification #: T104704407-08-TX
Oregon Certification #: KS200001
Oklahoma Certification #: 9205/9935
A2LA Certification #: 2456.01
Louisiana Certification #: 03055
Kansas/NELAP Certification #: E-10116
Iowa Certification #: 118
Illinois Certification #: 001191
Arkansas Certification #: 05-008-0
Nevada Certification #: KS000212008A



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

## SAMPLE SUMMARY

Project: 00922 - PDX Terminal
Pace Project No.: 253802

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **253802001** | **MH-12 (4in)** | Water | 05/26/10 11:15 | 05/27/10 09:50 |
| **253802002** | **MH-12 (12in)** | Water | 05/26/10 12:30 | 05/27/10 09:50 |
| **253802003** | **MH-3** | Water | 05/26/10 13:30 | 05/27/10 09:50 |
| **253802004** | **SEP-001** | Water | 05/26/10 14:20 | 05/27/10 09:50 |
| **253802005** | **CB-42** | Water | 05/26/10 14:45 | 05/27/10 09:50 |
| **253802006** | **TB** | Water | 05/26/10 00:00 | 05/27/10 09:50 |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# SAMPLE ANALYTE COUNT

Project: 00922 - PDX Terminal
Pace Project No.: 253802

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **253802001** | **MH-12 (4in)** | EPA 8082 | ERB | 11 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LPM | 3 | PASI-S |
| | | EPA 6020 | RJS | 9 | PASI-M |
| | | EPA 6020 | RJS | 9 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | ERB | 20 | PASI-S |
| | | EPA 8270 | ATH | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | CMS | 1 | PASI-S |
| | | EPA 9060 | AJM | 1 | PASI-K |
| **253802002** | **MH-12 (12in)** | EPA 8082 | ERB | 11 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LPM | 3 | PASI-S |
| | | EPA 6020 | RJS | 9 | PASI-M |
| | | EPA 6020 | RJS | 9 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | ERB | 20 | PASI-S |
| | | EPA 8270 | ATH | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | CMS | 1 | PASI-S |
| | | EPA 9060 | AJM | 1 | PASI-K |
| **253802003** | **MH-3** | EPA 8082 | ERB | 11 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LPM | 3 | PASI-S |
| | | EPA 6020 | RJS | 9 | PASI-M |
| | | EPA 6020 | RJS | 9 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | ERB | 20 | PASI-S |
| | | EPA 8270 | ATH | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | CMS | 1 | PASI-S |
| | | EPA 9060 | AJM | 1 | PASI-K |
| **253802004** | **SEP-001** | EPA 8082 | ERB | 11 | PASI-S |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

## SAMPLE ANALYTE COUNT

Project: 00922 - PDX Terminal
Pace Project No.: 253802

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LPM | 3 | PASI-S |
| | | EPA 6020 | RJS | 9 | PASI-M |
| | | EPA 6020 | RJS | 9 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | ERB | 20 | PASI-S |
| | | EPA 8270 | ATH | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | CMS | 1 | PASI-S |
| | | EPA 9060 | AJM | 1 | PASI-K |
| **253802005** | **CB-42** | EPA 8082 | ERB | 11 | PASI-S |
| | | NWTPH-Dx | ERB | 4 | PASI-S |
| | | NWTPH-Gx | LPM | 3 | PASI-S |
| | | EPA 6020 | RJS | 9 | PASI-M |
| | | EPA 6020 | RJS | 9 | PASI-M |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 7470 | BGA | 1 | PASI-S |
| | | EPA 8270 by SIM | ERB | 20 | PASI-S |
| | | EPA 8270 | ATH | 12 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |
| | | SM 2540D | CMS | 1 | PASI-S |
| | | EPA 9060 | AJM | 1 | PASI-K |
| **253802006** | **TB** | NWTPH-Gx | LPM | 3 | PASI-S |
| | | EPA 5030B/8260 | LNH | 71 | PASI-S |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: MH-12 (4in)** **Lab ID: 253802001** Collected: 05/26/10 11:15 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.048 | 0.013 | 1 | 06/01/10 12:25 | 06/03/10 20:09 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.048 | 0.015 | 1 | 06/01/10 12:25 | 06/03/10 20:09 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.048 | 0.021 | 1 | 06/01/10 12:25 | 06/03/10 20:09 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.048 | 0.017 | 1 | 06/01/10 12:25 | 06/03/10 20:09 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0095** | ug/L | 0.048 | 0.0095 | 1 | 06/01/10 12:25 | 06/03/10 20:09 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.048** | ug/L | 0.048 | 0.048 | 1 | 06/01/10 12:25 | 06/03/10 20:09 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.027** | ug/L | 0.048 | 0.027 | 1 | 06/01/10 12:25 | 06/03/10 20:09 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0028** | ug/L | 0.048 | 0.0028 | 1 | 06/01/10 12:25 | 06/03/10 20:09 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.048 | 0.024 | 1 | 06/01/10 12:25 | 06/03/10 20:09 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 77 | % | 64-120 | | 1 | 06/01/10 12:25 | 06/03/10 20:09 | 877-09-8 | |
| Decachlorobiphenyl (S) | 88 | % | 44-120 | | 1 | 06/01/10 12:25 | 06/03/10 20:09 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<35.9** | ug/L | 77.7 | 35.9 | 1 | 06/02/10 11:40 | 06/03/10 21:28 | | |
| Motor Oil Range SG | **115J** | ug/L | 388 | 59.2 | 1 | 06/02/10 11:40 | 06/03/10 21:28 | 64742-65-0 | |
| n-Octacosane (S) SG | 93 | % | 50-150 | | 1 | 06/02/10 11:40 | 06/03/10 21:28 | 630-02-4 | |
| o-Terphenyl (S) SG | 100 | % | 50-150 | | 1 | 06/02/10 11:40 | 06/03/10 21:28 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **17.8J** | ug/L | 50.0 | 13.4 | 1 | | 06/01/10 19:45 | | |
| a,a,a-Trifluorotoluene (S) | 107 | % | 50-150 | | 1 | | 06/01/10 19:45 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 101 | % | 50-150 | | 1 | | 06/01/10 19:45 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.11J** | ug/L | 0.50 | 0.062 | 1 | 06/07/10 17:09 | 06/10/10 01:30 | 7440-38-2 | |
| Barium | **3.9** | ug/L | 0.30 | 0.043 | 1 | 06/07/10 17:09 | 06/10/10 01:30 | 7440-39-3 | B |
| Cadmium | **0.052J** | ug/L | 0.080 | 0.020 | 1 | 06/07/10 17:09 | 06/10/10 01:30 | 7440-43-9 | B |
| Chromium | **0.38J** | ug/L | 0.50 | 0.24 | 1 | 06/07/10 17:09 | 06/10/10 01:30 | 7440-47-3 | |
| Copper | **2.8** | ug/L | 0.50 | 0.20 | 1 | 06/07/10 17:09 | 06/10/10 01:30 | 7440-50-8 | |
| Lead | **0.58** | ug/L | 0.10 | 0.020 | 1 | 06/07/10 17:09 | 06/10/10 01:30 | 7439-92-1 | |
| Manganese | **5.8** | ug/L | 0.50 | 0.050 | 1 | 06/07/10 17:09 | 06/10/10 01:30 | 7439-96-5 | B |
| Silver | **3.4** | ug/L | 0.50 | 0.071 | 1 | 06/07/10 17:09 | 06/10/10 01:30 | 7440-22-4 | B |
| Zinc | **108** | ug/L | 5.0 | 1.3 | 1 | 06/07/10 17:09 | 06/10/10 01:30 | 7440-66-6 | |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **0.064J** | ug/L | 0.50 | 0.062 | 1 | 06/07/10 17:08 | 06/09/10 23:12 | 7440-38-2 | B |
| Barium, Dissolved | **3.6** | ug/L | 0.30 | 0.043 | 1 | 06/07/10 17:08 | 06/09/10 23:12 | 7440-39-3 | B |
| Cadmium, Dissolved | **0.073J** | ug/L | 0.080 | 0.020 | 1 | 06/07/10 17:08 | 06/09/10 23:12 | 7440-43-9 | |
| Chromium, Dissolved | **<0.24** | ug/L | 0.50 | 0.24 | 1 | 06/07/10 17:08 | 06/09/10 23:12 | 7440-47-3 | |
| Copper, Dissolved | **2.2** | ug/L | 0.50 | 0.20 | 1 | 06/07/10 17:08 | 06/09/10 23:12 | 7440-50-8 | |
| Lead, Dissolved | **0.094J** | ug/L | 0.10 | 0.020 | 1 | 06/07/10 17:08 | 06/09/10 23:12 | 7439-92-1 | B |
| Manganese, Dissolved | **6.2** | ug/L | 0.50 | 0.050 | 1 | 06/07/10 17:08 | 06/09/10 23:12 | 7439-96-5 | B |
| Silver, Dissolved | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 06/07/10 17:08 | 06/09/10 23:12 | 7440-22-4 | |
| Zinc, Dissolved | **103** | ug/L | 5.0 | 1.3 | 1 | 06/07/10 17:08 | 06/09/10 23:12 | 7440-66-6 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: MH-12 (4in)** **Lab ID: 253802001** Collected: 05/26/10 11:15 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 06/01/10 11:27 | 06/01/10 15:19 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 06/01/10 11:27 | 06/01/10 15:42 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **<0.0060** | ug/L | 0.014 | 0.0060 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 90-12-0 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 91-57-6 | |
| Acenaphthene | **0.010J** | ug/L | 0.014 | 0.00067 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 83-32-9 | |
| Acenaphthylene | **<0.00068** | ug/L | 0.014 | 0.00068 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 208-96-8 | |
| Anthracene | **0.0077J** | ug/L | 0.014 | 0.0012 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 56-55-3 | |
| Benzo(a)pyrene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 50-32-8 | |
| Benzo(b)fluoranthene | **<0.0019** | ug/L | 0.014 | 0.0019 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 205-99-2 | |
| Benzo(g,h,i)perylene | **<0.0016** | ug/L | 0.014 | 0.0016 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 191-24-2 | |
| Benzo(k)fluoranthene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 207-08-9 | |
| Chrysene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 53-70-3 | |
| Fluoranthene | **0.016** | ug/L | 0.014 | 0.0018 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 206-44-0 | |
| Fluorene | **0.0085J** | ug/L | 0.014 | 0.0036 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 193-39-5 | |
| Naphthalene | **0.0098J** | ug/L | 0.014 | 0.0014 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 91-20-3 | |
| Phenanthrene | **0.029** | ug/L | 0.014 | 0.0036 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 85-01-8 | |
| Pyrene | **0.011J** | ug/L | 0.014 | 0.0019 | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 129-00-0 | |
| 2-Fluorobiphenyl (S) | 71 | % | 40-106 | | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 321-60-8 | |
| Terphenyl-d14 (S) | 95 | % | 55-146 | | 1 | 05/28/10 12:20 | 06/02/10 14:37 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **1.3J** | ug/L | 4.8 | 0.44 | 1 | 05/28/10 12:20 | 06/08/10 18:13 | 85-68-7 | |
| Di-n-butylphthalate | **<0.45** | ug/L | 4.8 | 0.45 | 1 | 05/28/10 12:20 | 06/08/10 18:13 | 84-74-2 | |
| Di-n-octylphthalate | **<0.48** | ug/L | 4.8 | 0.48 | 1 | 05/28/10 12:20 | 06/08/10 18:13 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.8 | 0.41 | 1 | 05/28/10 12:20 | 06/08/10 18:13 | 84-66-2 | |
| Dimethylphthalate | **<0.27** | ug/L | 4.8 | 0.27 | 1 | 05/28/10 12:20 | 06/08/10 18:13 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.96** | ug/L | 4.8 | 0.96 | 1 | 05/28/10 12:20 | 06/08/10 18:13 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 100 | % | 38-121 | | 1 | 05/28/10 12:20 | 06/08/10 18:13 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 73 | % | 40-110 | | 1 | 05/28/10 12:20 | 06/08/10 18:13 | 321-60-8 | |
| Terphenyl-d14 (S) | 84 | % | 26-130 | | 1 | 05/28/10 12:20 | 06/08/10 18:13 | 1718-51-0 | |
| Phenol-d6 (S) | 30 | % | 11-120 | | 1 | 05/28/10 12:20 | 06/08/10 18:13 | 13127-88-3 | |
| 2-Fluorophenol (S) | 45 | % | 20-120 | | 1 | 05/28/10 12:20 | 06/08/10 18:13 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 98 | % | 37-120 | | 1 | 05/28/10 12:20 | 06/08/10 18:13 | 118-79-6 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 13:59 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 13:59 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 13:59 | 79-34-5 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: MH-12 (4in)** **Lab ID: 253802001** Collected: 05/26/10 11:15 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 05/28/10 13:59 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 05/28/10 13:59 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 13:59 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 05/28/10 13:59 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 13:59 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 05/28/10 13:59 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 13:59 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 05/28/10 13:59 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 05/28/10 13:59 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 13:59 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 05/28/10 13:59 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 13:59 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 05/28/10 13:59 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:59 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:59 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:59 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 13:59 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 13:59 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 13:59 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 05/28/10 13:59 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 05/28/10 13:59 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 05/28/10 13:59 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 05/28/10 13:59 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 05/28/10 13:59 | 108-10-1 | |
| Acetone | **2.6J** | ug/L | 5.0 | 0.75 | 1 | | 05/28/10 13:59 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 13:59 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:59 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 05/28/10 13:59 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 13:59 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 05/28/10 13:59 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 05/28/10 13:59 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:59 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 05/28/10 13:59 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 13:59 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 13:59 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 13:59 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 13:59 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 13:59 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 05/28/10 13:59 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 05/28/10 13:59 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 13:59 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 13:59 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 13:59 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:59 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 05/28/10 13:59 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 13:59 | 91-20-3 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: MH-12 (4in)** **Lab ID: 253802001** Collected: 05/26/10 11:15 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 13:59 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 13:59 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 05/28/10 13:59 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 13:59 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 05/28/10 13:59 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 05/28/10 13:59 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 05/28/10 13:59 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 05/28/10 13:59 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 05/28/10 13:59 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 05/28/10 13:59 | 179601-23-1 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 13:59 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:59 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 13:59 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 13:59 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 13:59 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 13:59 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 13:59 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:59 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 98 | % | 80-120 | | 1 | | 05/28/10 13:59 | 460-00-4 | |
| Dibromofluoromethane (S) | 106 | % | 80-122 | | 1 | | 05/28/10 13:59 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 102 | % | 80-124 | | 1 | | 05/28/10 13:59 | 17060-07-0 | |
| Toluene-d8 (S) | 105 | % | 80-123 | | 1 | | 05/28/10 13:59 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **<2000** | ug/L | 2000 | 2000 | 1 | | 05/28/10 13:00 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **2.4** | mg/L | 1.0 | 0.37 | 1 | | 06/08/10 20:26 | 7440-44-0 | |

**Sample: MH-12 (12in)** **Lab ID: 253802002** Collected: 05/26/10 12:30 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.047 | 0.013 | 1 | 06/01/10 12:25 | 06/03/10 21:20 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.047 | 0.015 | 1 | 06/01/10 12:25 | 06/03/10 21:20 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.047 | 0.021 | 1 | 06/01/10 12:25 | 06/03/10 21:20 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.047 | 0.017 | 1 | 06/01/10 12:25 | 06/03/10 21:20 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0095** | ug/L | 0.047 | 0.0095 | 1 | 06/01/10 12:25 | 06/03/10 21:20 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.047** | ug/L | 0.047 | 0.047 | 1 | 06/01/10 12:25 | 06/03/10 21:20 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.027** | ug/L | 0.047 | 0.027 | 1 | 06/01/10 12:25 | 06/03/10 21:20 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0027** | ug/L | 0.047 | 0.0027 | 1 | 06/01/10 12:25 | 06/03/10 21:20 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.047 | 0.024 | 1 | 06/01/10 12:25 | 06/03/10 21:20 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 69 | % | 64-120 | | 1 | 06/01/10 12:25 | 06/03/10 21:20 | 877-09-8 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: MH-12 (12in)** **Lab ID: 253802002** Collected: 05/26/10 12:30 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| Decachlorobiphenyl (S) | 64 | % | 44-120 | | 1 | 06/01/10 12:25 | 06/03/10 21:20 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<35.2** | ug/L | 76.2 | 35.2 | 1 | 06/02/10 11:40 | 06/03/10 21:45 | | |
| Motor Oil Range SG | **167J** | ug/L | 381 | 58.1 | 1 | 06/02/10 11:40 | 06/03/10 21:45 | 64742-65-0 | |
| n-Octacosane (S) SG | 88 | % | 50-150 | | 1 | 06/02/10 11:40 | 06/03/10 21:45 | 630-02-4 | |
| o-Terphenyl (S) SG | 94 | % | 50-150 | | 1 | 06/02/10 11:40 | 06/03/10 21:45 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **13.7J** | ug/L | 50.0 | 13.4 | 1 | | 06/01/10 20:34 | | |
| a,a,a-Trifluorotoluene (S) | 102 | % | 50-150 | | 1 | | 06/01/10 20:34 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 88 | % | 50-150 | | 1 | | 06/01/10 20:34 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.55** | ug/L | 0.50 | 0.062 | 1 | 06/07/10 17:09 | 06/10/10 00:35 | 7440-38-2 | |
| Barium | **18.8** | ug/L | 0.30 | 0.043 | 1 | 06/07/10 17:09 | 06/10/10 00:35 | 7440-39-3 | B |
| Cadmium | **0.076J** | ug/L | 0.080 | 0.020 | 1 | 06/07/10 17:09 | 06/10/10 00:35 | 7440-43-9 | B |
| Chromium | **0.69** | ug/L | 0.50 | 0.24 | 1 | 06/07/10 17:09 | 06/10/10 00:35 | 7440-47-3 | |
| Copper | **5.3** | ug/L | 0.50 | 0.20 | 1 | 06/07/10 17:09 | 06/10/10 00:35 | 7440-50-8 | |
| Lead | **3.0** | ug/L | 0.10 | 0.020 | 1 | 06/07/10 17:09 | 06/10/10 00:35 | 7439-92-1 | |
| Manganese | **39.3** | ug/L | 0.50 | 0.050 | 1 | 06/07/10 17:09 | 06/10/10 00:35 | 7439-96-5 | B |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 06/07/10 17:09 | 06/10/10 00:35 | 7440-22-4 | |
| Zinc | **57.2** | ug/L | 5.0 | 1.3 | 1 | 06/07/10 17:09 | 06/10/10 00:35 | 7440-66-6 | |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **0.43J** | ug/L | 0.50 | 0.062 | 1 | 06/07/10 17:08 | 06/10/10 00:15 | 7440-38-2 | B |
| Barium, Dissolved | **13.6** | ug/L | 0.30 | 0.043 | 1 | 06/07/10 17:08 | 06/10/10 00:15 | 7440-39-3 | B |
| Cadmium, Dissolved | **0.046J** | ug/L | 0.080 | 0.020 | 1 | 06/07/10 17:08 | 06/10/10 00:15 | 7440-43-9 | |
| Chromium, Dissolved | **<0.24** | ug/L | 0.50 | 0.24 | 1 | 06/07/10 17:08 | 06/10/10 00:15 | 7440-47-3 | |
| Copper, Dissolved | **3.5** | ug/L | 0.50 | 0.20 | 1 | 06/07/10 17:08 | 06/10/10 00:15 | 7440-50-8 | |
| Lead, Dissolved | **0.23** | ug/L | 0.10 | 0.020 | 1 | 06/07/10 17:08 | 06/10/10 00:15 | 7439-92-1 | B |
| Manganese, Dissolved | **40.1** | ug/L | 0.50 | 0.050 | 1 | 06/07/10 17:08 | 06/10/10 00:15 | 7439-96-5 | B |
| Silver, Dissolved | **0.16J** | ug/L | 0.50 | 0.071 | 1 | 06/07/10 17:08 | 06/11/10 16:45 | 7440-22-4 | |
| Zinc, Dissolved | **38.7** | ug/L | 5.0 | 1.3 | 1 | 06/07/10 17:08 | 06/10/10 00:15 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 06/01/10 11:27 | 06/01/10 15:25 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 06/01/10 11:27 | 06/01/10 15:48 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **<0.0061** | ug/L | 0.014 | 0.0061 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 90-12-0 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 91-57-6 | |
| Acenaphthene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 83-32-9 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: MH-12 (12in)** **Lab ID: 253802002** Collected: 05/26/10 12:30 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| Acenaphthylene | **<0.00068** | ug/L | 0.014 | 0.00068 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 208-96-8 | |
| Anthracene | **0.0057J** | ug/L | 0.014 | 0.0012 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 56-55-3 | |
| Benzo(a)pyrene | **0.0042J** | ug/L | 0.014 | 0.00067 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 50-32-8 | |
| Benzo(b)fluoranthene | **0.072** | ug/L | 0.014 | 0.0019 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 205-99-2 | |
| Benzo(g,h,i)perylene | **0.020** | ug/L | 0.014 | 0.0016 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 191-24-2 | |
| Benzo(k)fluoranthene | **0.0087J** | ug/L | 0.014 | 0.00067 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 207-08-9 | |
| Chrysene | **0.045** | ug/L | 0.014 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 53-70-3 | |
| Fluoranthene | **0.017** | ug/L | 0.014 | 0.0018 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 206-44-0 | |
| Fluorene | **<0.0037** | ug/L | 0.014 | 0.0037 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 193-39-5 | |
| Naphthalene | **0.0087J** | ug/L | 0.014 | 0.0014 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 91-20-3 | |
| Phenanthrene | **0.014** | ug/L | 0.014 | 0.0037 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 85-01-8 | |
| Pyrene | **0.022** | ug/L | 0.014 | 0.0019 | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 129-00-0 | |
| 2-Fluorobiphenyl (S) | 64 | % | 40-106 | | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 321-60-8 | |
| Terphenyl-d14 (S) | 89 | % | 55-146 | | 1 | 05/28/10 12:20 | 06/02/10 14:53 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **<0.44** | ug/L | 4.7 | 0.44 | 1 | 05/28/10 12:20 | 06/08/10 19:44 | 85-68-7 | |
| Di-n-butylphthalate | **<0.45** | ug/L | 4.7 | 0.45 | 1 | 05/28/10 12:20 | 06/08/10 19:44 | 84-74-2 | |
| Di-n-octylphthalate | **<0.47** | ug/L | 4.7 | 0.47 | 1 | 05/28/10 12:20 | 06/08/10 19:44 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.7 | 0.41 | 1 | 05/28/10 12:20 | 06/08/10 19:44 | 84-66-2 | |
| Dimethylphthalate | **<0.27** | ug/L | 4.7 | 0.27 | 1 | 05/28/10 12:20 | 06/08/10 19:44 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.95** | ug/L | 4.7 | 0.95 | 1 | 05/28/10 12:20 | 06/08/10 19:44 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 88 | % | 38-121 | | 1 | 05/28/10 12:20 | 06/08/10 19:44 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 65 | % | 40-110 | | 1 | 05/28/10 12:20 | 06/08/10 19:44 | 321-60-8 | |
| Terphenyl-d14 (S) | 102 | % | 26-130 | | 1 | 05/28/10 12:20 | 06/08/10 19:44 | 1718-51-0 | |
| Phenol-d6 (S) | 25 | % | 11-120 | | 1 | 05/28/10 12:20 | 06/08/10 19:44 | 13127-88-3 | |
| 2-Fluorophenol (S) | 35 | % | 20-120 | | 1 | 05/28/10 12:20 | 06/08/10 19:44 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 94 | % | 37-120 | | 1 | 05/28/10 12:20 | 06/08/10 19:44 | 118-79-6 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 14:23 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 14:23 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 14:23 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 05/28/10 14:23 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 05/28/10 14:23 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 14:23 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 05/28/10 14:23 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 14:23 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 05/28/10 14:23 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 14:23 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 05/28/10 14:23 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 05/28/10 14:23 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 14:23 | 106-93-4 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: MH-12 (12in)** **Lab ID: 253802002** Collected: 05/26/10 12:30 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 05/28/10 14:23 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 14:23 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 05/28/10 14:23 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:23 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:23 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:23 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 14:23 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 14:23 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 14:23 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 05/28/10 14:23 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 05/28/10 14:23 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 05/28/10 14:23 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 05/28/10 14:23 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 05/28/10 14:23 | 108-10-1 | |
| Acetone | **2.9J** | ug/L | 5.0 | 0.75 | 1 | | 05/28/10 14:23 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 14:23 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:23 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 05/28/10 14:23 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 14:23 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 05/28/10 14:23 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 05/28/10 14:23 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:23 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 05/28/10 14:23 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 14:23 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 14:23 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 14:23 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 14:23 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 14:23 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 05/28/10 14:23 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 05/28/10 14:23 | 75-71-8 | |
| Ethylbenzene | **1.3** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 14:23 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 14:23 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 14:23 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:23 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 05/28/10 14:23 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 14:23 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 14:23 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 14:23 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 05/28/10 14:23 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 14:23 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 05/28/10 14:23 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 05/28/10 14:23 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 05/28/10 14:23 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 05/28/10 14:23 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 05/28/10 14:23 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 05/28/10 14:23 | 179601-23-1 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: MH-12 (12in)** **Lab ID: 253802002** Collected: 05/26/10 12:30 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 14:23 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:23 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 14:23 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 14:23 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 14:23 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 14:23 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 14:23 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:23 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 100 | % | 80-120 | | 1 | | 05/28/10 14:23 | 460-00-4 | |
| Dibromofluoromethane (S) | 104 | % | 80-122 | | 1 | | 05/28/10 14:23 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 80-124 | | 1 | | 05/28/10 14:23 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 80-123 | | 1 | | 05/28/10 14:23 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **5000** | ug/L | 2000 | 2000 | 1 | | 05/28/10 13:00 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **3.4** | mg/L | 1.0 | 0.37 | 1 | | 06/08/10 20:39 | 7440-44-0 | |

**Sample: MH-3** **Lab ID: 253802003** Collected: 05/26/10 13:30 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.047 | 0.013 | 1 | 06/01/10 12:25 | 06/03/10 23:12 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.047 | 0.015 | 1 | 06/01/10 12:25 | 06/03/10 23:12 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.047 | 0.021 | 1 | 06/01/10 12:25 | 06/03/10 23:12 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.047 | 0.017 | 1 | 06/01/10 12:25 | 06/03/10 23:12 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0095** | ug/L | 0.047 | 0.0095 | 1 | 06/01/10 12:25 | 06/03/10 23:12 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.047** | ug/L | 0.047 | 0.047 | 1 | 06/01/10 12:25 | 06/03/10 23:12 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.027** | ug/L | 0.047 | 0.027 | 1 | 06/01/10 12:25 | 06/03/10 23:12 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0027** | ug/L | 0.047 | 0.0027 | 1 | 06/01/10 12:25 | 06/03/10 23:12 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.047 | 0.024 | 1 | 06/01/10 12:25 | 06/03/10 23:12 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 78 | % | 64-120 | | 1 | 06/01/10 12:25 | 06/03/10 23:12 | 877-09-8 | |
| Decachlorobiphenyl (S) | 91 | % | 44-120 | | 1 | 06/01/10 12:25 | 06/03/10 23:12 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<35.2** | ug/L | 76.2 | 35.2 | 1 | 06/02/10 11:40 | 06/03/10 22:34 | | |
| Motor Oil Range SG | **104J** | ug/L | 381 | 58.1 | 1 | 06/02/10 11:40 | 06/03/10 22:34 | 64742-65-0 | |
| n-Octacosane (S) SG | 102 | % | 50-150 | | 1 | 06/02/10 11:40 | 06/03/10 22:34 | 630-02-4 | |
| o-Terphenyl (S) SG | 99 | % | 50-150 | | 1 | 06/02/10 11:40 | 06/03/10 22:34 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **<13.4** | ug/L | 50.0 | 13.4 | 1 | | 06/01/10 21:23 | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: MH-3** **Lab ID: 253802003** Collected: 05/26/10 13:30 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| a,a,a-Trifluorotoluene (S) | 109 | % | 50-150 | | 1 | | 06/01/10 21:23 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 106 | % | 50-150 | | 1 | | 06/01/10 21:23 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **1.2** | ug/L | 0.50 | 0.062 | 1 | 06/07/10 17:09 | 06/10/10 00:40 | 7440-38-2 | |
| Barium | **5.0** | ug/L | 0.30 | 0.043 | 1 | 06/07/10 17:09 | 06/10/10 00:40 | 7440-39-3 | B |
| Cadmium | **<0.020** | ug/L | 0.080 | 0.020 | 1 | 06/07/10 17:09 | 06/10/10 00:40 | 7440-43-9 | |
| Chromium | **0.78** | ug/L | 0.50 | 0.24 | 1 | 06/07/10 17:09 | 06/10/10 00:40 | 7440-47-3 | |
| Copper | **4.9** | ug/L | 0.50 | 0.20 | 1 | 06/07/10 17:09 | 06/10/10 00:40 | 7440-50-8 | |
| Lead | **0.89** | ug/L | 0.10 | 0.020 | 1 | 06/07/10 17:09 | 06/10/10 00:40 | 7439-92-1 | |
| Manganese | **3.7** | ug/L | 0.50 | 0.050 | 1 | 06/07/10 17:09 | 06/10/10 00:40 | 7439-96-5 | B |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 06/07/10 17:09 | 06/10/10 00:40 | 7440-22-4 | |
| Zinc | **21.6** | ug/L | 5.0 | 1.3 | 1 | 06/07/10 17:09 | 06/10/10 00:40 | 7440-66-6 | |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **1.2** | ug/L | 0.50 | 0.062 | 1 | 06/07/10 17:08 | 06/10/10 00:19 | 7440-38-2 | B |
| Barium, Dissolved | **4.8** | ug/L | 0.30 | 0.043 | 1 | 06/07/10 17:08 | 06/10/10 00:19 | 7440-39-3 | B |
| Cadmium, Dissolved | **<0.020** | ug/L | 0.080 | 0.020 | 1 | 06/07/10 17:08 | 06/10/10 00:19 | 7440-43-9 | |
| Chromium, Dissolved | **0.66** | ug/L | 0.50 | 0.24 | 1 | 06/07/10 17:08 | 06/10/10 00:19 | 7440-47-3 | |
| Copper, Dissolved | **3.7** | ug/L | 0.50 | 0.20 | 1 | 06/07/10 17:08 | 06/10/10 00:19 | 7440-50-8 | |
| Lead, Dissolved | **0.33** | ug/L | 0.10 | 0.020 | 1 | 06/07/10 17:08 | 06/10/10 00:19 | 7439-92-1 | B |
| Manganese, Dissolved | **1.3** | ug/L | 0.50 | 0.050 | 1 | 06/07/10 17:08 | 06/10/10 00:19 | 7439-96-5 | B |
| Silver, Dissolved | **0.13J** | ug/L | 0.50 | 0.071 | 1 | 06/07/10 17:08 | 06/10/10 00:19 | 7440-22-4 | |
| Zinc, Dissolved | **9.2** | ug/L | 5.0 | 1.3 | 1 | 06/07/10 17:08 | 06/10/10 00:19 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 06/01/10 11:27 | 06/01/10 15:27 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 06/01/10 11:27 | 06/01/10 15:50 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **0.0080J** | ug/L | 0.014 | 0.0060 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 90-12-0 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.014 | 0.012 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 91-57-6 | |
| Acenaphthene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 83-32-9 | |
| Acenaphthylene | **<0.00067** | ug/L | 0.014 | 0.00067 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 208-96-8 | |
| Anthracene | **<0.0012** | ug/L | 0.014 | 0.0012 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 56-55-3 | |
| Benzo(a)pyrene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 50-32-8 | |
| Benzo(b)fluoranthene | **0.060** | ug/L | 0.014 | 0.0019 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 205-99-2 | |
| Benzo(g,h,i)perylene | **<0.0016** | ug/L | 0.014 | 0.0016 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 191-24-2 | |
| Benzo(k)fluoranthene | **0.0059J** | ug/L | 0.014 | 0.00066 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 207-08-9 | |
| Chrysene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 218-01-9 | |
| Dibenz(a,h)anthracene | **0.0047J** | ug/L | 0.014 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 53-70-3 | |
| Fluoranthene | **<0.0018** | ug/L | 0.014 | 0.0018 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 206-44-0 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: MH-3** **Lab ID: 253802003** Collected: 05/26/10 13:30 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| Fluorene | **<0.0036** | ug/L | 0.014 | 0.0036 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 193-39-5 | |
| Naphthalene | **0.019** | ug/L | 0.014 | 0.0014 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 91-20-3 | |
| Phenanthrene | **<0.0036** | ug/L | 0.014 | 0.0036 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 85-01-8 | |
| Pyrene | **<0.0019** | ug/L | 0.014 | 0.0019 | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 129-00-0 | |
| 2-Fluorobiphenyl (S) | 57 | % | 40-106 | | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 321-60-8 | |
| Terphenyl-d14 (S) | 83 | % | 55-146 | | 1 | 05/28/10 12:20 | 06/02/10 15:10 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **<0.44** | ug/L | 4.8 | 0.44 | 1 | 05/28/10 12:20 | 06/08/10 18:59 | 85-68-7 | |
| Di-n-butylphthalate | **<0.45** | ug/L | 4.8 | 0.45 | 1 | 05/28/10 12:20 | 06/08/10 18:59 | 84-74-2 | |
| Di-n-octylphthalate | **<0.48** | ug/L | 4.8 | 0.48 | 1 | 05/28/10 12:20 | 06/08/10 18:59 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.8 | 0.41 | 1 | 05/28/10 12:20 | 06/08/10 18:59 | 84-66-2 | |
| Dimethylphthalate | **<0.27** | ug/L | 4.8 | 0.27 | 1 | 05/28/10 12:20 | 06/08/10 18:59 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.96** | ug/L | 4.8 | 0.96 | 1 | 05/28/10 12:20 | 06/08/10 18:59 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 89 | % | 38-121 | | 1 | 05/28/10 12:20 | 06/08/10 18:59 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 65 | % | 40-110 | | 1 | 05/28/10 12:20 | 06/08/10 18:59 | 321-60-8 | |
| Terphenyl-d14 (S) | 91 | % | 26-130 | | 1 | 05/28/10 12:20 | 06/08/10 18:59 | 1718-51-0 | |
| Phenol-d6 (S) | 28 | % | 11-120 | | 1 | 05/28/10 12:20 | 06/08/10 18:59 | 13127-88-3 | |
| 2-Fluorophenol (S) | 42 | % | 20-120 | | 1 | 05/28/10 12:20 | 06/08/10 18:59 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 107 | % | 37-120 | | 1 | 05/28/10 12:20 | 06/08/10 18:59 | 118-79-6 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 14:45 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 14:45 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 14:45 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 05/28/10 14:45 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 05/28/10 14:45 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 14:45 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 05/28/10 14:45 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 14:45 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 05/28/10 14:45 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 14:45 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 05/28/10 14:45 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 05/28/10 14:45 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 14:45 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 05/28/10 14:45 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 14:45 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 05/28/10 14:45 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:45 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:45 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:45 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 14:45 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 14:45 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 14:45 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 05/28/10 14:45 | 78-93-3 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: MH-3** **Lab ID: 253802003** Collected: 05/26/10 13:30 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 05/28/10 14:45 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 05/28/10 14:45 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 05/28/10 14:45 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 05/28/10 14:45 | 108-10-1 | |
| Acetone | **2.2J** | ug/L | 5.0 | 0.75 | 1 | | 05/28/10 14:45 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 14:45 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:45 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 05/28/10 14:45 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 14:45 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 05/28/10 14:45 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 05/28/10 14:45 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:45 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 05/28/10 14:45 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 14:45 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 14:45 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 14:45 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 14:45 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 14:45 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 05/28/10 14:45 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 05/28/10 14:45 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 14:45 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 14:45 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 14:45 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:45 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 05/28/10 14:45 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 14:45 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 14:45 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 14:45 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 05/28/10 14:45 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 14:45 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 05/28/10 14:45 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 05/28/10 14:45 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 05/28/10 14:45 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 05/28/10 14:45 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 05/28/10 14:45 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 05/28/10 14:45 | 179601-23-1 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 14:45 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:45 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 14:45 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 14:45 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 14:45 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 14:45 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 14:45 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 14:45 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 101 | % | 80-120 | | 1 | | 05/28/10 14:45 | 460-00-4 | |
| Dibromofluoromethane (S) | 105 | % | 80-122 | | 1 | | 05/28/10 14:45 | 1868-53-7 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: MH-3** **Lab ID: 253802003** Collected: 05/26/10 13:30 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 104 | % | 80-124 | | 1 | | 05/28/10 14:45 | 17060-07-0 | |
| Toluene-d8 (S) | 104 | % | 80-123 | | 1 | | 05/28/10 14:45 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **<2000** | ug/L | 2000 | 2000 | 1 | | 05/28/10 13:00 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **1.5** | mg/L | 1.0 | 0.37 | 1 | | 06/08/10 20:52 | 7440-44-0 | |

**Sample: SEP-001** **Lab ID: 253802004** Collected: 05/26/10 14:20 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.047 | 0.013 | 1 | 06/01/10 12:25 | 06/04/10 00:24 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.047 | 0.015 | 1 | 06/01/10 12:25 | 06/04/10 00:24 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.047 | 0.021 | 1 | 06/01/10 12:25 | 06/04/10 00:24 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.047 | 0.017 | 1 | 06/01/10 12:25 | 06/04/10 00:24 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0095** | ug/L | 0.047 | 0.0095 | 1 | 06/01/10 12:25 | 06/04/10 00:24 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.047** | ug/L | 0.047 | 0.047 | 1 | 06/01/10 12:25 | 06/04/10 00:24 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.027** | ug/L | 0.047 | 0.027 | 1 | 06/01/10 12:25 | 06/04/10 00:24 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0027** | ug/L | 0.047 | 0.0027 | 1 | 06/01/10 12:25 | 06/04/10 00:24 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.047 | 0.024 | 1 | 06/01/10 12:25 | 06/04/10 00:24 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 72 | % | 64-120 | | 1 | 06/01/10 12:25 | 06/04/10 00:24 | 877-09-8 | |
| Decachlorobiphenyl (S) | 83 | % | 44-120 | | 1 | 06/01/10 12:25 | 06/04/10 00:24 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **<35.2** | ug/L | 76.2 | 35.2 | 1 | 06/02/10 11:40 | 06/03/10 22:51 | | |
| Motor Oil Range SG | **140J** | ug/L | 381 | 58.1 | 1 | 06/02/10 11:40 | 06/03/10 22:51 | 64742-65-0 | |
| n-Octacosane (S) SG | 92 | % | 50-150 | | 1 | 06/02/10 11:40 | 06/03/10 22:51 | 630-02-4 | |
| o-Terphenyl (S) SG | 99 | % | 50-150 | | 1 | 06/02/10 11:40 | 06/03/10 22:51 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **16.2J** | ug/L | 50.0 | 13.4 | 1 | | 06/01/10 21:47 | | |
| a,a,a-Trifluorotoluene (S) | 102 | % | 50-150 | | 1 | | 06/01/10 21:47 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 96 | % | 50-150 | | 1 | | 06/01/10 21:47 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.56** | ug/L | 0.50 | 0.062 | 1 | 06/07/10 17:09 | 06/10/10 00:44 | 7440-38-2 | |
| Barium | **7.7** | ug/L | 0.30 | 0.043 | 1 | 06/07/10 17:09 | 06/10/10 00:44 | 7440-39-3 | B |
| Cadmium | **0.13** | ug/L | 0.080 | 0.020 | 1 | 06/07/10 17:09 | 06/10/10 00:44 | 7440-43-9 | B |
| Chromium | **0.92** | ug/L | 0.50 | 0.24 | 1 | 06/07/10 17:09 | 06/10/10 00:44 | 7440-47-3 | |
| Copper | **7.1** | ug/L | 0.50 | 0.20 | 1 | 06/07/10 17:09 | 06/10/10 00:44 | 7440-50-8 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: SEP-001** **Lab ID: 253802004** Collected: 05/26/10 14:20 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Lead | **1.9** | ug/L | 0.10 | 0.020 | 1 | 06/07/10 17:09 | 06/10/10 00:44 | 7439-92-1 | |
| Manganese | **38.9** | ug/L | 0.50 | 0.050 | 1 | 06/07/10 17:09 | 06/10/10 00:44 | 7439-96-5 | B |
| Silver | **<0.071** | ug/L | 0.50 | 0.071 | 1 | 06/07/10 17:09 | 06/10/10 00:44 | 7440-22-4 | |
| Zinc | **57.1** | ug/L | 5.0 | 1.3 | 1 | 06/07/10 17:09 | 06/10/10 00:44 | 7440-66-6 | |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **0.28J** | ug/L | 0.50 | 0.062 | 1 | 06/07/10 17:08 | 06/10/10 00:23 | 7440-38-2 | B |
| Barium, Dissolved | **5.1** | ug/L | 0.30 | 0.043 | 1 | 06/07/10 17:08 | 06/10/10 00:23 | 7440-39-3 | B |
| Cadmium, Dissolved | **0.055J** | ug/L | 0.080 | 0.020 | 1 | 06/07/10 17:08 | 06/10/10 00:23 | 7440-43-9 | |
| Chromium, Dissolved | **0.31J** | ug/L | 0.50 | 0.24 | 1 | 06/07/10 17:08 | 06/10/10 00:23 | 7440-47-3 | |
| Copper, Dissolved | **5.0** | ug/L | 0.50 | 0.20 | 1 | 06/07/10 17:08 | 06/10/10 00:23 | 7440-50-8 | |
| Lead, Dissolved | **0.096J** | ug/L | 0.10 | 0.020 | 1 | 06/07/10 17:08 | 06/10/10 00:23 | 7439-92-1 | B |
| Manganese, Dissolved | **6.5** | ug/L | 0.50 | 0.050 | 1 | 06/07/10 17:08 | 06/10/10 00:23 | 7439-96-5 | B |
| Silver, Dissolved | **0.077J** | ug/L | 0.50 | 0.071 | 1 | 06/07/10 17:08 | 06/10/10 00:23 | 7440-22-4 | |
| Zinc, Dissolved | **41.1** | ug/L | 5.0 | 1.3 | 1 | 06/07/10 17:08 | 06/10/10 00:23 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 06/01/10 11:27 | 06/01/10 15:33 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 06/01/10 11:27 | 06/01/10 15:56 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **<0.0061** | ug/L | 0.015 | 0.0061 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 90-12-0 | |
| 2-Methylnaphthalene | **<0.012** | ug/L | 0.015 | 0.012 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 91-57-6 | |
| Acenaphthene | **<0.00068** | ug/L | 0.015 | 0.00068 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 83-32-9 | |
| Acenaphthylene | **<0.00069** | ug/L | 0.015 | 0.00069 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 208-96-8 | |
| Anthracene | **<0.0013** | ug/L | 0.015 | 0.0013 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.015 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 56-55-3 | |
| Benzo(a)pyrene | **<0.00068** | ug/L | 0.015 | 0.00068 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 50-32-8 | |
| Benzo(b)fluoranthene | **0.060** | ug/L | 0.015 | 0.0019 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 205-99-2 | |
| Benzo(g,h,i)perylene | **<0.0017** | ug/L | 0.015 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 191-24-2 | |
| Benzo(k)fluoranthene | **0.0024J** | ug/L | 0.015 | 0.00068 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 207-08-9 | |
| Chrysene | **<0.0017** | ug/L | 0.015 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.0017** | ug/L | 0.015 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 53-70-3 | |
| Fluoranthene | **0.0064J** | ug/L | 0.015 | 0.0018 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 206-44-0 | |
| Fluorene | **<0.0037** | ug/L | 0.015 | 0.0037 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0015** | ug/L | 0.015 | 0.0015 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 193-39-5 | |
| Naphthalene | **0.0044J** | ug/L | 0.015 | 0.0014 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 91-20-3 | |
| Phenanthrene | **<0.0037** | ug/L | 0.015 | 0.0037 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 85-01-8 | |
| Pyrene | **0.0083J** | ug/L | 0.015 | 0.0019 | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 129-00-0 | |
| 2-Fluorobiphenyl (S) | 57 | % | 40-106 | | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 321-60-8 | |
| Terphenyl-d14 (S) | 86 | % | 55-146 | | 1 | 05/28/10 12:20 | 06/02/10 15:26 | 1718-51-0 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: SEP-001** **Lab ID: 253802004** Collected: 05/26/10 14:20 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **<0.44** | ug/L | 4.8 | 0.44 | 1 | 05/28/10 12:20 | 06/08/10 19:22 | 85-68-7 | |
| Di-n-butylphthalate | **<0.45** | ug/L | 4.8 | 0.45 | 1 | 05/28/10 12:20 | 06/08/10 19:22 | 84-74-2 | |
| Di-n-octylphthalate | **<0.48** | ug/L | 4.8 | 0.48 | 1 | 05/28/10 12:20 | 06/08/10 19:22 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.8 | 0.41 | 1 | 05/28/10 12:20 | 06/08/10 19:22 | 84-66-2 | |
| Dimethylphthalate | **<0.27** | ug/L | 4.8 | 0.27 | 1 | 05/28/10 12:20 | 06/08/10 19:22 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **<0.95** | ug/L | 4.8 | 0.95 | 1 | 05/28/10 12:20 | 06/08/10 19:22 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 79 | % | 38-121 | | 1 | 05/28/10 12:20 | 06/08/10 19:22 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 63 | % | 40-110 | | 1 | 05/28/10 12:20 | 06/08/10 19:22 | 321-60-8 | |
| Terphenyl-d14 (S) | 82 | % | 26-130 | | 1 | 05/28/10 12:20 | 06/08/10 19:22 | 1718-51-0 | |
| Phenol-d6 (S) | 21 | % | 11-120 | | 1 | 05/28/10 12:20 | 06/08/10 19:22 | 13127-88-3 | |
| 2-Fluorophenol (S) | 28 | % | 20-120 | | 1 | 05/28/10 12:20 | 06/08/10 19:22 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 88 | % | 37-120 | | 1 | 05/28/10 12:20 | 06/08/10 19:22 | 118-79-6 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 15:08 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 15:08 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 15:08 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 05/28/10 15:08 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 05/28/10 15:08 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 15:08 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 05/28/10 15:08 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 15:08 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 05/28/10 15:08 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 15:08 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 05/28/10 15:08 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 05/28/10 15:08 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 15:08 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 05/28/10 15:08 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 15:08 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 05/28/10 15:08 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:08 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:08 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:08 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 15:08 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 15:08 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 15:08 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 05/28/10 15:08 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 05/28/10 15:08 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 05/28/10 15:08 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 05/28/10 15:08 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 05/28/10 15:08 | 108-10-1 | |
| Acetone | **2.7J** | ug/L | 5.0 | 0.75 | 1 | | 05/28/10 15:08 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 15:08 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:08 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 05/28/10 15:08 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 15:08 | 75-27-4 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: SEP-001** **Lab ID: 253802004** Collected: 05/26/10 14:20 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 05/28/10 15:08 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 05/28/10 15:08 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:08 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 05/28/10 15:08 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 15:08 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 15:08 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 15:08 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 15:08 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 15:08 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 05/28/10 15:08 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 05/28/10 15:08 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 15:08 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 15:08 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 15:08 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:08 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 05/28/10 15:08 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 15:08 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 15:08 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 15:08 | 127-18-4 | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 05/28/10 15:08 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 15:08 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 05/28/10 15:08 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 05/28/10 15:08 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 05/28/10 15:08 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 05/28/10 15:08 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 05/28/10 15:08 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 05/28/10 15:08 | 179601-23-1 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 15:08 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:08 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 15:08 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 15:08 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 15:08 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 15:08 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 15:08 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:08 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 97 | % | 80-120 | | 1 | | 05/28/10 15:08 | 460-00-4 | |
| Dibromofluoromethane (S) | 106 | % | 80-122 | | 1 | | 05/28/10 15:08 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 80-124 | | 1 | | 05/28/10 15:08 | 17060-07-0 | |
| Toluene-d8 (S) | 103 | % | 80-123 | | 1 | | 05/28/10 15:08 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **5000** | ug/L | 2000 | 2000 | 1 | | 05/28/10 13:00 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **2.4** | mg/L | 1.0 | 0.37 | 1 | | 06/08/10 21:11 | 7440-44-0 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: CB-42** **Lab ID: 253802005** Collected: 05/26/10 14:45 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3510 | | | | | | | | |
| PCB-1016 (Aroclor 1016) | **<0.013** | ug/L | 0.048 | 0.013 | 1 | 06/01/10 12:25 | 06/04/10 01:36 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<0.015** | ug/L | 0.048 | 0.015 | 1 | 06/01/10 12:25 | 06/04/10 01:36 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<0.021** | ug/L | 0.048 | 0.021 | 1 | 06/01/10 12:25 | 06/04/10 01:36 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<0.017** | ug/L | 0.048 | 0.017 | 1 | 06/01/10 12:25 | 06/04/10 01:36 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<0.0095** | ug/L | 0.048 | 0.0095 | 1 | 06/01/10 12:25 | 06/04/10 01:36 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<0.048** | ug/L | 0.048 | 0.048 | 1 | 06/01/10 12:25 | 06/04/10 01:36 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<0.027** | ug/L | 0.048 | 0.027 | 1 | 06/01/10 12:25 | 06/04/10 01:36 | 11096-82-5 | |
| PCB-1262 (Aroclor 1262) | **<0.0028** | ug/L | 0.048 | 0.0028 | 1 | 06/01/10 12:25 | 06/04/10 01:36 | 37324-23-5 | |
| PCB-1268 (Aroclor 1268) | **<0.024** | ug/L | 0.048 | 0.024 | 1 | 06/01/10 12:25 | 06/04/10 01:36 | 11100-14-4 | |
| Tetrachloro-m-xylene (S) | 87 | % | 64-120 | | 1 | 06/01/10 12:25 | 06/04/10 01:36 | 877-09-8 | |
| Decachlorobiphenyl (S) | 60 | % | 44-120 | | 1 | 06/01/10 12:25 | 06/04/10 01:36 | 2051-24-3 | |
| **NWTPH-Dx GCS SG** | Analytical Method: NWTPH-Dx Preparation Method: EPA 3510 | | | | | | | | |
| Diesel Range SG | **71.3J** | ug/L | 75.8 | 35.1 | 1 | 06/02/10 11:40 | 06/03/10 23:07 | | |
| Motor Oil Range SG | **295J** | ug/L | 379 | 57.8 | 1 | 06/02/10 11:40 | 06/03/10 23:07 | 64742-65-0 | |
| n-Octacosane (S) SG | 91 | % | 50-150 | | 1 | 06/02/10 11:40 | 06/03/10 23:07 | 630-02-4 | |
| o-Terphenyl (S) SG | 91 | % | 50-150 | | 1 | 06/02/10 11:40 | 06/03/10 23:07 | 84-15-1 | |
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **21.2J** | ug/L | 50.0 | 13.4 | 1 | | 06/01/10 22:12 | | |
| a,a,a-Trifluorotoluene (S) | 104 | % | 50-150 | | 1 | | 06/01/10 22:12 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 100 | % | 50-150 | | 1 | | 06/01/10 22:12 | 460-00-4 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic | **0.42J** | ug/L | 0.50 | 0.062 | 1 | 06/07/10 17:09 | 06/10/10 01:09 | 7440-38-2 | |
| Barium | **9.0** | ug/L | 0.30 | 0.043 | 1 | 06/07/10 17:09 | 06/10/10 01:09 | 7440-39-3 | B |
| Cadmium | **0.18** | ug/L | 0.080 | 0.020 | 1 | 06/07/10 17:09 | 06/10/10 01:09 | 7440-43-9 | B |
| Chromium | **1.2** | ug/L | 0.50 | 0.24 | 1 | 06/07/10 17:09 | 06/10/10 01:09 | 7440-47-3 | |
| Copper | **6.5** | ug/L | 0.50 | 0.20 | 1 | 06/07/10 17:09 | 06/10/10 01:09 | 7440-50-8 | |
| Lead | **3.2** | ug/L | 0.10 | 0.020 | 1 | 06/07/10 17:09 | 06/10/10 01:09 | 7439-92-1 | |
| Manganese | **24.1** | ug/L | 0.50 | 0.050 | 1 | 06/07/10 17:09 | 06/10/10 01:09 | 7439-96-5 | B |
| Silver | **2.9** | ug/L | 0.50 | 0.071 | 1 | 06/07/10 17:09 | 06/10/10 01:09 | 7440-22-4 | B |
| Zinc | **42.1** | ug/L | 5.0 | 1.3 | 1 | 06/07/10 17:09 | 06/10/10 01:09 | 7440-66-6 | |
| **6020 MET ICPMS, Dissolved** | Analytical Method: EPA 6020 | | | | | | | | |
| Arsenic, Dissolved | **0.18J** | ug/L | 0.50 | 0.062 | 1 | 06/07/10 17:08 | 06/10/10 00:27 | 7440-38-2 | B |
| Barium, Dissolved | **2.3** | ug/L | 0.30 | 0.043 | 1 | 06/07/10 17:08 | 06/10/10 00:27 | 7440-39-3 | B |
| Cadmium, Dissolved | **0.044J** | ug/L | 0.080 | 0.020 | 1 | 06/07/10 17:08 | 06/10/10 00:27 | 7440-43-9 | |
| Chromium, Dissolved | **<0.24** | ug/L | 0.50 | 0.24 | 1 | 06/07/10 17:08 | 06/10/10 00:27 | 7440-47-3 | |
| Copper, Dissolved | **4.0** | ug/L | 0.50 | 0.20 | 1 | 06/07/10 17:08 | 06/10/10 00:27 | 7440-50-8 | |
| Lead, Dissolved | **0.10** | ug/L | 0.10 | 0.020 | 1 | 06/07/10 17:08 | 06/10/10 00:27 | 7439-92-1 | B |
| Manganese, Dissolved | **8.6** | ug/L | 0.50 | 0.050 | 1 | 06/07/10 17:08 | 06/10/10 00:27 | 7439-96-5 | B |
| Silver, Dissolved | **0.095J** | ug/L | 0.50 | 0.071 | 1 | 06/07/10 17:08 | 06/10/10 00:27 | 7440-22-4 | |
| Zinc, Dissolved | **23.1** | ug/L | 5.0 | 1.3 | 1 | 06/07/10 17:08 | 06/10/10 00:27 | 7440-66-6 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: CB-42** **Lab ID: 253802005** Collected: 05/26/10 14:45 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **<0.013** | ug/L | 0.20 | 0.013 | 1 | 06/01/10 11:27 | 06/01/10 15:36 | 7439-97-6 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury, Dissolved | **<0.072** | ug/L | 0.20 | 0.072 | 1 | 06/01/10 11:27 | 06/01/10 15:59 | 7439-97-6 | |
| **8270 MSSV Low Level PAH SIM** | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 | | | | | | | | |
| 1-Methylnaphthalene | **0.14** | ug/L | 0.014 | 0.0060 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 90-12-0 | |
| 2-Methylnaphthalene | **0.042** | ug/L | 0.014 | 0.012 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 91-57-6 | |
| Acenaphthene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 83-32-9 | |
| Acenaphthylene | **0.0068J** | ug/L | 0.014 | 0.00067 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 208-96-8 | |
| Anthracene | **<0.0012** | ug/L | 0.014 | 0.0012 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 120-12-7 | |
| Benzo(a)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 56-55-3 | |
| Benzo(a)pyrene | **<0.00066** | ug/L | 0.014 | 0.00066 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 50-32-8 | |
| Benzo(b)fluoranthene | **0.072** | ug/L | 0.014 | 0.0019 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 205-99-2 | |
| Benzo(g,h,i)perylene | **0.019** | ug/L | 0.014 | 0.0016 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 191-24-2 | |
| Benzo(k)fluoranthene | **0.0054J** | ug/L | 0.014 | 0.00066 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 207-08-9 | |
| Chrysene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 218-01-9 | |
| Dibenz(a,h)anthracene | **<0.0017** | ug/L | 0.014 | 0.0017 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 53-70-3 | |
| Fluoranthene | **0.027** | ug/L | 0.014 | 0.0018 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 206-44-0 | |
| Fluorene | **0.011J** | ug/L | 0.014 | 0.0036 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | **<0.0014** | ug/L | 0.014 | 0.0014 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 193-39-5 | |
| Naphthalene | **0.28** | ug/L | 0.014 | 0.0014 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 91-20-3 | |
| Phenanthrene | **0.037** | ug/L | 0.014 | 0.0036 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 85-01-8 | |
| Pyrene | **0.035** | ug/L | 0.014 | 0.0019 | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 129-00-0 | |
| 2-Fluorobiphenyl (S) | 58 | % | 40-106 | | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 321-60-8 | |
| Terphenyl-d14 (S) | 85 | % | 55-146 | | 1 | 05/28/10 12:20 | 06/02/10 15:43 | 1718-51-0 | |
| **8270 MSSV Phthalates** | Analytical Method: EPA 8270 Preparation Method: EPA 3520 | | | | | | | | |
| Butylbenzylphthalate | **3.5J** | ug/L | 4.8 | 0.44 | 1 | 05/28/10 12:20 | 06/08/10 20:07 | 85-68-7 | |
| Di-n-butylphthalate | **<0.45** | ug/L | 4.8 | 0.45 | 1 | 05/28/10 12:20 | 06/08/10 20:07 | 84-74-2 | |
| Di-n-octylphthalate | **<0.48** | ug/L | 4.8 | 0.48 | 1 | 05/28/10 12:20 | 06/08/10 20:07 | 117-84-0 | |
| Diethylphthalate | **<0.41** | ug/L | 4.8 | 0.41 | 1 | 05/28/10 12:20 | 06/08/10 20:07 | 84-66-2 | |
| Dimethylphthalate | **0.50J** | ug/L | 4.8 | 0.27 | 1 | 05/28/10 12:20 | 06/08/10 20:07 | 131-11-3 | |
| bis(2-Ethylhexyl)phthalate | **2.3J** | ug/L | 4.8 | 0.96 | 1 | 05/28/10 12:20 | 06/08/10 20:07 | 117-81-7 | |
| Nitrobenzene-d5 (S) | 80 | % | 38-121 | | 1 | 05/28/10 12:20 | 06/08/10 20:07 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 65 | % | 40-110 | | 1 | 05/28/10 12:20 | 06/08/10 20:07 | 321-60-8 | |
| Terphenyl-d14 (S) | 79 | % | 26-130 | | 1 | 05/28/10 12:20 | 06/08/10 20:07 | 1718-51-0 | |
| Phenol-d6 (S) | 25 | % | 11-120 | | 1 | 05/28/10 12:20 | 06/08/10 20:07 | 13127-88-3 | |
| 2-Fluorophenol (S) | 38 | % | 20-120 | | 1 | 05/28/10 12:20 | 06/08/10 20:07 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 105 | % | 37-120 | | 1 | 05/28/10 12:20 | 06/08/10 20:07 | 118-79-6 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 15:31 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 15:31 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 15:31 | 79-34-5 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: CB-42** **Lab ID: 253802005** Collected: 05/26/10 14:45 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 05/28/10 15:31 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 05/28/10 15:31 | 75-34-3 | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 15:31 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 05/28/10 15:31 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 15:31 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 05/28/10 15:31 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 15:31 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **0.53J** | ug/L | 1.0 | 0.086 | 1 | | 05/28/10 15:31 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 05/28/10 15:31 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 15:31 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 05/28/10 15:31 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 15:31 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 05/28/10 15:31 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:31 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:31 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:31 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 15:31 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 15:31 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 15:31 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 05/28/10 15:31 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 05/28/10 15:31 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 05/28/10 15:31 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 05/28/10 15:31 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 05/28/10 15:31 | 108-10-1 | |
| Acetone | **5.0** | ug/L | 5.0 | 0.75 | 1 | | 05/28/10 15:31 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 15:31 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:31 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 05/28/10 15:31 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 15:31 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 05/28/10 15:31 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 05/28/10 15:31 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:31 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 05/28/10 15:31 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 15:31 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 15:31 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 15:31 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 15:31 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 15:31 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 05/28/10 15:31 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 05/28/10 15:31 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 15:31 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 15:31 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 15:31 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:31 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 05/28/10 15:31 | 75-09-2 | |
| Naphthalene | **0.31J** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 15:31 | 91-20-3 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: CB-42** **Lab ID: 253802005** Collected: 05/26/10 14:45 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 15:31 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 15:31 | 127-18-4 | |
| Toluene | **0.60J** | ug/L | 1.0 | 0.21 | 1 | | 05/28/10 15:31 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 15:31 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 05/28/10 15:31 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 05/28/10 15:31 | 75-01-4 | |
| Xylene (Total) | **0.45J** | ug/L | 3.0 | 0.42 | 1 | | 05/28/10 15:31 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 05/28/10 15:31 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 05/28/10 15:31 | 10061-01-5 | |
| m&p-Xylene | **0.30J** | ug/L | 2.0 | 0.27 | 1 | | 05/28/10 15:31 | 179601-23-1 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 15:31 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:31 | 103-65-1 | |
| o-Xylene | **0.15J** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 15:31 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 15:31 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 15:31 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 15:31 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 15:31 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 15:31 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 98 | % | 80-120 | | 1 | | 05/28/10 15:31 | 460-00-4 | |
| Dibromofluoromethane (S) | 107 | % | 80-122 | | 1 | | 05/28/10 15:31 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 80-124 | | 1 | | 05/28/10 15:31 | 17060-07-0 | |
| Toluene-d8 (S) | 105 | % | 80-123 | | 1 | | 05/28/10 15:31 | 2037-26-5 | |
| **2540D Total Suspended Solids** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **13000** | ug/L | 2000 | 2000 | 1 | | 05/28/10 13:00 | | |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **3.9** | mg/L | 1.0 | 0.37 | 1 | | 06/08/10 21:18 | 7440-44-0 | |

**Sample: TB** **Lab ID: 253802006** Collected: 05/26/10 00:00 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **NWTPH-Gx GCV** | Analytical Method: NWTPH-Gx | | | | | | | | |
| Gasoline Range Organics | **<13.4** | ug/L | 50.0 | 13.4 | 1 | | 06/01/10 19:21 | | |
| a,a,a-Trifluorotoluene (S) | 107 | % | 50-150 | | 1 | | 06/01/10 19:21 | 98-08-8 | |
| 4-Bromofluorobenzene (S) | 102 | % | 50-150 | | 1 | | 06/01/10 19:21 | 460-00-4 | |
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 13:14 | 630-20-6 | |
| 1,1,1-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 13:14 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 13:14 | 79-34-5 | |
| 1,1,2-Trichloroethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 05/28/10 13:14 | 79-00-5 | |
| 1,1-Dichloroethane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 05/28/10 13:14 | 75-34-3 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: TB** **Lab ID: 253802006** Collected: 05/26/10 00:00 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| 1,1-Dichloroethene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 13:14 | 75-35-4 | |
| 1,1-Dichloropropene | **<0.094** | ug/L | 1.0 | 0.094 | 1 | | 05/28/10 13:14 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 13:14 | 87-61-6 | |
| 1,2,3-Trichloropropane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 05/28/10 13:14 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 13:14 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 05/28/10 13:14 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | **<0.79** | ug/L | 1.0 | 0.79 | 1 | | 05/28/10 13:14 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 13:14 | 106-93-4 | |
| 1,2-Dichlorobenzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 05/28/10 13:14 | 95-50-1 | |
| 1,2-Dichloroethane | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 13:14 | 107-06-2 | |
| 1,2-Dichloroethene (Total) | **<0.50** | ug/L | 2.0 | 0.50 | 1 | | 05/28/10 13:14 | 540-59-0 | |
| 1,2-Dichloropropane | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:14 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:14 | 108-67-8 | |
| 1,3-Dichlorobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:14 | 541-73-1 | |
| 1,3-Dichloropropane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 13:14 | 142-28-9 | |
| 1,4-Dichlorobenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 13:14 | 106-46-7 | |
| 2,2-Dichloropropane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 13:14 | 594-20-7 | |
| 2-Butanone (MEK) | **<1.6** | ug/L | 5.0 | 1.6 | 1 | | 05/28/10 13:14 | 78-93-3 | |
| 2-Chlorotoluene | **<0.098** | ug/L | 1.0 | 0.098 | 1 | | 05/28/10 13:14 | 95-49-8 | |
| 2-Hexanone | **<0.57** | ug/L | 5.0 | 0.57 | 1 | | 05/28/10 13:14 | 591-78-6 | |
| 4-Chlorotoluene | **<0.13** | ug/L | 1.0 | 0.13 | 1 | | 05/28/10 13:14 | 106-43-4 | |
| 4-Methyl-2-pentanone (MIBK) | **<0.32** | ug/L | 5.0 | 0.32 | 1 | | 05/28/10 13:14 | 108-10-1 | |
| Acetone | **<0.75** | ug/L | 5.0 | 0.75 | 1 | | 05/28/10 13:14 | 67-64-1 | |
| Benzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 13:14 | 71-43-2 | |
| Bromobenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:14 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 05/28/10 13:14 | 74-97-5 | |
| Bromodichloromethane | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 13:14 | 75-27-4 | |
| Bromoform | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 05/28/10 13:14 | 75-25-2 | |
| Bromomethane | **<0.072** | ug/L | 1.0 | 0.072 | 1 | | 05/28/10 13:14 | 74-83-9 | |
| Carbon disulfide | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:14 | 75-15-0 | |
| Carbon tetrachloride | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 05/28/10 13:14 | 56-23-5 | |
| Chlorobenzene | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 13:14 | 108-90-7 | |
| Chloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 13:14 | 75-00-3 | |
| Chloroform | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 13:14 | 67-66-3 | |
| Chloromethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 13:14 | 74-87-3 | |
| Dibromochloromethane | **<0.12** | ug/L | 1.0 | 0.12 | 1 | | 05/28/10 13:14 | 124-48-1 | |
| Dibromomethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 05/28/10 13:14 | 74-95-3 | |
| Dichlorodifluoromethane | **<0.19** | ug/L | 1.0 | 0.19 | 1 | | 05/28/10 13:14 | 75-71-8 | |
| Ethylbenzene | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 05/28/10 13:14 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 05/28/10 13:14 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 13:14 | 98-82-8 | |
| Methyl-tert-butyl ether | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:14 | 1634-04-4 | |
| Methylene chloride | **<0.26** | ug/L | 4.0 | 0.26 | 1 | | 05/28/10 13:14 | 75-09-2 | |
| Naphthalene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 13:14 | 91-20-3 | |
| Styrene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 13:14 | 100-42-5 | |
| Tetrachloroethene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 13:14 | 127-18-4 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# ANALYTICAL RESULTS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

**Sample: TB** **Lab ID: 253802006** Collected: 05/26/10 00:00 Received: 05/27/10 09:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 5030B/8260 | | | | | | | | |
| Toluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 05/28/10 13:14 | 108-88-3 | |
| Trichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 13:14 | 79-01-6 | |
| Trichlorofluoromethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 05/28/10 13:14 | 75-69-4 | |
| Vinyl chloride | **<0.050** | ug/L | 1.0 | 0.050 | 1 | | 05/28/10 13:14 | 75-01-4 | |
| Xylene (Total) | **<0.42** | ug/L | 3.0 | 0.42 | 1 | | 05/28/10 13:14 | 1330-20-7 | |
| cis-1,2-Dichloroethene | **<0.32** | ug/L | 1.0 | 0.32 | 1 | | 05/28/10 13:14 | 156-59-2 | |
| cis-1,3-Dichloropropene | **<0.086** | ug/L | 1.0 | 0.086 | 1 | | 05/28/10 13:14 | 10061-01-5 | |
| m&p-Xylene | **<0.27** | ug/L | 2.0 | 0.27 | 1 | | 05/28/10 13:14 | 179601-23-1 | |
| n-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 13:14 | 104-51-8 | |
| n-Propylbenzene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:14 | 103-65-1 | |
| o-Xylene | **<0.15** | ug/L | 1.0 | 0.15 | 1 | | 05/28/10 13:14 | 95-47-6 | |
| p-Isopropyltoluene | **<0.074** | ug/L | 1.0 | 0.074 | 1 | | 05/28/10 13:14 | 99-87-6 | |
| sec-Butylbenzene | **<0.10** | ug/L | 1.0 | 0.10 | 1 | | 05/28/10 13:14 | 135-98-8 | |
| tert-Butylbenzene | **<0.11** | ug/L | 1.0 | 0.11 | 1 | | 05/28/10 13:14 | 98-06-6 | |
| trans-1,2-Dichloroethene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 05/28/10 13:14 | 156-60-5 | |
| trans-1,3-Dichloropropene | **<0.16** | ug/L | 1.0 | 0.16 | 1 | | 05/28/10 13:14 | 10061-02-6 | |
| 4-Bromofluorobenzene (S) | 100 | % | 80-120 | | 1 | | 05/28/10 13:14 | 460-00-4 | |
| Dibromofluoromethane (S) | 104 | % | 80-122 | | 1 | | 05/28/10 13:14 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 102 | % | 80-124 | | 1 | | 05/28/10 13:14 | 17060-07-0 | |
| Toluene-d8 (S) | 103 | % | 80-123 | | 1 | | 05/28/10 13:14 | 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.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

QC Batch: OEXT/2224 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

METHOD BLANK: 28953 Matrix: Water
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/L | <0.014 | 0.050 | 06/03/10 18:29 | |
| PCB-1221 (Aroclor 1221) | ug/L | <0.016 | 0.050 | 06/03/10 18:29 | |
| PCB-1232 (Aroclor 1232) | ug/L | <0.022 | 0.050 | 06/03/10 18:29 | |
| PCB-1242 (Aroclor 1242) | ug/L | <0.018 | 0.050 | 06/03/10 18:29 | |
| PCB-1248 (Aroclor 1248) | ug/L | <0.010 | 0.050 | 06/03/10 18:29 | |
| PCB-1254 (Aroclor 1254) | ug/L | <0.050 | 0.050 | 06/03/10 18:29 | |
| PCB-1260 (Aroclor 1260) | ug/L | <0.028 | 0.050 | 06/03/10 18:29 | |
| PCB-1262 (Aroclor 1262) | ug/L | <0.0029 | 0.050 | 06/03/10 18:29 | |
| PCB-1268 (Aroclor 1268) | ug/L | <0.025 | 0.050 | 06/03/10 18:29 | |
| Decachlorobiphenyl (S) | % | 98 | 44-120 | 06/03/10 18:29 | |
| Tetrachloro-m-xylene (S) | % | 80 | 64-120 | 06/03/10 18:29 | |

LABORATORY CONTROL SAMPLE & LCSD: 28954 28955

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/L | .5 | 0.42 | 0.42 | 84 | 83 | 50-120 | .6 | | |
| PCB-1260 (Aroclor 1260) | ug/L | .5 | 0.44 | 0.47 | 87 | 94 | 59-120 | 7 | | |
| Decachlorobiphenyl (S) | % | | | | 82 | 87 | 44-120 | | | |
| Tetrachloro-m-xylene (S) | % | | | | 69 | 67 | 64-120 | | | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

QC Batch: OEXT/2228 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

METHOD BLANK: 29027 Matrix: Water
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Diesel Range SG | ug/L | <37.0 | 80.0 | 06/03/10 19:31 | |
| Motor Oil Range SG | ug/L | 107J | 400 | 06/03/10 19:31 | |
| n-Octacosane (S) SG | % | 87 | 50-150 | 06/03/10 19:31 | |
| o-Terphenyl (S) SG | % | 87 | 50-150 | 06/03/10 19:31 | |

LABORATORY CONTROL SAMPLE & LCSD: 29028 29029

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range SG | ug/L | 5000 | 4390 | 4340 | 88 | 87 | 51-147 | 1 | 30 | |
| Motor Oil Range SG | ug/L | 5000 | 4740 | 4760 | 95 | 95 | 20-160 | .6 | 30 | |
| n-Octacosane (S) SG | % | | | | 85 | 87 | 50-150 | | | |
| o-Terphenyl (S) SG | % | | | | 94 | 92 | 50-150 | | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

QC Batch: GCV/1562 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005, 253802006

METHOD BLANK: 28937 Matrix: Water
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005, 253802006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 13.7J | 50.0 | 06/01/10 15:17 | |
| 4-Bromofluorobenzene (S) | % | 89 | 50-150 | 06/01/10 15:17 | |
| a,a,a-Trifluorotoluene (S) | % | 101 | 50-150 | 06/01/10 15:17 | |

LABORATORY CONTROL SAMPLE: 28938

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 250 | 212 | 85 | 50-163 | |
| 4-Bromofluorobenzene (S) | % | | | 94 | 50-150 | |
| a,a,a-Trifluorotoluene (S) | % | | | 110 | 50-150 | |

SAMPLE DUPLICATE: 29044

| Parameter | Units | 253802001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | 17.8J | 14.6J | | 30 | |
| 4-Bromofluorobenzene (S) | % | 101 | 94 | 8 | | |
| a,a,a-Trifluorotoluene (S) | % | 107 | 103 | 4 | | |

SAMPLE DUPLICATE: 29045

| Parameter | Units | 253816001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | ug/L | ND | 15.0J | | 30 | |
| 4-Bromofluorobenzene (S) | % | 99 | 96 | 3 | | |
| a,a,a-Trifluorotoluene (S) | % | 104 | 101 | 3 | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

QC Batch: ICPM/20782 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

METHOD BLANK: 800841 Matrix: Water
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | ug/L | <0.062 | 0.50 | 06/10/10 01:01 | |
| Barium | ug/L | 0.17J | 0.30 | 06/10/10 01:01 | |
| Cadmium | ug/L | 0.026J | 0.080 | 06/10/10 01:01 | |
| Chromium | ug/L | <0.24 | 0.50 | 06/10/10 01:01 | |
| Copper | ug/L | <0.20 | 0.50 | 06/10/10 01:01 | |
| Lead | ug/L | <0.020 | 0.10 | 06/10/10 20:22 | |
| Manganese | ug/L | 0.44J | 0.50 | 06/10/10 01:01 | |
| Silver | ug/L | 0.30J | 0.50 | 06/10/10 01:01 | |
| Zinc | ug/L | <1.3 | 5.0 | 06/10/10 01:01 | |

LABORATORY CONTROL SAMPLE: 800842

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | ug/L | 80 | 73.8 | 92 | 80-120 | |
| Barium | ug/L | 80 | 74.7 | 93 | 80-120 | |
| Cadmium | ug/L | 80 | 77.3 | 97 | 80-120 | |
| Chromium | ug/L | 80 | 74.2 | 93 | 80-120 | |
| Copper | ug/L | 80 | 72.6 | 91 | 80-120 | |
| Lead | ug/L | 80 | 78.9 | 99 | 80-120 | |
| Manganese | ug/L | 80 | 73.4 | 92 | 80-120 | |
| Silver | ug/L | 80 | 78.2 | 98 | 80-120 | |
| Zinc | ug/L | 80 | 74.9 | 94 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 800843 800844

| Parameter | Units | 253802001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 0.11J | 80 | 80 | 72.1 | 71.8 | 90 | 90 | 75-125 | .5 | 20 | |
| Barium | ug/L | 3.9 | 80 | 80 | 76.6 | 76.2 | 91 | 90 | 75-125 | .5 | 20 | |
| Cadmium | ug/L | 0.052J | 80 | 80 | 75.4 | 74.4 | 94 | 93 | 75-125 | 1 | 20 | |
| Chromium | ug/L | 0.38J | 80 | 80 | 72.7 | 72.0 | 90 | 89 | 75-125 | 1 | 20 | |
| Copper | ug/L | 2.8 | 80 | 80 | 75.0 | 73.2 | 90 | 88 | 75-125 | 2 | 20 | |
| Lead | ug/L | 0.58 | 80 | 80 | 78.0 | 77.4 | 97 | 96 | 75-125 | .8 | 20 | |
| Manganese | ug/L | 5.8 | 80 | 80 | 78.6 | 77.0 | 91 | 89 | 75-125 | 2 | 20 | |
| Silver | ug/L | 3.4 | 80 | 80 | 74.0 | 77.4 | 88 | 93 | 75-125 | 5 | 20 | |
| Zinc | ug/L | 108 | 80 | 80 | 180 | 176 | 90 | 84 | 75-125 | 3 | 20 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

QC Batch: ICPM/20780 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

METHOD BLANK: 800827 Matrix: Water
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic, Dissolved | ug/L | 0.12J | 0.50 | 06/10/10 20:14 | |
| Barium, Dissolved | ug/L | 0.076J | 0.30 | 06/10/10 20:14 | |
| Cadmium, Dissolved | ug/L | <0.020 | 0.080 | 06/10/10 20:14 | |
| Chromium, Dissolved | ug/L | <0.24 | 0.50 | 06/10/10 20:14 | |
| Copper, Dissolved | ug/L | <0.20 | 0.50 | 06/10/10 20:14 | |
| Lead, Dissolved | ug/L | 0.063J | 0.10 | 06/10/10 20:14 | |
| Manganese, Dissolved | ug/L | 0.16J | 0.50 | 06/10/10 20:14 | |
| Silver, Dissolved | ug/L | <0.071 | 0.50 | 06/10/10 20:14 | |
| Zinc, Dissolved | ug/L | <1.3 | 5.0 | 06/10/10 20:14 | |

LABORATORY CONTROL SAMPLE: 800828

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic, Dissolved | ug/L | 80 | 75.1 | 94 | 85-115 | |
| Barium, Dissolved | ug/L | 80 | 75.8 | 95 | 85-115 | |
| Cadmium, Dissolved | ug/L | 80 | 74.2 | 93 | 85-115 | |
| Chromium, Dissolved | ug/L | 80 | 73.9 | 92 | 85-115 | |
| Copper, Dissolved | ug/L | 80 | 77.6 | 97 | 85-115 | |
| Lead, Dissolved | ug/L | 80 | 73.9 | 92 | 85-115 | |
| Manganese, Dissolved | ug/L | 80 | 75.4 | 94 | 85-115 | |
| Silver, Dissolved | ug/L | 80 | 75.3 | 94 | 85-115 | |
| Zinc, Dissolved | ug/L | 80 | 77.3 | 97 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 800829 800830

| Parameter | Units | 253802001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic, Dissolved | ug/L | 0.064J | 80 | 80 | 78.2 | 76.6 | 98 | 96 | 70-130 | 2 | 20 | |
| Barium, Dissolved | ug/L | 3.6 | 80 | 80 | 79.6 | 79.5 | 95 | 95 | 70-130 | .1 | 20 | |
| Cadmium, Dissolved | ug/L | 0.073J | 80 | 80 | 80.6 | 78.3 | 101 | 98 | 70-130 | 3 | 20 | |
| Chromium, Dissolved | ug/L | <0.24 | 80 | 80 | 77.1 | 76.2 | 96 | 95 | 70-130 | 1 | 20 | |
| Copper, Dissolved | ug/L | 2.2 | 80 | 80 | 78.6 | 77.2 | 96 | 94 | 70-130 | 2 | 20 | |
| Lead, Dissolved | ug/L | 0.094J | 80 | 80 | 80.4 | 79.7 | 100 | 100 | 70-130 | .9 | 20 | |
| Manganese, Dissolved | ug/L | 6.2 | 80 | 80 | 83.3 | 83.0 | 96 | 96 | 70-130 | .4 | 20 | |
| Silver, Dissolved | ug/L | <0.071 | 80 | 80 | 75.5 | 77.6 | 94 | 97 | 70-130 | 3 | 20 | |
| Zinc, Dissolved | ug/L | 103 | 80 | 80 | 179 | 179 | 96 | 95 | 70-130 | .2 | 20 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

QC Batch: MERP/1173 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

METHOD BLANK: 28945 Matrix: Water
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | <0.013 | 0.20 | 06/01/10 15:10 | |

LABORATORY CONTROL SAMPLE: 28946

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 5 | 5.2 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28947 28948

| Parameter | Units | 253802001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | <0.013 | 5 | 5 | 5.2 | 5.2 | 105 | 104 | 75-125 | .8 | 20 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

QC Batch: MERP/1174 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

METHOD BLANK: 28949 Matrix: Water
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | <0.072 | 0.20 | 06/01/10 15:38 | |

LABORATORY CONTROL SAMPLE: 28950

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | 5 | 5.1 | 102 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28951 28952

| Parameter | Units | 253802001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | <0.072 | 5 | 5 | 5.2 | 5.3 | 104 | 105 | 85-115 | 1 | 20 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

QC Batch: OEXT/2221 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Low Level PAH SIM
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

METHOD BLANK: 28810 Matrix: Water
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1-Methylnaphthalene | ug/L | <0.0063 | 0.015 | 06/02/10 13:47 | |
| 2-Methylnaphthalene | ug/L | <0.012 | 0.015 | 06/02/10 13:47 | |
| Acenaphthene | ug/L | <0.00070 | 0.015 | 06/02/10 13:47 | |
| Acenaphthylene | ug/L | <0.00071 | 0.015 | 06/02/10 13:47 | |
| Anthracene | ug/L | <0.0013 | 0.015 | 06/02/10 13:47 | |
| Benzo(a)anthracene | ug/L | <0.0018 | 0.015 | 06/02/10 13:47 | |
| Benzo(a)pyrene | ug/L | <0.00070 | 0.015 | 06/02/10 13:47 | |
| Benzo(b)fluoranthene | ug/L | <0.0020 | 0.015 | 06/02/10 13:47 | |
| Benzo(g,h,i)perylene | ug/L | <0.0017 | 0.015 | 06/02/10 13:47 | |
| Benzo(k)fluoranthene | ug/L | <0.00070 | 0.015 | 06/02/10 13:47 | |
| Chrysene | ug/L | <0.0018 | 0.015 | 06/02/10 13:47 | |
| Dibenz(a,h)anthracene | ug/L | <0.0018 | 0.015 | 06/02/10 13:47 | |
| Fluoranthene | ug/L | 0.0026J | 0.015 | 06/02/10 13:47 | |
| Fluorene | ug/L | <0.0038 | 0.015 | 06/02/10 13:47 | |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.0015 | 0.015 | 06/02/10 13:47 | |
| Naphthalene | ug/L | 0.0054J | 0.015 | 06/02/10 13:47 | |
| Phenanthrene | ug/L | <0.0038 | 0.015 | 06/02/10 13:47 | |
| Pyrene | ug/L | <0.0020 | 0.015 | 06/02/10 13:47 | |
| 2-Fluorobiphenyl (S) | % | 61 | 40-106 | 06/02/10 13:47 | |
| Terphenyl-d14 (S) | % | 95 | 55-146 | 06/02/10 13:47 | |

LABORATORY CONTROL SAMPLE & LCSD: 28811 28812

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | ug/L | 2 | 1.3 | 1.2 | 63 | 60 | 14-126 | 4 | 30 | |
| 2-Methylnaphthalene | ug/L | 2 | 1.2 | 1.2 | 62 | 58 | 30-121 | 7 | 30 | |
| Acenaphthene | ug/L | 2 | 1.2 | 1.1 | 62 | 56 | 32-124 | 9 | 30 | |
| Acenaphthylene | ug/L | 2 | 1.3 | 1.2 | 65 | 61 | 34-128 | 5 | 30 | |
| Anthracene | ug/L | 2 | 1.8 | 1.7 | 89 | 85 | 50-129 | 4 | 30 | |
| Benzo(a)anthracene | ug/L | 2 | 1.8 | 1.6 | 91 | 82 | 58-161 | 10 | 30 | |
| Benzo(a)pyrene | ug/L | 2 | 1.7 | 1.6 | 84 | 78 | 52-156 | 8 | 30 | |
| Benzo(b)fluoranthene | ug/L | 2 | 1.7 | 1.7 | 84 | 84 | 61-167 | .9 | 30 | |
| Benzo(g,h,i)perylene | ug/L | 2 | 1.8 | 1.7 | 90 | 86 | 56-167 | 4 | 30 | |
| Benzo(k)fluoranthene | ug/L | 2 | 1.9 | 1.8 | 93 | 88 | 60-149 | 6 | 30 | |
| Chrysene | ug/L | 2 | 1.7 | 1.6 | 85 | 79 | 61-141 | 8 | 30 | |
| Dibenz(a,h)anthracene | ug/L | 2 | 1.9 | 1.8 | 93 | 90 | 60-176 | 4 | 30 | |
| Fluoranthene | ug/L | 2 | 2.0 | 1.9 | 100 | 93 | 63-155 | 7 | 30 | |
| Fluorene | ug/L | 2 | 1.6 | 1.5 | 79 | 73 | 44-129 | 7 | 30 | |
| Indeno(1,2,3-cd)pyrene | ug/L | 2 | 1.7 | 1.6 | 85 | 81 | 51-159 | 5 | 30 | |
| Naphthalene | ug/L | 2 | 1.2 | 1.2 | 62 | 59 | 29-120 | 5 | 30 | |
| Phenanthrene | ug/L | 2 | 1.6 | 1.5 | 81 | 76 | 56-136 | 6 | 30 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

## QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

LABORATORY CONTROL SAMPLE & LCSD: 28811 28812

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Pyrene | ug/L | 2 | 2.0 | 1.8 | 98 | 90 | 61-143 | 9 | 30 | |
| 2-Fluorobiphenyl (S) | % | | | | 72 | 66 | 40-106 | | | |
| Terphenyl-d14 (S) | % | | | | 98 | 91 | 55-146 | | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

QC Batch: OEXT/2222 Analysis Method: EPA 8270
QC Batch Method: EPA 3520 Analysis Description: 8270 Water MSSV Phthalates
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

METHOD BLANK: 28813 Matrix: Water
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | ug/L | <1.0 | 5.0 | 06/08/10 14:08 | |
| Butylbenzylphthalate | ug/L | <0.46 | 5.0 | 06/08/10 14:08 | |
| Di-n-butylphthalate | ug/L | 0.86J | 5.0 | 06/08/10 14:08 | |
| Di-n-octylphthalate | ug/L | <0.50 | 5.0 | 06/08/10 14:08 | |
| Diethylphthalate | ug/L | 0.81J | 5.0 | 06/08/10 14:08 | |
| Dimethylphthalate | ug/L | <0.28 | 5.0 | 06/08/10 14:08 | |
| 2,4,6-Tribromophenol (S) | % | 91 | 37-120 | 06/08/10 14:08 | |
| 2-Fluorobiphenyl (S) | % | 66 | 40-110 | 06/08/10 14:08 | |
| 2-Fluorophenol (S) | % | 48 | 20-120 | 06/08/10 14:08 | |
| Nitrobenzene-d5 (S) | % | 99 | 38-121 | 06/08/10 14:08 | |
| Phenol-d6 (S) | % | 31 | 11-120 | 06/08/10 14:08 | |
| Terphenyl-d14 (S) | % | 107 | 26-130 | 06/08/10 14:08 | |

LABORATORY CONTROL SAMPLE & LCSD: 28814 28815

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | ug/L | 20 | 18.9 | 19.1 | 94 | 96 | 50-130 | 1 | 30 | |
| Butylbenzylphthalate | ug/L | 20 | 17.8 | 18.3 | 89 | 92 | 44-130 | 3 | 30 | |
| Di-n-butylphthalate | ug/L | 20 | 16.6 | 17.1 | 83 | 86 | 53-130 | 3 | 30 | |
| Di-n-octylphthalate | ug/L | 20 | 18.7 | 19.4 | 93 | 97 | 54-130 | 4 | 30 | |
| Diethylphthalate | ug/L | 20 | 15.8 | 16.0 | 79 | 80 | 20-126 | 2 | 30 | |
| Dimethylphthalate | ug/L | 20 | 15.1 | 15.4 | 75 | 77 | 54-130 | 2 | 30 | |
| 2,4,6-Tribromophenol (S) | % | | | | 90 | 96 | 37-120 | | | |
| 2-Fluorobiphenyl (S) | % | | | | 75 | 78 | 40-110 | | | |
| 2-Fluorophenol (S) | % | | | | 51 | 51 | 20-120 | | | |
| Nitrobenzene-d5 (S) | % | | | | 101 | 105 | 38-121 | | | |
| Phenol-d6 (S) | % | | | | 33 | 34 | 11-120 | | | |
| Terphenyl-d14 (S) | % | | | | 97 | 87 | 26-130 | | | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

QC Batch: MSV/2439 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005, 253802006

METHOD BLANK: 28798 Matrix: Water
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005, 253802006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.15 | 1.0 | 05/28/10 12:05 | |
| 1,1,1-Trichloroethane | ug/L | <0.20 | 1.0 | 05/28/10 12:05 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.22 | 1.0 | 05/28/10 12:05 | |
| 1,1,2-Trichloroethane | ug/L | <0.19 | 1.0 | 05/28/10 12:05 | |
| 1,1-Dichloroethane | ug/L | <0.23 | 1.0 | 05/28/10 12:05 | |
| 1,1-Dichloroethene | ug/L | <0.12 | 1.0 | 05/28/10 12:05 | |
| 1,1-Dichloropropene | ug/L | <0.094 | 1.0 | 05/28/10 12:05 | |
| 1,2,3-Trichlorobenzene | ug/L | 0.14J | 1.0 | 05/28/10 12:05 | |
| 1,2,3-Trichloropropane | ug/L | <0.37 | 1.0 | 05/28/10 12:05 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.15 | 1.0 | 05/28/10 12:05 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.086 | 1.0 | 05/28/10 12:05 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <0.79 | 1.0 | 05/28/10 12:05 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.20 | 1.0 | 05/28/10 12:05 | |
| 1,2-Dichlorobenzene | ug/L | <0.25 | 1.0 | 05/28/10 12:05 | |
| 1,2-Dichloroethane | ug/L | <0.074 | 1.0 | 05/28/10 12:05 | |
| 1,2-Dichloroethene (Total) | ug/L | <0.50 | 2.0 | 05/28/10 12:05 | |
| 1,2-Dichloropropane | ug/L | <0.16 | 1.0 | 05/28/10 12:05 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.16 | 1.0 | 05/28/10 12:05 | |
| 1,3-Dichlorobenzene | ug/L | <0.16 | 1.0 | 05/28/10 12:05 | |
| 1,3-Dichloropropane | ug/L | <0.22 | 1.0 | 05/28/10 12:05 | |
| 1,4-Dichlorobenzene | ug/L | <0.20 | 1.0 | 05/28/10 12:05 | |
| 2,2-Dichloropropane | ug/L | <0.27 | 1.0 | 05/28/10 12:05 | |
| 2-Butanone (MEK) | ug/L | <1.6 | 5.0 | 05/28/10 12:05 | |
| 2-Chlorotoluene | ug/L | <0.098 | 1.0 | 05/28/10 12:05 | |
| 2-Hexanone | ug/L | <0.57 | 5.0 | 05/28/10 12:05 | |
| 4-Chlorotoluene | ug/L | <0.13 | 1.0 | 05/28/10 12:05 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | <0.32 | 5.0 | 05/28/10 12:05 | |
| Acetone | ug/L | 1.2J | 5.0 | 05/28/10 12:05 | |
| Benzene | ug/L | <0.12 | 1.0 | 05/28/10 12:05 | |
| Bromobenzene | ug/L | <0.16 | 1.0 | 05/28/10 12:05 | |
| Bromochloromethane | ug/L | <0.34 | 1.0 | 05/28/10 12:05 | |
| Bromodichloromethane | ug/L | <0.11 | 1.0 | 05/28/10 12:05 | |
| Bromoform | ug/L | <0.23 | 1.0 | 05/28/10 12:05 | |
| Bromomethane | ug/L | <0.072 | 1.0 | 05/28/10 12:05 | |
| Carbon disulfide | ug/L | <0.16 | 1.0 | 05/28/10 12:05 | |
| Carbon tetrachloride | ug/L | <0.25 | 1.0 | 05/28/10 12:05 | |
| Chlorobenzene | ug/L | <0.12 | 1.0 | 05/28/10 12:05 | |
| Chloroethane | ug/L | <0.27 | 1.0 | 05/28/10 12:05 | |
| Chloroform | ug/L | <0.15 | 1.0 | 05/28/10 12:05 | |
| Chloromethane | ug/L | <0.20 | 1.0 | 05/28/10 12:05 | |
| cis-1,2-Dichloroethene | ug/L | <0.32 | 1.0 | 05/28/10 12:05 | |
| cis-1,3-Dichloropropene | ug/L | <0.086 | 1.0 | 05/28/10 12:05 | |
| Dibromochloromethane | ug/L | <0.12 | 1.0 | 05/28/10 12:05 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

METHOD BLANK: 28798 Matrix: Water

Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005, 253802006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Dibromomethane | ug/L | <0.18 | 1.0 | 05/28/10 12:05 | |
| Dichlorodifluoromethane | ug/L | <0.19 | 1.0 | 05/28/10 12:05 | |
| Ethylbenzene | ug/L | <0.20 | 1.0 | 05/28/10 12:05 | |
| Hexachloro-1,3-butadiene | ug/L | <0.27 | 1.0 | 05/28/10 12:05 | |
| Isopropylbenzene (Cumene) | ug/L | <0.11 | 1.0 | 05/28/10 12:05 | |
| m&p-Xylene | ug/L | <0.27 | 2.0 | 05/28/10 12:05 | |
| Methyl-tert-butyl ether | ug/L | <0.16 | 1.0 | 05/28/10 12:05 | |
| Methylene chloride | ug/L | <0.26 | 4.0 | 05/28/10 12:05 | |
| n-Butylbenzene | ug/L | <0.10 | 1.0 | 05/28/10 12:05 | |
| n-Propylbenzene | ug/L | <0.16 | 1.0 | 05/28/10 12:05 | |
| Naphthalene | ug/L | 0.13J | 1.0 | 05/28/10 12:05 | |
| o-Xylene | ug/L | <0.15 | 1.0 | 05/28/10 12:05 | |
| p-Isopropyltoluene | ug/L | <0.074 | 1.0 | 05/28/10 12:05 | |
| sec-Butylbenzene | ug/L | <0.10 | 1.0 | 05/28/10 12:05 | |
| Styrene | ug/L | <0.074 | 1.0 | 05/28/10 12:05 | |
| tert-Butylbenzene | ug/L | <0.11 | 1.0 | 05/28/10 12:05 | |
| Tetrachloroethene | ug/L | <0.10 | 1.0 | 05/28/10 12:05 | |
| Toluene | ug/L | <0.21 | 1.0 | 05/28/10 12:05 | |
| trans-1,2-Dichloroethene | ug/L | <0.22 | 1.0 | 05/28/10 12:05 | |
| trans-1,3-Dichloropropene | ug/L | <0.16 | 1.0 | 05/28/10 12:05 | |
| Trichloroethene | ug/L | <0.22 | 1.0 | 05/28/10 12:05 | |
| Trichlorofluoromethane | ug/L | <0.24 | 1.0 | 05/28/10 12:05 | |
| Vinyl chloride | ug/L | <0.050 | 1.0 | 05/28/10 12:05 | |
| Xylene (Total) | ug/L | <0.42 | 3.0 | 05/28/10 12:05 | |
| 1,2-Dichloroethane-d4 (S) | % | 102 | 80-124 | 05/28/10 12:05 | |
| 4-Bromofluorobenzene (S) | % | 100 | 80-120 | 05/28/10 12:05 | |
| Dibromofluoromethane (S) | % | 104 | 80-122 | 05/28/10 12:05 | |
| Toluene-d8 (S) | % | 103 | 80-123 | 05/28/10 12:05 | |

LABORATORY CONTROL SAMPLE: 28799

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 20 | 19.7 | 98 | 73-126 | |
| 1,1,1-Trichloroethane | ug/L | 20 | 22.4 | 112 | 69-135 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 20 | 17.9 | 89 | 69-123 | |
| 1,1,2-Trichloroethane | ug/L | 20 | 18.6 | 93 | 76-114 | |
| 1,1-Dichloroethane | ug/L | 20 | 20.3 | 101 | 74-124 | |
| 1,1-Dichloroethene | ug/L | 20 | 22.8 | 114 | 69-139 | |
| 1,1-Dichloropropene | ug/L | 20 | 23.2 | 116 | 77-134 | |
| 1,2,3-Trichlorobenzene | ug/L | 20 | 19.4 | 97 | 63-136 | |
| 1,2,3-Trichloropropane | ug/L | 20 | 17.6 | 88 | 66-118 | |
| 1,2,4-Trichlorobenzene | ug/L | 20 | 19.7 | 98 | 68-129 | |
| 1,2,4-Trimethylbenzene | ug/L | 20 | 20.1 | 100 | 72-126 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 20 | 15.8 | 79 | 64-124 | |
| 1,2-Dibromoethane (EDB) | ug/L | 20 | 18.3 | 91 | 78-117 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

LABORATORY CONTROL SAMPLE: 28799

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | ug/L | 20 | 19.1 | 96 | 74-118 | |
| 1,2-Dichloroethane | ug/L | 20 | 20.3 | 101 | 73-127 | |
| 1,2-Dichloroethene (Total) | ug/L | 40 | 45.1 | 113 | 60-140 | |
| 1,2-Dichloropropane | ug/L | 20 | 21.0 | 105 | 72-126 | |
| 1,3,5-Trimethylbenzene | ug/L | 20 | 20.2 | 101 | 68-129 | |
| 1,3-Dichlorobenzene | ug/L | 20 | 18.9 | 95 | 73-119 | |
| 1,3-Dichloropropane | ug/L | 20 | 18.2 | 91 | 74-119 | |
| 1,4-Dichlorobenzene | ug/L | 20 | 18.7 | 94 | 73-115 | |
| 2,2-Dichloropropane | ug/L | 20 | 24.4 | 122 | 46-157 | |
| 2-Butanone (MEK) | ug/L | 40 | 39.5 | 99 | 65-138 | |
| 2-Chlorotoluene | ug/L | 20 | 18.8 | 94 | 68-122 | |
| 2-Hexanone | ug/L | 40 | 38.4 | 96 | 60-135 | |
| 4-Chlorotoluene | ug/L | 20 | 19.1 | 95 | 70-122 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 40 | 41.3 | 103 | 70-135 | |
| Acetone | ug/L | 40 | 36.1 | 90 | 58-146 | |
| Benzene | ug/L | 20 | 21.5 | 107 | 75-124 | |
| Bromobenzene | ug/L | 20 | 17.8 | 89 | 74-116 | |
| Bromochloromethane | ug/L | 20 | 20.7 | 104 | 75-128 | |
| Bromodichloromethane | ug/L | 20 | 21.1 | 105 | 77-126 | |
| Bromoform | ug/L | 20 | 17.1 | 85 | 61-131 | |
| Bromomethane | ug/L | 20 | 22.1 | 110 | 58-139 | |
| Carbon disulfide | ug/L | 20 | 20.9 | 105 | 39-122 | |
| Carbon tetrachloride | ug/L | 20 | 21.1 | 105 | 67-136 | |
| Chlorobenzene | ug/L | 20 | 19.1 | 96 | 78-115 | |
| Chloroethane | ug/L | 20 | 22.7 | 114 | 58-137 | |
| Chloroform | ug/L | 20 | 21.2 | 106 | 75-124 | |
| Chloromethane | ug/L | 20 | 21.1 | 106 | 50-129 | |
| cis-1,2-Dichloroethene | ug/L | 20 | 22.9 | 115 | 78-126 | |
| cis-1,3-Dichloropropene | ug/L | 20 | 22.0 | 110 | 78-159 | |
| Dibromochloromethane | ug/L | 20 | 19.9 | 99 | 81-125 | |
| Dibromomethane | ug/L | 20 | 20.3 | 102 | 75-124 | |
| Dichlorodifluoromethane | ug/L | 20 | 19.2 | 96 | 30-140 | |
| Ethylbenzene | ug/L | 20 | 20.2 | 101 | 76-124 | |
| Hexachloro-1,3-butadiene | ug/L | 20 | 19.9 | 99 | 55-132 | |
| Isopropylbenzene (Cumene) | ug/L | 20 | 20.9 | 104 | 73-127 | |
| m&p-Xylene | ug/L | 40 | 41.4 | 103 | 75-124 | |
| Methyl-tert-butyl ether | ug/L | 20 | 20.8 | 104 | 72-130 | |
| Methylene chloride | ug/L | 20 | 20.1 | 100 | 69-124 | |
| n-Butylbenzene | ug/L | 20 | 21.1 | 106 | 65-131 | |
| n-Propylbenzene | ug/L | 20 | 19.7 | 99 | 69-129 | |
| Naphthalene | ug/L | 20 | 19.2 | 96 | 69-135 | |
| o-Xylene | ug/L | 20 | 20.8 | 104 | 76-121 | |
| p-Isopropyltoluene | ug/L | 20 | 20.8 | 104 | 69-133 | |
| sec-Butylbenzene | ug/L | 20 | 20.5 | 102 | 67-132 | |
| Styrene | ug/L | 20 | 20.8 | 104 | 76-121 | |
| tert-Butylbenzene | ug/L | 20 | 17.8 | 89 | 66-132 | |
| Tetrachloroethene | ug/L | 20 | 18.8 | 94 | 70-127 | |
| Toluene | ug/L | 20 | 19.9 | 100 | 75-124 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

LABORATORY CONTROL SAMPLE: 28799

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | ug/L | 20 | 22.1 | 111 | 72-129 | |
| trans-1,3-Dichloropropene | ug/L | 20 | 16.8 | 84 | 69-122 | |
| Trichloroethene | ug/L | 20 | 20.9 | 105 | 78-124 | |
| Trichlorofluoromethane | ug/L | 20 | 26.9 | 134 | 60-147 | |
| Vinyl chloride | ug/L | 20 | 22.5 | 112 | 56-136 | |
| Xylene (Total) | ug/L | 60 | 62.2 | 104 | 76-123 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 102 | 80-124 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 80-120 | |
| Dibromofluoromethane (S) | % | | | 107 | 80-122 | |
| Toluene-d8 (S) | % | | | 102 | 80-123 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28801 28802

| Parameter | Units | 253813001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 1000 | 1000 | 984 | 1020 | 98 | 102 | 73-126 | 4 | 30 | |
| 1,1,1-Trichloroethane | ug/L | ND | 1000 | 1000 | 1110 | 1150 | 111 | 115 | 69-135 | 4 | 30 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 1000 | 1000 | 951 | 976 | 95 | 98 | 69-123 | 3 | 30 | |
| 1,1,2-Trichloroethane | ug/L | ND | 1000 | 1000 | 981 | 1010 | 98 | 101 | 76-114 | 3 | 30 | |
| 1,1-Dichloroethane | ug/L | ND | 1000 | 1000 | 1040 | 1090 | 104 | 109 | 74-124 | 4 | 30 | |
| 1,1-Dichloroethene | ug/L | ND | 1000 | 1000 | 1210 | 1270 | 121 | 127 | 69-139 | 5 | 30 | |
| 1,1-Dichloropropene | ug/L | ND | 1000 | 1000 | 1210 | 1260 | 121 | 126 | 77-134 | 4 | 30 | |
| 1,2,3-Trichlorobenzene | ug/L | ND | 1000 | 1000 | 1010 | 985 | 101 | 98 | 63-136 | 2 | 30 | |
| 1,2,3-Trichloropropane | ug/L | ND | 1000 | 1000 | 916 | 932 | 92 | 93 | 66-118 | 2 | 30 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 1000 | 1000 | 1000 | 1010 | 100 | 101 | 68-129 | .8 | 30 | |
| 1,2,4-Trimethylbenzene | ug/L | 102 | 1000 | 1000 | 1130 | 1170 | 103 | 107 | 72-126 | 4 | 30 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 1000 | 1000 | 843 | 877 | 84 | 88 | 64-124 | 4 | 30 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 1000 | 1000 | 956 | 984 | 96 | 98 | 78-117 | 3 | 30 | |
| 1,2-Dichlorobenzene | ug/L | ND | 1000 | 1000 | 994 | 1010 | 99 | 101 | 74-118 | 2 | 30 | |
| 1,2-Dichloroethane | ug/L | ND | 1000 | 1000 | 1260 | 1300 | 126 | 130 | 73-127 | 3 | 30 | M0 |
| 1,2-Dichloroethene (Total) | ug/L | ND | 2000 | 2000 | 2300 | 2390 | 115 | 119 | 60-140 | 3 | 30 | |
| 1,2-Dichloropropane | ug/L | ND | 1000 | 1000 | 1100 | 1140 | 110 | 114 | 72-126 | 4 | 30 | |
| 1,3,5-Trimethylbenzene | ug/L | 57.8 | 1000 | 1000 | 1100 | 1150 | 104 | 109 | 68-129 | 4 | 30 | |
| 1,3-Dichlorobenzene | ug/L | ND | 1000 | 1000 | 986 | 1020 | 99 | 102 | 73-119 | 3 | 30 | |
| 1,3-Dichloropropane | ug/L | ND | 1000 | 1000 | 984 | 1000 | 98 | 100 | 74-119 | 2 | 30 | |
| 1,4-Dichlorobenzene | ug/L | ND | 1000 | 1000 | 955 | 996 | 95 | 100 | 73-115 | 4 | 30 | |
| 2,2-Dichloropropane | ug/L | ND | 1000 | 1000 | 1180 | 1210 | 118 | 121 | 46-157 | 2 | 30 | |
| 2-Butanone (MEK) | ug/L | ND | 2000 | 2000 | 2170 | 2180 | 108 | 109 | 65-138 | .5 | 30 | |
| 2-Chlorotoluene | ug/L | ND | 1000 | 1000 | 998 | 1050 | 100 | 105 | 68-122 | 5 | 30 | |
| 2-Hexanone | ug/L | ND | 2000 | 2000 | 2040 | 2050 | 102 | 103 | 60-135 | .7 | 30 | |
| 4-Chlorotoluene | ug/L | ND | 1000 | 1000 | 1000 | 1050 | 100 | 105 | 70-122 | 4 | 30 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 2000 | 2000 | 2270 | 2280 | 113 | 114 | 70-135 | .6 | 30 | |
| Acetone | ug/L | ND | 2000 | 2000 | 1900 | 2100 | 95 | 105 | 58-146 | 10 | 30 | |
| Benzene | ug/L | 10800 | 1000 | 1000 | 10300 | 10800 | -50 | -9 | 75-124 | 4 | 30 | M0 |
| Bromobenzene | ug/L | ND | 1000 | 1000 | 945 | 979 | 94 | 98 | 74-116 | 4 | 30 | |
| Bromochloromethane | ug/L | ND | 1000 | 1000 | 1100 | 1120 | 110 | 112 | 75-128 | 2 | 30 | |
| Bromodichloromethane | ug/L | ND | 1000 | 1000 | 1080 | 1140 | 108 | 114 | 77-126 | 6 | 30 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28801 28802

| Parameter | Units | 253813001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | ug/L | ND | 1000 | 1000 | 826 | 865 | 83 | 87 | 61-131 | 5 | 30 | |
| Bromomethane | ug/L | ND | 1000 | 1000 | 1040 | 1080 | 104 | 108 | 58-139 | 4 | 30 | |
| Carbon disulfide | ug/L | ND | 1000 | 1000 | 1020 | 1070 | 102 | 107 | 39-122 | 5 | 30 | |
| Carbon tetrachloride | ug/L | ND | 1000 | 1000 | 1040 | 1100 | 104 | 110 | 67-136 | 6 | 30 | |
| Chlorobenzene | ug/L | ND | 1000 | 1000 | 981 | 1010 | 98 | 101 | 78-115 | 3 | 30 | |
| Chloroethane | ug/L | ND | 1000 | 1000 | 1050 | 1160 | 105 | 116 | 58-137 | 10 | 30 | |
| Chloroform | ug/L | ND | 1000 | 1000 | 1100 | 1150 | 110 | 115 | 75-124 | 5 | 30 | |
| Chloromethane | ug/L | ND | 1000 | 1000 | 1020 | 1050 | 102 | 105 | 50-129 | 3 | 30 | |
| cis-1,2-Dichloroethene | ug/L | ND | 1000 | 1000 | 1180 | 1210 | 118 | 121 | 78-126 | 3 | 30 | |
| cis-1,3-Dichloropropene | ug/L | ND | 1000 | 1000 | 1180 | 1200 | 118 | 120 | 78-159 | 2 | 30 | |
| Dibromochloromethane | ug/L | ND | 1000 | 1000 | 996 | 1020 | 100 | 102 | 81-125 | 2 | 30 | |
| Dibromomethane | ug/L | ND | 1000 | 1000 | 1060 | 1100 | 106 | 110 | 75-124 | 3 | 30 | |
| Dichlorodifluoromethane | ug/L | ND | 1000 | 1000 | 872 | 930 | 87 | 93 | 30-140 | 6 | 30 | |
| Ethylbenzene | ug/L | 514 | 1000 | 1000 | 1480 | 1540 | 97 | 103 | 76-124 | 4 | 30 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 1000 | 1000 | 990 | 1010 | 99 | 101 | 55-132 | 2 | 30 | |
| Isopropylbenzene (Cumene) | ug/L | 95.2 | 1000 | 1000 | 1120 | 1180 | 103 | 108 | 73-127 | 5 | 30 | |
| m&p-Xylene | ug/L | 293 | 2000 | 2000 | 2350 | 2460 | 103 | 108 | 75-124 | 5 | 30 | |
| Methyl-tert-butyl ether | ug/L | 377 | 1000 | 1000 | 1440 | 1460 | 107 | 109 | 72-130 | 1 | 30 | |
| Methylene chloride | ug/L | ND | 1000 | 1000 | 1010 | 1110 | 101 | 111 | 69-124 | 9 | 30 | |
| n-Butylbenzene | ug/L | ND | 1000 | 1000 | 1090 | 1130 | 109 | 113 | 65-131 | 4 | 30 | |
| n-Propylbenzene | ug/L | 124 | 1000 | 1000 | 1100 | 1170 | 98 | 104 | 69-129 | 5 | 30 | |
| Naphthalene | ug/L | 246 | 1000 | 1000 | 1280 | 1280 | 104 | 103 | 69-135 | .5 | 30 | |
| o-Xylene | ug/L | ND | 1000 | 1000 | 1070 | 1120 | 105 | 110 | 76-121 | 4 | 30 | |
| p-Isopropyltoluene | ug/L | ND | 1000 | 1000 | 1050 | 1080 | 105 | 108 | 69-133 | 3 | 30 | |
| sec-Butylbenzene | ug/L | ND | 1000 | 1000 | 1070 | 1110 | 106 | 110 | 67-132 | 4 | 30 | |
| Styrene | ug/L | ND | 1000 | 1000 | 1070 | 1120 | 107 | 112 | 76-121 | 4 | 30 | |
| tert-Butylbenzene | ug/L | ND | 1000 | 1000 | 914 | 949 | 91 | 95 | 66-132 | 4 | 30 | |
| Tetrachloroethene | ug/L | ND | 1000 | 1000 | 950 | 995 | 95 | 100 | 70-127 | 5 | 30 | |
| Toluene | ug/L | 56.8 | 1000 | 1000 | 1070 | 1110 | 102 | 105 | 75-124 | 3 | 30 | |
| trans-1,2-Dichloroethene | ug/L | ND | 1000 | 1000 | 1130 | 1170 | 113 | 117 | 72-129 | 4 | 30 | |
| trans-1,3-Dichloropropene | ug/L | ND | 1000 | 1000 | 891 | 923 | 89 | 92 | 69-122 | 3 | 30 | |
| Trichloroethene | ug/L | ND | 1000 | 1000 | 1090 | 1150 | 109 | 115 | 78-124 | 6 | 30 | |
| Trichlorofluoromethane | ug/L | ND | 1000 | 1000 | 1240 | 1320 | 124 | 132 | 60-147 | 6 | 30 | |
| Vinyl chloride | ug/L | ND | 1000 | 1000 | 1050 | 1110 | 105 | 111 | 56-136 | 5 | 30 | |
| Xylene (Total) | ug/L | 311 | 3000 | 3000 | 3420 | 3580 | 104 | 109 | 76-123 | 5 | 30 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 104 | 104 | 80-124 | | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 101 | 102 | 80-120 | | | |
| Dibromofluoromethane (S) | % | | | | | | 107 | 107 | 80-122 | | | |
| Toluene-d8 (S) | % | | | | | | 102 | 101 | 80-123 | | | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

QC Batch: WET/2025 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

METHOD BLANK: 28785 Matrix: Water
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Total Suspended Solids | ug/L | <2000 | 2000 | 05/28/10 13:00 | |

SAMPLE DUPLICATE: 28786

| Parameter | Units | 253782001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | ug/L | 10.0 mg/L | 9000 | 11 | 20 | |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA

Project: 00922 - PDX Terminal
Pace Project No.: 253802

QC Batch: WETA/13151 Analysis Method: EPA 9060
QC Batch Method: EPA 9060 Analysis Description: 9060 TOC
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

METHOD BLANK: 655156 Matrix: Water
Associated Lab Samples: 253802001, 253802002, 253802003, 253802004, 253802005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | <0.37 | 1.0 | 06/08/10 20:13 | |

LABORATORY CONTROL SAMPLE: 655157

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 5 | 4.9 | 98 | 84-120 | |

MATRIX SPIKE SAMPLE: 655159

| Parameter | Units | 253802002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 3.4 | 5 | 8.9 | 111 | 59-144 | |

SAMPLE DUPLICATE: 655158

| Parameter | Units | 253802001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 2.4 | 2.1 | 12 | 25 | |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALIFIERS

Project: 00922 - PDX Terminal
Pace Project No.: 253802

## 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

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

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

## LABORATORIES

| | |
|---|---|
| PASI-K | Pace Analytical Services - Kansas City |
| PASI-M | Pace Analytical Services - Minneapolis |
| PASI-S | Pace Analytical Services - Seattle |

## SAMPLE QUALIFIERS

Sample: 253802001

[1] The samples were received outside of required temperature range. Analysis was completed upon client approval.

Sample: 253802002

[1] The samples were received outside of required temperature range. Analysis was completed upon client approval.

Sample: 253802003

[1] The samples were received outside of required temperature range. Analysis was completed upon client approval.

Sample: 253802004

[1] The samples were received outside of required temperature range. Analysis was completed upon client approval.

Sample: 253802005

[1] The samples were received outside of required temperature range. Analysis was completed upon client approval.

## BATCH QUALIFIERS

Batch: GCSV/1636

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSSV/1305

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: GCSV/1640

[1] A sample duplicate was not performed for this batch due to insufficient sample volume.

## ANALYTE QUALIFIERS

| | |
|---|---|
| B | Analyte was detected in the associated method blank. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |



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

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 00922 - PDX Terminal
Pace Project No.: 253802

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **253802001** | **MH-12 (4in)** | EPA 3510 | OEXT/2224 | EPA 8082 | GCSV/1636 |
| **253802002** | **MH-12 (12in)** | EPA 3510 | OEXT/2224 | EPA 8082 | GCSV/1636 |
| **253802003** | **MH-3** | EPA 3510 | OEXT/2224 | EPA 8082 | GCSV/1636 |
| **253802004** | **SEP-001** | EPA 3510 | OEXT/2224 | EPA 8082 | GCSV/1636 |
| **253802005** | **CB-42** | EPA 3510 | OEXT/2224 | EPA 8082 | GCSV/1636 |
| **253802001** | **MH-12 (4in)** | EPA 3510 | OEXT/2228 | NWTPH-Dx | GCSV/1640 |
| **253802002** | **MH-12 (12in)** | EPA 3510 | OEXT/2228 | NWTPH-Dx | GCSV/1640 |
| **253802003** | **MH-3** | EPA 3510 | OEXT/2228 | NWTPH-Dx | GCSV/1640 |
| **253802004** | **SEP-001** | EPA 3510 | OEXT/2228 | NWTPH-Dx | GCSV/1640 |
| **253802005** | **CB-42** | EPA 3510 | OEXT/2228 | NWTPH-Dx | GCSV/1640 |
| **253802001** | **MH-12 (4in)** | NWTPH-Gx | GCV/1562 | | |
| **253802002** | **MH-12 (12in)** | NWTPH-Gx | GCV/1562 | | |
| **253802003** | **MH-3** | NWTPH-Gx | GCV/1562 | | |
| **253802004** | **SEP-001** | NWTPH-Gx | GCV/1562 | | |
| **253802005** | **CB-42** | NWTPH-Gx | GCV/1562 | | |
| **253802006** | **TB** | NWTPH-Gx | GCV/1562 | | |
| **253802001** | **MH-12 (4in)** | EPA 6020 | ICPM/20782 | EPA 6020 | ICPM/8514 |
| **253802002** | **MH-12 (12in)** | EPA 6020 | ICPM/20782 | EPA 6020 | ICPM/8514 |
| **253802003** | **MH-3** | EPA 6020 | ICPM/20782 | EPA 6020 | ICPM/8514 |
| **253802004** | **SEP-001** | EPA 6020 | ICPM/20782 | EPA 6020 | ICPM/8514 |
| **253802005** | **CB-42** | EPA 6020 | ICPM/20782 | EPA 6020 | ICPM/8514 |
| **253802001** | **MH-12 (4in)** | EPA 6020 | ICPM/20780 | EPA 6020 | ICPM/8515 |
| **253802002** | **MH-12 (12in)** | EPA 6020 | ICPM/20780 | EPA 6020 | ICPM/8515 |
| **253802003** | **MH-3** | EPA 6020 | ICPM/20780 | EPA 6020 | ICPM/8515 |
| **253802004** | **SEP-001** | EPA 6020 | ICPM/20780 | EPA 6020 | ICPM/8515 |
| **253802005** | **CB-42** | EPA 6020 | ICPM/20780 | EPA 6020 | ICPM/8515 |
| **253802001** | **MH-12 (4in)** | EPA 7470 | MERP/1173 | EPA 7470 | MERC/1188 |
| **253802002** | **MH-12 (12in)** | EPA 7470 | MERP/1173 | EPA 7470 | MERC/1188 |
| **253802003** | **MH-3** | EPA 7470 | MERP/1173 | EPA 7470 | MERC/1188 |
| **253802004** | **SEP-001** | EPA 7470 | MERP/1173 | EPA 7470 | MERC/1188 |
| **253802005** | **CB-42** | EPA 7470 | MERP/1173 | EPA 7470 | MERC/1188 |
| **253802001** | **MH-12 (4in)** | EPA 7470 | MERP/1174 | EPA 7470 | MERC/1189 |
| **253802002** | **MH-12 (12in)** | EPA 7470 | MERP/1174 | EPA 7470 | MERC/1189 |
| **253802003** | **MH-3** | EPA 7470 | MERP/1174 | EPA 7470 | MERC/1189 |
| **253802004** | **SEP-001** | EPA 7470 | MERP/1174 | EPA 7470 | MERC/1189 |
| **253802005** | **CB-42** | EPA 7470 | MERP/1174 | EPA 7470 | MERC/1189 |
| **253802001** | **MH-12 (4in)** | EPA 3510 | OEXT/2221 | EPA 8270 by SIM | MSSV/1305 |
| **253802002** | **MH-12 (12in)** | EPA 3510 | OEXT/2221 | EPA 8270 by SIM | MSSV/1305 |
| **253802003** | **MH-3** | EPA 3510 | OEXT/2221 | EPA 8270 by SIM | MSSV/1305 |
| **253802004** | **SEP-001** | EPA 3510 | OEXT/2221 | EPA 8270 by SIM | MSSV/1305 |
| **253802005** | **CB-42** | EPA 3510 | OEXT/2221 | EPA 8270 by SIM | MSSV/1305 |
| **253802001** | **MH-12 (4in)** | EPA 3520 | OEXT/2222 | EPA 8270 | MSSV/1306 |
| **253802002** | **MH-12 (12in)** | EPA 3520 | OEXT/2222 | EPA 8270 | MSSV/1306 |
| **253802003** | **MH-3** | EPA 3520 | OEXT/2222 | EPA 8270 | MSSV/1306 |
| **253802004** | **SEP-001** | EPA 3520 | OEXT/2222 | EPA 8270 | MSSV/1306 |



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

**Pace Analytical Services, Inc.**
940 South Harney
Seattle, WA 98108
(206)767-5060

# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 00922 - PDX Terminal
Pace Project No.: 253802

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **253802005** | **CB-42** | EPA 3520 | OEXT/2222 | EPA 8270 | MSSV/1306 |
| **253802001** | **MH-12 (4in)** | EPA 5030B/8260 | MSV/2439 | | |
| **253802002** | **MH-12 (12in)** | EPA 5030B/8260 | MSV/2439 | | |
| **253802003** | **MH-3** | EPA 5030B/8260 | MSV/2439 | | |
| **253802004** | **SEP-001** | EPA 5030B/8260 | MSV/2439 | | |
| **253802005** | **CB-42** | EPA 5030B/8260 | MSV/2439 | | |
| **253802006** | **TB** | EPA 5030B/8260 | MSV/2439 | | |
| **253802001** | **MH-12 (4in)** | SM 2540D | WET/2025 | | |
| **253802002** | **MH-12 (12in)** | SM 2540D | WET/2025 | | |
| **253802003** | **MH-3** | SM 2540D | WET/2025 | | |
| **253802004** | **SEP-001** | SM 2540D | WET/2025 | | |
| **253802005** | **CB-42** | SM 2540D | WET/2025 | | |
| **253802001** | **MH-12 (4in)** | EPA 9060 | WETA/13151 | | |
| **253802002** | **MH-12 (12in)** | EPA 9060 | WETA/13151 | | |
| **253802003** | **MH-3** | EPA 9060 | WETA/13151 | | |
| **253802004** | **SEP-001** | EPA 9060 | WETA/13151 | | |
| **253802005** | **CB-42** | EPA 9060 | WETA/13151 | | |



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

# Sample Condition Upon Receipt

Pace Analytical

Client Name: Stantec

Project # 253802

Optional:
Proj. Due Date:
Proj. Name:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other PCS

Tracking #: 1296194

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used Horiba 132013 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.8, 1.1, 0.7, 1.7, 1.6 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 5/27/10 AR

Temp should be above freezing to 6°C

Comments:

| | | |
|---|---|---|
| Chain of Custody Present: | ☑Yes ☐No ☐N/A | 1. |
| Chain of Custody Filled Out: | ☑Yes ☐No ☐N/A | 2. |
| Chain of Custody Relinquished: | ☑Yes ☐No ☐N/A | 3. |
| Sampler Name & Signature on COC: | ☑Yes ☐No ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☑Yes ☐No ☐N/A | 5. |
| Short Hold Time Analysis (<72hr): | ☐Yes ☑No ☐N/A | 6. |
| Rush Turn Around Time Requested: | ☐Yes ☑No ☐N/A | 7. |
| Sufficient Volume: | ☑Yes ☐No ☐N/A | 8. |
| Correct Containers Used: | ☑Yes ☐No ☐N/A | 9. |
| -Pace Containers Used: | ☑Yes ☐No ☐N/A | |
| Containers Intact: | ☐Yes ☑No ☐N/A | 10. MH-3 1 of 6 vials received broken |
| Filtered volume received for Dissolved tests | ☐Yes ☑No ☐N/A | 11. unpreserved sample to be filtered and preserved |
| Sample Labels match COC: | ☑Yes ☐No ☐N/A | 12. by lab. |
| -Includes date/time/ID/Analysis Matrix: Water | | |
| All containers needing preservation have been checked. | ☑Yes ☐No ☐N/A | 13. Sep-001 and CB-42 for metals analysis received with pH >2. pH adjusted to <2 with HNO3 |
| All containers needing preservation are found to be in compliance with EPA recommendation. | ☐Yes ☑No ☐N/A | Initial when completed AR / Lot # of added preservative 1108040 |
| exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water) | ☑Yes ☐No | |
| Samples checked for dechlorination: 5/27/10 AR | ☑Yes ☐No ☑N/A | 14. |
| Headspace in VOA Vials ( >6mm): | ☑Yes ☐No ☐N/A | 15. 2 of 6 trip blanks received with headspace |
| Trip Blank Present: | ☑Yes ☐No ☐N/A | 16. |
| Trip Blank Custody Seals Present | ☐Yes ☐No ☑N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

Field Data Required? Y / N

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Jenny Gross Date: 5/27/10

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

Pace Analytical®
www.pacelabs.com

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

1338233

**Section A** Required Client Information:

Company: Stantec
Address: 9400 Barnes Rd, Portland, OR
Email To: Mark Trewartha
Phone: 503 691 2030 Fax:
Requested Due Date/TAT: STD

**Section B** Required Project Information:

Report To: Mark Trewartha
Copy To: Chris Carlton-Franco
Purchase Order No.:
Project Name: 922 Stormwater Sampling
Project Number:

**Section C** Invoice Information:

Attention:
Company Name: Conoco Phillips
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

**Section D** Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test (Y/N): NWTPHGX | NWTPHDX w/sgel | 9060M | 8260B VOCs | 8270 Phthalates | 8270 PAHs | 8081 | 6000/7000 total + dissolved | 8081A | TSS | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MH-12 (4in) | WT | G | 26 May 2010 | | | 1115 | | 18 | | | | | | | | | X | X | X | X | X | X | X | X | X | X | | |
| 2 | MH-12 (12in) | WT | G | 26 May 2010 | | | 1230 | | 18 | | | | | | | | | X | X | X | X | X | X | X | X | X | X | | |
| 3 | MH-3 | WT | G | 26 May 2010 | | | 1330 | | 18 | | | | | | | | | X | X | X | X | X | X | X | X | X | X | | |
| 4 | Sep-001 | WT | G | 26 May 2010 | | | 1420 | | 18 | | | | | | | | | X | X | X | X | X | X | X | X | X | X | | |
| 5 | CB-42 | WT | G | 26 May 2010 | | | 1445 | | 18 | | | | | | | | | X | X | X | X | X | X | X | X | X | X | | |
| 6 | TB | WT | / | 26 May 2010 | | | — | | 6 | X | | | | | | | | X | | | X | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| * cooler temps: °C 1.8, 1.1, 0.7, 1.7, 1.6 | [signature] / Stantec | 26 May 2010 | 1555 | Amber Bailey / Pace | 5/27/10 | 0950 | * | Y | Y | N |
| | | | | | | | | | | |
| | | | | | | | | | | |

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Chris Carlton-Franco
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 26 May 2010

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month on any invoices not paid within 30 days.

# Sample Container Count

Pace Analytical™

CLIENT: Stantec 253803

COC PAGE 1 of 1
COC ID# 1338233

| Sample Line Item | VG9H | AG1H | AG1U | BG1H | BP1U | BP2U | BP3U | BP2N | BP2S | WGFU | WGKU | AG2S | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4 | 1/42 | 7 | | | 2 | | 1/42 | | | | 1 | | | |
| 2 | ↓ | ↓ | ↓ | | | ↓ | | ↓ | | | | ↓ | | | |
| 3 | | | | | | | | 1/4C | | | | | | | |
| 4 | | ↓ | ↓ | | | ↓ | | 1/3O | | | | ↓ | | | |
| 5 | | | | | | | | | | | | | | | Trip Blank |
| 6 | ↓ | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | Trip Blank? yes |
| 12 | | | | | | | | | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AG1H | 1 liter HCL amber glass | | BP2S | 500mL H2SO4 plastic | | JGFU | 4oz unpreserved amber wide |
| AG1U | 1liter unpreserved amber glass | | BP2U | 500mL unpreserved plastic | | R | terra core kit |
| AG2S | 500mL H2SO4 amber glass | | BP2Z | 500mL NaOH, Zn Ac | | U | Summa Can |
| AG2U | 500mL unpreserved amber glass | | BP3C | 250mL NaOH plastic | | VG9H | 40mL HCL clear vial |
| AG3S | 250mL H2SO4 amber glass | | BP3N | 250mL HNO3 plastic | | VG9T | 40mL Na Thio. clear vial |
| BG1H | 1 liter HCL clear glass | | BP3S | 250mL H2SO4 plastic | | VG9U | 40mL unpreserved clear vial |
| BG1U | 1 liter unpreserved glass | | BP3U | 250mL unpreserved plastic | | VG9W | 40mL glass vial preweighted (EPA 5035) |
| BP1N | 1 liter HNO3 plastic | | DG9B | 40mL Na Bisulfate amber vial | | VSG | Headspace septa vial & HCL |
| BP1S | 1 liter H2SO4 plastic | | DG9H | 40mL HCL amber voa vial | | WGFU | 4oz clear soil jar |
| BP1U | 1 liter unpreserved plastic | | DG9M | 40mL MeOH clear vial | | WGFX | 4oz wide jar w/hexane wipe |
| BP1Z | 1 liter NaOH, Zn, Ac | | DG9T | 40mL Na Thio amber vial | | ZPLC | Ziploc Bag |
| BP2N | 500mL HNO3 plastic | | DG9U | 40mL unpreserved amber vial | | | |
| BP2O | 500mL NaOH plastic | | I | Wipe/Swab | | | |