

July 01, 2011



Matt Fraychineaud
Mactec
5628 E. Slauson Avenue,
Los Angeles, CA 90040-2922
TEL: (323) 889-5300
FAX:

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
Workorder No.: 118620

RE: METRO WESTSIDE EXTENSION, 4953-10-1

Attention: Matt Fraychineaud

Enclosed are the results for sample(s) received on June 23, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Mactec
Project: METRO WESTSIDE EXTENSION, 4953-10-1
Lab Order: 118620

CASE NARRATIVE

All volatile analyses were performed using 5035 preservation requirements. Any high level dilutions were performed on a preserved methanol sample unless otherwise noted.

Analytical Comments for EPA 8021B

Samples 118658-009AMS and 118658-009AMSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Sample 118658-009AMSD, RPD for Matrix Spike Duplicate (MSD) is outside criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 01-Jul-11

| | |
|---|---|
| CLIENT: Mactec | Client Sample ID: E-103-40 |
| Lab Order: 118620 | Collection Date: 6/22/2011 11:00:00 AM |
| Project: METRO WESTSIDE EXTENSION, 4953-10 | Matrix: SOIL |
| Lab ID: 118620-001A | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | |
|--------------------|--------------------|---------------------|--------------------|
| RunID: MS4_110627A | QC Batch: K11VS180 | PrepDate: 6/23/2011 | Analyst: BD |
|--------------------|--------------------|---------------------|--------------------|

| Compound | Result | PQL | Qual | Units | DF | Date Analyzed |
|-----------------------------|--------|-----|------|-------|----|--------------------|
| 1,1,1,2-Tetrachloroethane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,1,1-Trichloroethane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,1,2,2-Tetrachloroethane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,1,2-Trichloroethane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,1-Dichloroethane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,1-Dichloroethene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,1-Dichloropropene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,2,3-Trichlorobenzene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,2,3-Trichloropropane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,2,4-Trichlorobenzene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,2,4-Trimethylbenzene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,2-Dibromo-3-chloropropane | ND | 7.3 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,2-Dibromoethane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,2-Dichlorobenzene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,2-Dichloroethane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,2-Dichloropropane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,3,5-Trimethylbenzene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,3-Dichlorobenzene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,3-Dichloropropane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 1,4-Dichlorobenzene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 2,2-Dichloropropane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 2-Chlorotoluene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 4-Chlorotoluene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| 4-Isopropyltoluene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Benzene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Bromobenzene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Bromodichloromethane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Bromoform | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Bromomethane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Carbon tetrachloride | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Chlorobenzene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Chloroethane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Chloroform | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Chloromethane | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |
| cis-1,2-Dichloroethene | ND | 3.6 | | µg/Kg | 1 | 6/27/2011 09:20 PM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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ANALYTICAL RESULTS

Print Date: 01-Jul-11

| | |
|---|---|
| CLIENT: Mactec | Client Sample ID: E-103-40 |
| Lab Order: 118620 | Collection Date: 6/22/2011 11:00:00 AM |
| Project: METRO WESTSIDE EXTENSION, 4953-10 | Matrix: SOIL |
| Lab ID: 118620-001A | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | | | |
|-----------------------------|--------------------|---------------------|--------------------|---|--------------------|
| RunID: MS4_110627A | QC Batch: K11VS180 | PrepDate: 6/23/2011 | Analyst: BD | | |
| cis-1,3-Dichloropropene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Di-isopropyl ether | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Dibromochloromethane | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Dibromomethane | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Dichlorodifluoromethane | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Ethyl Tert-butyl ether | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Ethylbenzene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Hexachlorobutadiene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Isopropylbenzene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| m,p-Xylene | ND | 7.3 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Methylene chloride | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| MTBE | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| n-Butylbenzene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| n-Propylbenzene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Naphthalene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| o-Xylene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| sec-Butylbenzene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Styrene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Tert-amyl methyl ether | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Tert-Butanol | ND | 73 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| tert-Butylbenzene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Tetrachloroethene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Toluene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| trans-1,2-Dichloroethene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Trichloroethene | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Trichlorofluoromethane | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Vinyl chloride | ND | 3.6 | µg/Kg | 1 | 6/27/2011 09:20 PM |
| Surr: 1,2-Dichloroethane-d4 | 104 | 65-141 | %REC | 1 | 6/27/2011 09:20 PM |
| Surr: 4-Bromofluorobenzene | 92.2 | 57-134 | %REC | 1 | 6/27/2011 09:20 PM |
| Surr: Dibromofluoromethane | 97.4 | 70-128 | %REC | 1 | 6/27/2011 09:20 PM |
| Surr: Toluene-d8 | 97.2 | 72-123 | %REC | 1 | 6/27/2011 09:20 PM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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ANALYTICAL RESULTS
 Print Date: 01-Jul-11

| | |
|---|---|
| CLIENT: Mactec | Client Sample ID: E-103-40 |
| Lab Order: 118620 | Collection Date: 6/22/2011 11:00:00 AM |
| Project: METRO WESTSIDE EXTENSION, 4953-10 | Matrix: SOIL |
| Lab ID: 118620-001D | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

| | | | | | |
|--------------------------------|--------------------|---------------------|-------------|---|--------------------|
| RunID: GC2_110628A | QC Batch: E11VS239 | PrepDate: 6/22/2011 | Analyst: TP | | |
| GRO | ND | 0.74 | mg/Kg | 1 | 6/28/2011 01:31 PM |
| Surr: Bromofluorobenzene (FID) | 122 | 51-161 | %REC | 1 | 6/28/2011 01:31 PM |

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

| | | | | | |
|--------------------------------|--------------------|---------------------|-------------|---|--------------------|
| RunID: GC2_110628A | QC Batch: E11VS239 | PrepDate: 6/22/2011 | Analyst: TP | | |
| Benzene | ND | 3.7 | µg/Kg | 1 | 6/28/2011 01:31 PM |
| Ethylbenzene | ND | 3.7 | µg/Kg | 1 | 6/28/2011 01:31 PM |
| m,p-Xylene | ND | 7.4 | µg/Kg | 1 | 6/28/2011 01:31 PM |
| o-Xylene | ND | 3.7 | µg/Kg | 1 | 6/28/2011 01:31 PM |
| Toluene | ND | 3.7 | µg/Kg | 1 | 6/28/2011 01:31 PM |
| Surr: Bromofluorobenzene (PID) | 98.3 | 33-163 | %REC | 1 | 6/28/2011 01:31 PM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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ANALYTICAL RESULTS
 Print Date: 01-Jul-11

| | |
|---|---|
| CLIENT: Mactec | Client Sample ID: E-103-40 |
| Lab Order: 118620 | Collection Date: 6/22/2011 11:00:00 AM |
| Project: METRO WESTSIDE EXTENSION, 4953-10 | Matrix: SOIL |
| Lab ID: 118620-001G | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

DIESEL RANGE ORGANICS BY GC/FID

| | | LUFT | EPA 8015B(M) | | | |
|---------------------|-----------------|------|--------------|-------|---------------------|--------------------|
| RunID: GC16_110628B | QC Batch: 73941 | | | | PrepDate: 6/28/2011 | Analyst: CBR |
| DRO | | ND | 10 | mg/Kg | 1 | 6/28/2011 04:08 PM |
| Surr: p-Terphenyl | | 104 | 63-152 | %REC | 1 | 6/28/2011 04:08 PM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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ANALYTICAL RESULTS

Print Date: 01-Jul-11

| | | | |
|-------------------|-----------------------------------|--------------------------|-----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-103-50 |
| Lab Order: | 118620 | Collection Date: | 6/22/2011 11:20:00 AM |
| Project: | METRO WESTSIDE EXTENSION, 4953-10 | Matrix: | SOIL |
| Lab ID: | 118620-002A | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | | | |
|-----------------------------|--------------------|---------------------|--------------------|---|--------------------|
| RunID: MS4_110627A | QC Batch: K11VS180 | PrepDate: 6/23/2011 | Analyst: BD | | |
| 1,1,1,2-Tetrachloroethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,1,1-Trichloroethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,1,2,2-Tetrachloroethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,1,2-Trichloroethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,1-Dichloroethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,1-Dichloroethene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,1-Dichloropropene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,2,3-Trichlorobenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,2,3-Trichloropropane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,2,4-Trichlorobenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,2,4-Trimethylbenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,2-Dibromo-3-chloropropane | ND | 7.3 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,2-Dibromoethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,2-Dichlorobenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,2-Dichloroethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,2-Dichloropropane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,3,5-Trimethylbenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,3-Dichlorobenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,3-Dichloropropane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 1,4-Dichlorobenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 2,2-Dichloropropane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 2-Chlorotoluene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 4-Chlorotoluene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| 4-Isopropyltoluene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| Benzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| Bromobenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| Bromodichloromethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| Bromoform | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| Bromomethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| Carbon tetrachloride | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| Chlorobenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| Chloroethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| Chloroform | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| Chloromethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |
| cis-1,2-Dichloroethene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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ANALYTICAL RESULTS
 Print Date: 01-Jul-11

CLIENT: Mactec **Client Sample ID:** E-103-50
Lab Order: 118620 **Collection Date:** 6/22/2011 11:20:00 AM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 118620-002A

Analyses Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS4_110627A | QC Batch: | K11VS180 | PrepDate: | 6/23/2011 | Analyst: | BD |
|-----------------------------|-------------|-----------|----------|-----------|--------------------|----------|----|
| cis-1,3-Dichloropropene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Dibromochloromethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Dibromomethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Dichlorodifluoromethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Ethylbenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Hexachlorobutadiene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Isopropylbenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| m,p-Xylene | ND | 7.3 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Methylene chloride | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| MTBE | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| n-Butylbenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| n-Propylbenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Naphthalene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| o-Xylene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| sec-Butylbenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Styrene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| tert-Butylbenzene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Tetrachloroethene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Toluene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| trans-1,2-Dichloroethene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Trichloroethene | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Trichlorofluoromethane | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Vinyl chloride | ND | 3.7 | µg/Kg | 1 | 6/27/2011 09:37 PM | | |
| Surr: 1,2-Dichloroethane-d4 | 102 | 65-141 | %REC | 1 | 6/27/2011 09:37 PM | | |
| Surr: 4-Bromofluorobenzene | 90.9 | 57-134 | %REC | 1 | 6/27/2011 09:37 PM | | |
| Surr: Dibromofluoromethane | 96.2 | 70-128 | %REC | 1 | 6/27/2011 09:37 PM | | |
| Surr: Toluene-d8 | 92.1 | 72-123 | %REC | 1 | 6/27/2011 09:37 PM | | |

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



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Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 01-Jul-11

| | | | |
|-------------------|-----------------------------------|--------------------------|-----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-103-50 |
| Lab Order: | 118620 | Collection Date: | 6/22/2011 11:20:00 AM |
| Project: | METRO WESTSIDE EXTENSION, 4953-10 | Matrix: | SOIL |
| Lab ID: | 118620-002D | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

| | | | | | |
|--------------------------------|--------------------|---------------------|-------------|---|--------------------|
| RunID: GC2_110628A | QC Batch: E11VS239 | PrepDate: 6/22/2011 | Analyst: TP | | |
| GRO | ND | 0.73 | mg/Kg | 1 | 6/28/2011 01:46 PM |
| Surr: Bromofluorobenzene (FID) | 117 | 51-161 | %REC | 1 | 6/28/2011 01:46 PM |

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

| | | | | | |
|--------------------------------|--------------------|---------------------|-------------|---|--------------------|
| RunID: GC2_110628A | QC Batch: E11VS239 | PrepDate: 6/22/2011 | Analyst: TP | | |
| Benzene | 8.7 | 3.6 | µg/Kg | 1 | 6/28/2011 01:46 PM |
| Ethylbenzene | ND | 3.6 | µg/Kg | 1 | 6/28/2011 01:46 PM |
| m,p-Xylene | ND | 7.3 | µg/Kg | 1 | 6/28/2011 01:46 PM |
| o-Xylene | ND | 3.6 | µg/Kg | 1 | 6/28/2011 01:46 PM |
| Toluene | ND | 3.6 | µg/Kg | 1 | 6/28/2011 01:46 PM |
| Surr: Bromofluorobenzene (PID) | 95.2 | 33-163 | %REC | 1 | 6/28/2011 01:46 PM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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ANALYTICAL RESULTS
 Print Date: 01-Jul-11

| | |
|---|---|
| CLIENT: Mactec | Client Sample ID: E-103-50 |
| Lab Order: 118620 | Collection Date: 6/22/2011 11:20:00 AM |
| Project: METRO WESTSIDE EXTENSION, 4953-10 | Matrix: SOIL |
| Lab ID: 118620-002G | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

ICP METALS

| | EPA 3050B | | | EPA 6010B | | |
|---------------------|-----------------|-----|--|---------------------|---|--------------------|
| RunID: ICP8_110629A | QC Batch: 73935 | | | PrepDate: 6/28/2011 | | Analyst: IL |
| Antimony | ND | 2.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Arsenic | ND | 1.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Barium | 34 | 1.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Beryllium | ND | 1.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Cadmium | 1.3 | 1.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Chromium | 15 | 1.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Cobalt | 6.8 | 1.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Copper | 12 | 2.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Lead | 1.7 | 1.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Molybdenum | ND | 1.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Nickel | 17 | 1.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Selenium | ND | 1.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Silver | ND | 1.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Thallium | ND | 1.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Vanadium | 20 | 1.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |
| Zinc | 28 | 1.0 | | mg/Kg | 1 | 6/29/2011 10:29 AM |

DIESEL RANGE ORGANICS BY GC/FID

| | LUFT | | | EPA 8015B(M) | | |
|---------------------|-----------------|--------|--|---------------------|---|--------------------|
| RunID: GC16_110628B | QC Batch: 73941 | | | PrepDate: 6/28/2011 | | Analyst: CBR |
| DRO | ND | 10 | | mg/Kg | 1 | 6/28/2011 04:18 PM |
| Surr: p-Terphenyl | 107 | 63-152 | | %REC | 1 | 6/28/2011 04:18 PM |

MERCURY BY COLD VAPOR TECHNIQUE

| | | | | EPA 7471A | | |
|--------------------|-----------------|------|--|---------------------|---|--------------------|
| RunID: AA1_110629A | QC Batch: 73932 | | | PrepDate: 6/28/2011 | | Analyst: VV |
| Mercury | ND | 0.10 | | mg/Kg | 1 | 6/29/2011 11:09 AM |

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



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ANALYTICAL RESULTS

Print Date: 01-Jul-11

| | | | |
|-------------------|-----------------------------------|--------------------------|-----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-103-55 |
| Lab Order: | 118620 | Collection Date: | 6/22/2011 11:35:00 AM |
| Project: | METRO WESTSIDE EXTENSION, 4953-10 | Matrix: | SOIL |
| Lab ID: | 118620-003A | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | | | |
|-----------------------------|--------------------|---------------------|--------------------|---|--------------------|
| RunID: MS4_110627A | QC Batch: K11VS180 | PrepDate: 6/23/2011 | Analyst: BD | | |
| 1,1,1,2-Tetrachloroethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,1,1-Trichloroethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,1,2,2-Tetrachloroethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,1,2-Trichloroethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,1-Dichloroethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,1-Dichloroethene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,1-Dichloropropene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,2,3-Trichlorobenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,2,3-Trichloropropane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,2,4-Trichlorobenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,2,4-Trimethylbenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,2-Dibromo-3-chloropropane | ND | 7.0 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,2-Dibromoethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,2-Dichlorobenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,2-Dichloroethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,2-Dichloropropane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,3,5-Trimethylbenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,3-Dichlorobenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,3-Dichloropropane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 1,4-Dichlorobenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 2,2-Dichloropropane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 2-Chlorotoluene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 4-Chlorotoluene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| 4-Isopropyltoluene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Benzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Bromobenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Bromodichloromethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Bromoform | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Bromomethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Carbon tetrachloride | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Chlorobenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Chloroethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Chloroform | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Chloromethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| cis-1,2-Dichloroethene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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ANALYTICAL RESULTS

Print Date: 01-Jul-11

| | |
|---|---|
| CLIENT: Mactec | Client Sample ID: E-103-55 |
| Lab Order: 118620 | Collection Date: 6/22/2011 11:35:00 AM |
| Project: METRO WESTSIDE EXTENSION, 4953-10 | Matrix: SOIL |
| Lab ID: 118620-003A | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | | | |
|-----------------------------|--------------------|---------------------|--------------------|---|--------------------|
| RunID: MS4_110627A | QC Batch: K11VS180 | PrepDate: 6/23/2011 | Analyst: BD | | |
| cis-1,3-Dichloropropene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Dibromochloromethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Dibromomethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Dichlorodifluoromethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Ethylbenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Hexachlorobutadiene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Isopropylbenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| m,p-Xylene | ND | 7.0 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Methylene chloride | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| MTBE | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| n-Butylbenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| n-Propylbenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Naphthalene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| o-Xylene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| sec-Butylbenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Styrene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| tert-Butylbenzene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Tetrachloroethene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Toluene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| trans-1,2-Dichloroethene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Trichloroethene | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Trichlorofluoromethane | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Vinyl chloride | ND | 3.5 | µg/Kg | 1 | 6/27/2011 09:55 PM |
| Surr: 1,2-Dichloroethane-d4 | 108 | 65-141 | %REC | 1 | 6/27/2011 09:55 PM |
| Surr: 4-Bromofluorobenzene | 95.4 | 57-134 | %REC | 1 | 6/27/2011 09:55 PM |
| Surr: Dibromofluoromethane | 102 | 70-128 | %REC | 1 | 6/27/2011 09:55 PM |
| Surr: Toluene-d8 | 97.8 | 72-123 | %REC | 1 | 6/27/2011 09:55 PM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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ANALYTICAL RESULTS
 Print Date: 01-Jul-11

| | | | |
|-------------------|-----------------------------------|--------------------------|-----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-103-55 |
| Lab Order: | 118620 | Collection Date: | 6/22/2011 11:35:00 AM |
| Project: | METRO WESTSIDE EXTENSION, 4953-10 | Matrix: | SOIL |
| Lab ID: | 118620-003D | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

| | | | | | |
|--------------------------------|--------------------|---------------------|--------------------|---|--------------------|
| RunID: GC2_110628A | QC Batch: E11VS239 | PrepDate: 6/22/2011 | Analyst: TP | | |
| GRO | ND | 0.71 | mg/Kg | 1 | 6/28/2011 02:02 PM |
| Surr: Bromofluorobenzene (FID) | 121 | 51-161 | %REC | 1 | 6/28/2011 02:02 PM |

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

| | | | | | |
|--------------------------------|--------------------|---------------------|--------------------|---|--------------------|
| RunID: GC2_110628A | QC Batch: E11VS239 | PrepDate: 6/22/2011 | Analyst: TP | | |
| Benzene | ND | 3.6 | µg/Kg | 1 | 6/28/2011 02:02 PM |
| Ethylbenzene | ND | 3.6 | µg/Kg | 1 | 6/28/2011 02:02 PM |
| m,p-Xylene | ND | 7.1 | µg/Kg | 1 | 6/28/2011 02:02 PM |
| o-Xylene | ND | 3.6 | µg/Kg | 1 | 6/28/2011 02:02 PM |
| Toluene | ND | 3.6 | µg/Kg | 1 | 6/28/2011 02:02 PM |
| Surr: Bromofluorobenzene (PID) | 97.7 | 33-163 | %REC | 1 | 6/28/2011 02:02 PM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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ANALYTICAL RESULTS
 Print Date: 01-Jul-11

| | | | |
|-------------------|-----------------------------------|--------------------------|-----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-103-55 |
| Lab Order: | 118620 | Collection Date: | 6/22/2011 11:35:00 AM |
| Project: | METRO WESTSIDE EXTENSION, 4953-10 | Matrix: | SOIL |
| Lab ID: | 118620-003G | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|-----------------|---------------------|------|-------|---------------------|---------------------|
| DIESEL RANGE ORGANICS BY GC/FID | | | | | | |
| | LUFT | EPA 8015B(M) | | | | |
| RunID: GC16_110628B | QC Batch: 73941 | | | | PrepDate: 6/28/2011 | Analyst: CBR |
| DRO | ND | 10 | | mg/Kg | 1 | 6/28/2011 04:28 PM |
| Surr: p-Terphenyl | 114 | 63-152 | | %REC | 1 | 6/28/2011 04:28 PM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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ANALYTICAL RESULTS

Print Date: 01-Jul-11

| | |
|---|---|
| CLIENT: Mactec | Client Sample ID: E-103-50 |
| Lab Order: 118620 | Collection Date: 6/22/2011 12:35:00 PM |
| Project: METRO WESTSIDE EXTENSION, 4953-10 | Matrix: GROUNDWATER |
| Lab ID: 118620-004A | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | | | |
|-----------------------------|--------------------|-----------|--------------|---|--------------------|
| RunID: MS2_110629A | QC Batch: Q11VW122 | PrepDate: | Analyst: SLL | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,1,1-Trichloroethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,1,2-Trichloroethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,1-Dichloroethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,1-Dichloroethene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,1-Dichloropropene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,2,3-Trichloropropane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,2-Dibromoethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,2-Dichlorobenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,2-Dichloroethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,2-Dichloropropane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,3-Dichlorobenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 1,4-Dichlorobenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 2,2-Dichloropropane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 2-Chlorotoluene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 4-Chlorotoluene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| 4-Isopropyltoluene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Benzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Bromobenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Bromoform | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Bromomethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Carbon tetrachloride | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Chlorobenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Chloroethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Chloroform | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Chloromethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| cis-1,2-Dichloroethene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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ANALYTICAL RESULTS

Print Date: 01-Jul-11

| | |
|---|---|
| CLIENT: Mactec | Client Sample ID: E-103-50 |
| Lab Order: 118620 | Collection Date: 6/22/2011 12:35:00 PM |
| Project: METRO WESTSIDE EXTENSION, 4953-10 | Matrix: GROUNDWATER |
| Lab ID: 118620-004A | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | | | |
|-----------------------------|--------------------|-----------|--------------|---|--------------------|
| RunID: MS2_110629A | QC Batch: Q11VW122 | PrepDate: | Analyst: SLL | | |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Di-isopropyl ether | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Dibromochloromethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Dibromomethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Dichlorodifluoromethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Ethyl tert-butyl ether | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Ethylbenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Hexachlorobutadiene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Isopropylbenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| m,p-Xylene | ND | 1.0 | µg/L | 1 | 6/29/2011 10:26 AM |
| Methylene chloride | ND | 1.0 | µg/L | 1 | 6/29/2011 10:26 AM |
| MTBE | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| n-Butylbenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| n-Propylbenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Naphthalene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| o-Xylene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| sec-Butylbenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Styrene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Tert-amyl methyl ether | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Tert-Butanol | ND | 10 | µg/L | 1 | 6/29/2011 10:26 AM |
| tert-Butylbenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Tetrachloroethene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Toluene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| trans-1,2-Dichloroethene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Trichloroethene | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Trichlorofluoromethane | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Vinyl chloride | ND | 0.50 | µg/L | 1 | 6/29/2011 10:26 AM |
| Surr: 1,2-Dichloroethane-d4 | 90.9 | 70-130 | %REC | 1 | 6/29/2011 10:26 AM |
| Surr: 4-Bromofluorobenzene | 94.3 | 70-130 | %REC | 1 | 6/29/2011 10:26 AM |
| Surr: Dibromofluoromethane | 91.2 | 70-130 | %REC | 1 | 6/29/2011 10:26 AM |
| Surr: Toluene-d8 | 89.4 | 70-130 | %REC | 1 | 6/29/2011 10:26 AM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



Advanced Technology
Laboratories

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ANALYTICAL RESULTS
 Print Date: 01-Jul-11

| | |
|---|---|
| CLIENT: Mactec | Client Sample ID: E-103-50 |
| Lab Order: 118620 | Collection Date: 6/22/2011 12:35:00 PM |
| Project: METRO WESTSIDE EXTENSION, 4953-10 | Matrix: GROUNDWATER |
| Lab ID: 118620-004B | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|------|-------|----|---------------|
|----------|--------|-----|------|-------|----|---------------|

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

| | | | | | |
|--------------------------------|--------------------|-----------|--------------------|---|--------------------|
| RunID: GC19_110629A | QC Batch: M11VW129 | PrepDate: | Analyst: TP | | |
| GRO | ND | 0.20 | mg/L | 1 | 6/29/2011 09:18 PM |
| Surr: Bromofluorobenzene (FID) | 95.0 | 70-130 | %REC | 1 | 6/29/2011 09:18 PM |

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

| | | | | | |
|--------------------------------|--------------------|-----------|--------------------|---|--------------------|
| RunID: GC19_110629A | QC Batch: M11VW129 | PrepDate: | Analyst: TP | | |
| Benzene | ND | 0.50 | µg/L | 1 | 6/29/2011 09:18 PM |
| Ethylbenzene | ND | 0.50 | µg/L | 1 | 6/29/2011 09:18 PM |
| m,p-Xylene | ND | 1.0 | µg/L | 1 | 6/29/2011 09:18 PM |
| o-Xylene | ND | 0.50 | µg/L | 1 | 6/29/2011 09:18 PM |
| Toluene | ND | 0.50 | µg/L | 1 | 6/29/2011 09:18 PM |
| Surr: Bromofluorobenzene (PID) | 87.0 | 70-130 | %REC | 1 | 6/29/2011 09:18 PM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 01-Jul-11

| | | | |
|-------------------|-----------------------------------|--------------------------|-----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-103-50 |
| Lab Order: | 118620 | Collection Date: | 6/22/2011 12:35:00 PM |
| Project: | METRO WESTSIDE EXTENSION, 4953-10 | Matrix: | GROUNDWATER |
| Lab ID: | 118620-004C | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|------------------|--------|---------------------|-------|---------------------|--------------------|
| DIESEL RANGE ORGANICS BY GC/FID | | | | | | |
| | EPA 3510C | | EPA 8015B(M) | | | |
| RunID: GC16_110628A | QC Batch: 73912 | | | | PrepDate: 6/27/2011 | Analyst: CBR |
| DRO | ND | 0.20 | | mg/L | 1 | 6/28/2011 10:26 AM |
| Surr: p-Terphenyl | 98.5 | 36-126 | | %REC | 1 | 6/28/2011 10:26 AM |

| | | |
|--------------------|--|--|
| Qualifiers: | B Analyte detected in the associated Method Blank | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit |
| | S Spike/Surrogate outside of limits due to matrix interference | Results are wet unless otherwise specified |
| | DO Surrogate Diluted Out | |



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CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

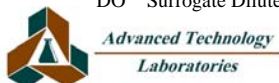
TestCode: 6010_S

| | | | | | | | | | | | |
|----------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-73935 | SampType: MBLK | TestCode: 6010_S | Units: mg/Kg | Prep Date: 6/28/2011 | RunNo: 134499 | | | | | | |
| Client ID: PBS | Batch ID: 73935 | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 6/29/2011 | SeqNo: 2199100 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Antimony | ND | 2.0 | | | | | | | | | |
| Arsenic | ND | 1.0 | | | | | | | | | |
| Barium | ND | 1.0 | | | | | | | | | |
| Beryllium | ND | 1.0 | | | | | | | | | |
| Cadmium | ND | 1.0 | | | | | | | | | |
| Chromium | ND | 1.0 | | | | | | | | | |
| Cobalt | ND | 1.0 | | | | | | | | | |
| Copper | ND | 2.0 | | | | | | | | | |
| Lead | ND | 1.0 | | | | | | | | | |
| Molybdenum | ND | 1.0 | | | | | | | | | |
| Nickel | ND | 1.0 | | | | | | | | | |
| Selenium | ND | 1.0 | | | | | | | | | |
| Silver | ND | 1.0 | | | | | | | | | |
| Thallium | ND | 1.0 | | | | | | | | | |
| Vanadium | ND | 1.0 | | | | | | | | | |
| Zinc | 0.212 | 1.0 | | | | | | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-73935 | SampType: LCS | TestCode: 6010_S | Units: mg/Kg | Prep Date: 6/28/2011 | RunNo: 134499 | | | | | | |
| Client ID: LCSS | Batch ID: 73935 | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 6/29/2011 | SeqNo: 2199101 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Antimony | 47.163 | 2.0 | 50.00 | 0 | 94.3 | 80 | 120 | | | | |
| Arsenic | 47.469 | 1.0 | 50.00 | 0 | 94.9 | 80 | 120 | | | | |
| Barium | 48.281 | 1.0 | 50.00 | 0 | 96.6 | 80 | 120 | | | | |
| Beryllium | 47.321 | 1.0 | 50.00 | 0 | 94.6 | 80 | 120 | | | | |
| Cadmium | 46.939 | 1.0 | 50.00 | 0 | 93.9 | 80 | 120 | | | | |
| Chromium | 44.770 | 1.0 | 50.00 | 0 | 89.5 | 80 | 120 | | | | |
| Cobalt | 48.562 | 1.0 | 50.00 | 0 | 97.1 | 80 | 120 | | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

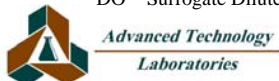
TestCode: 6010_S

| Sample ID: LCS-73935 | | SampType: LCS | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 6/28/2011 | | RunNo: 134499 | | |
|-----------------------------|--------|------------------------|-----------|------------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: LCSS | | Batch ID: 73935 | | TestNo: EPA 6010B EPA 3050B | | | | Analysis Date: 6/29/2011 | | SeqNo: 2199101 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Copper | 48.530 | 2.0 | 50.00 | 0 | 97.1 | 80 | 120 | | | | | |
| Lead | 47.797 | 1.0 | 50.00 | 0 | 95.6 | 80 | 120 | | | | | |
| Molybdenum | 49.718 | 1.0 | 50.00 | 0 | 99.4 | 80 | 120 | | | | | |
| Nickel | 47.117 | 1.0 | 50.00 | 0 | 94.2 | 80 | 120 | | | | | |
| Selenium | 44.660 | 1.0 | 50.00 | 0 | 89.3 | 80 | 120 | | | | | |
| Silver | 47.861 | 1.0 | 50.00 | 0 | 95.7 | 80 | 120 | | | | | |
| Thallium | 45.663 | 1.0 | 50.00 | 0 | 91.3 | 80 | 120 | | | | | |
| Vanadium | 48.861 | 1.0 | 50.00 | 0 | 97.7 | 80 | 120 | | | | | |
| Zinc | 47.972 | 1.0 | 50.00 | 0.2116 | 95.5 | 80 | 120 | | | | | |

| Sample ID: 118606-005A-MS | | SampType: MS | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 6/28/2011 | | RunNo: 134499 | | |
|----------------------------------|---------|------------------------|-----------|------------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: ZZZZZZ | | Batch ID: 73935 | | TestNo: EPA 6010B EPA 3050B | | | | Analysis Date: 6/29/2011 | | SeqNo: 2199103 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Antimony | 85.126 | 2.0 | 125.0 | 0.9440 | 67.3 | 32 | 105 | | | | | |
| Arsenic | 105.631 | 1.0 | 125.0 | 1.583 | 83.2 | 49 | 106 | | | | | |
| Barium | 225.784 | 1.0 | 125.0 | 127.2 | 78.9 | 31 | 133 | | | | | |
| Beryllium | 104.889 | 1.0 | 125.0 | 0 | 83.9 | 56 | 106 | | | | | |
| Cadmium | 100.148 | 1.0 | 125.0 | 0.6001 | 79.6 | 51 | 103 | | | | | |
| Chromium | 133.015 | 1.0 | 125.0 | 37.03 | 76.8 | 45 | 114 | | | | | |
| Cobalt | 110.853 | 1.0 | 125.0 | 10.46 | 80.3 | 52 | 106 | | | | | |
| Copper | 129.634 | 2.0 | 125.0 | 18.50 | 88.9 | 54 | 125 | | | | | |
| Lead | 106.275 | 1.0 | 125.0 | 6.342 | 79.9 | 34 | 126 | | | | | |
| Molybdenum | 105.169 | 1.0 | 125.0 | 0 | 84.1 | 54 | 106 | | | | | |
| Nickel | 148.852 | 1.0 | 125.0 | 73.93 | 59.9 | 45 | 111 | | | | | |
| Selenium | 99.770 | 1.0 | 125.0 | 0 | 79.8 | 47 | 104 | | | | | |
| Silver | 109.012 | 1.0 | 125.0 | 0 | 87.2 | 56 | 112 | | | | | |
| Thallium | 94.677 | 1.0 | 125.0 | 0 | 75.7 | 46 | 101 | | | | | |
| Vanadium | 135.921 | 1.0 | 125.0 | 30.15 | 84.6 | 54 | 114 | | | | | |
| Zinc | 136.681 | 1.0 | 125.0 | 35.91 | 80.6 | 28 | 125 | | | | | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

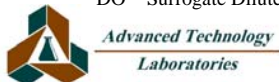
ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

| Sample ID: 118606-005A-MSD | | SampType: MSD | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 6/28/2011 | | RunNo: 134499 | |
|-----------------------------------|---------|------------------------|-----------|------------------------------------|------|---------------------------------|-----------|-----------------------------|-------|----------------------|------|
| Client ID: ZZZZZZ | | Batch ID: 73935 | | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 6/29/2011 | | SeqNo: 2199104 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Antimony | 82.156 | 2.0 | 125.0 | 0.9440 | 65.0 | 32 | 105 | 85.13 | 3.55 | 20 | |
| Arsenic | 104.421 | 1.0 | 125.0 | 1.583 | 82.3 | 49 | 106 | 105.6 | 1.15 | 20 | |
| Barium | 253.610 | 1.0 | 125.0 | 127.2 | 101 | 31 | 133 | 225.8 | 11.6 | 20 | |
| Beryllium | 105.409 | 1.0 | 125.0 | 0 | 84.3 | 56 | 106 | 104.9 | 0.495 | 20 | |
| Cadmium | 100.020 | 1.0 | 125.0 | 0.6001 | 79.5 | 51 | 103 | 100.1 | 0.127 | 20 | |
| Chromium | 137.258 | 1.0 | 125.0 | 37.03 | 80.2 | 45 | 114 | 133.0 | 3.14 | 20 | |
| Cobalt | 111.469 | 1.0 | 125.0 | 10.46 | 80.8 | 52 | 106 | 110.9 | 0.554 | 20 | |
| Copper | 131.544 | 2.0 | 125.0 | 18.50 | 90.4 | 54 | 125 | 129.6 | 1.46 | 20 | |
| Lead | 105.108 | 1.0 | 125.0 | 6.342 | 79.0 | 34 | 126 | 106.3 | 1.10 | 20 | |
| Molybdenum | 103.785 | 1.0 | 125.0 | 0 | 83.0 | 54 | 106 | 105.2 | 1.32 | 20 | |
| Nickel | 153.487 | 1.0 | 125.0 | 73.93 | 63.6 | 45 | 111 | 148.9 | 3.07 | 20 | |
| Selenium | 97.866 | 1.0 | 125.0 | 0 | 78.3 | 47 | 104 | 99.77 | 1.93 | 20 | |
| Silver | 109.474 | 1.0 | 125.0 | 0 | 87.6 | 56 | 112 | 109.0 | 0.423 | 20 | |
| Thallium | 94.136 | 1.0 | 125.0 | 0 | 75.3 | 46 | 101 | 94.68 | 0.573 | 20 | |
| Vanadium | 137.507 | 1.0 | 125.0 | 30.15 | 85.9 | 54 | 114 | 135.9 | 1.16 | 20 | |
| Zinc | 137.550 | 1.0 | 125.0 | 35.91 | 81.3 | 28 | 125 | 136.7 | 0.634 | 20 | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-73932 | SampType: MBLK | TestCode: 7471_S | Units: mg/Kg | Prep Date: 6/28/2011 | RunNo: 134510 | | | | | | |
| Client ID: PBS | Batch ID: 73932 | TestNo: EPA 7471A | | Analysis Date: 6/29/2011 | SeqNo: 2199223 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury ND 0.10

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-73932 | SampType: LCS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 6/28/2011 | RunNo: 134510 | | | | | | |
| Client ID: LCSS | Batch ID: 73932 | TestNo: EPA 7471A | | Analysis Date: 6/29/2011 | SeqNo: 2199224 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.796 0.10 0.8300 0 95.9 80 120

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 118606-005A-MS | SampType: MS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 6/28/2011 | RunNo: 134510 | | | | | | |
| Client ID: ZZZZZ | Batch ID: 73932 | TestNo: EPA 7471A | | Analysis Date: 6/29/2011 | SeqNo: 2199225 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

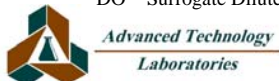
Mercury 0.891 0.10 0.8300 0.05640 101 70 130

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 118606-005A-MSD | SampType: MSD | TestCode: 7471_S | Units: mg/Kg | Prep Date: 6/28/2011 | RunNo: 134510 | | | | | | |
| Client ID: ZZZZZ | Batch ID: 73932 | TestNo: EPA 7471A | | Analysis Date: 6/29/2011 | SeqNo: 2199226 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.857 0.10 0.8300 0.05640 96.5 70 130 0.8910 3.89 20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DSL H

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-73941 | SampType: MBLK | TestCode: 8015_S_DSL | Units: mg/Kg | Prep Date: 6/28/2011 | RunNo: 134496 | | | | | | |
| Client ID: PBS | Batch ID: 73941 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 6/28/2011 | SeqNo: 2198952 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|---------|----|-------|--|-----|----|-----|--|--|--|--|
| DRO | ND | 10 | | | | | | | | | |
| Surr: p-Terphenyl | 101.280 | | 80.00 | | 127 | 63 | 152 | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-73941 | SampType: LCS | TestCode: 8015_S_DSL | Units: mg/Kg | Prep Date: 6/28/2011 | RunNo: 134496 | | | | | | |
| Client ID: LCSS | Batch ID: 73941 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 6/28/2011 | SeqNo: 2198953 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|----------|----|-------|---|-----|----|-----|--|--|--|--|
| DRO | 1077.800 | 10 | 1000 | 0 | 108 | 76 | 139 | | | | |
| Surr: p-Terphenyl | 100.940 | | 80.00 | | 126 | 63 | 152 | | | | |

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 118666-002AMS | SampType: MS | TestCode: 8015_S_DSL | Units: mg/Kg | Prep Date: 6/28/2011 | RunNo: 134496 | | | | | | |
| Client ID: ZZZZZ | Batch ID: 73941 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 6/28/2011 | SeqNo: 2198954 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

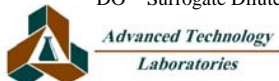
| | | | | | | | | | | | |
|-------------------|----------|----|-------|-------|-----|----|-----|--|--|--|--|
| DRO | 1344.440 | 10 | 1000 | 291.7 | 105 | 60 | 158 | | | | |
| Surr: p-Terphenyl | 83.500 | | 80.00 | | 104 | 63 | 152 | | | | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 118666-002AMSD | SampType: MSD | TestCode: 8015_S_DSL | Units: mg/Kg | Prep Date: 6/28/2011 | RunNo: 134496 | | | | | | |
| Client ID: ZZZZZ | Batch ID: 73941 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 6/28/2011 | SeqNo: 2198955 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|----------|----|-------|-------|-----|----|-----|------|------|----|--|
| DRO | 1429.670 | 10 | 1000 | 291.7 | 114 | 60 | 158 | 1344 | 6.14 | 20 | |
| Surr: p-Terphenyl | 98.830 | | 80.00 | | 124 | 63 | 152 | | 0 | 0 | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_G 5035P

| | | | | | | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: E110628LC1 | SampType: LCS | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 134491 | | | | | | |
| Client ID: LCSS | Batch ID: E11VS239 | TestNo: EPA 8015B(M) | Analysis Date: 6/28/2011 | SeqNo: 2198994 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 5.302 | 1.0 | 5.000 | 0 | 106 | 70 | 130 | | | | |
| Surr: Bromofluorobenzene (FID) | 121.052 | | 100.0 | | 121 | 51 | 161 | | | | |

| | | | | | | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: E110628MB1MS | SampType: MS | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 134491 | | | | | | |
| Client ID: ZZZZZ | Batch ID: E11VS239 | TestNo: EPA 8015B(M) | Analysis Date: 6/28/2011 | SeqNo: 2198995 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 5.224 | 1.0 | 5.000 | 0 | 104 | 41 | 146 | | | | |
| Surr: Bromofluorobenzene (FID) | 119.011 | | 100.0 | | 119 | 51 | 161 | | | | |

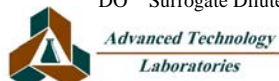
| | | | | | | | | | | | |
|---------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: E110628MB1MSD | SampType: MSD | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 134491 | | | | | | |
| Client ID: ZZZZZ | Batch ID: E11VS239 | TestNo: EPA 8015B(M) | Analysis Date: 6/28/2011 | SeqNo: 2198996 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 5.292 | 1.0 | 5.000 | 0 | 106 | 41 | 146 | 5.224 | 1.29 | 20 | |
| Surr: Bromofluorobenzene (FID) | 118.146 | | 100.0 | | 118 | 51 | 161 | | 0 | 0 | |

| | | | | | | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: E110628MB1 | SampType: MBLK | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 134491 | | | | | | |
| Client ID: PBS | Batch ID: E11VS239 | TestNo: EPA 8015B(M) | Analysis Date: 6/28/2011 | SeqNo: 2198997 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | ND | 1.0 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 101.699 | | 100.0 | | 102 | 51 | 161 | | | | |

| | | | | | | | | | | | |
|---------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 118658-009AMS | SampType: MS | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 134491 | | | | | | |
| Client ID: ZZZZZ | Batch ID: E11VS239 | TestNo: EPA 8015B(M) | Analysis Date: 6/28/2011 | SeqNo: 2199010 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 4.005 | 1.0 | 5.000 | 0 | 80.1 | 41 | 146 | | | | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_G 5035P

| | | | | | | | | | | | |
|---------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 118658-009AMS | SampType: MS | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 134491 | | | | | | |
| Client ID: ZZZZZ | Batch ID: E11VS239 | TestNo: EPA 8015B(M) | Analysis Date: 6/28/2011 | SeqNo: 2199010 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

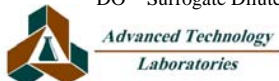
| | | | | | |
|--------------------------------|---------|-------|-----|----|-----|
| Surr: Bromofluorobenzene (FID) | 129.992 | 100.0 | 130 | 51 | 161 |
|--------------------------------|---------|-------|-----|----|-----|

| | | | | | | | | | | | |
|----------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 118658-009AMSD | SampType: MSD | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 134491 | | | | | | |
| Client ID: ZZZZZ | Batch ID: E11VS239 | TestNo: EPA 8015B(M) | Analysis Date: 6/28/2011 | SeqNo: 2199011 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|--------------------------------|---------|-------|-------|---|------|----|-----|-------|------|----|
| GRO | 4.839 | 1.0 | 5.000 | 0 | 96.8 | 41 | 146 | 4.005 | 18.9 | 20 |
| Surr: Bromofluorobenzene (FID) | 129.251 | 100.0 | | | 129 | 51 | 161 | | 0 | 0 |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DSL H

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-73912 | SampType: MBLK | TestCode: 8015_W_DSL | Units: mg/L | Prep Date: 6/27/2011 | RunNo: 134463 | | | | | | |
| Client ID: PBW | Batch ID: 73912 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 6/28/2011 | SeqNo: 2198409 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|-------|------|---------|--|------|----|-----|--|--|--|--|
| DRO | ND | 0.20 | | | | | | | | | |
| Surr: p-Terphenyl | 0.050 | | 0.08000 | | 62.4 | 36 | 126 | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-73912 | SampType: LCS | TestCode: 8015_W_DSL | Units: mg/L | Prep Date: 6/27/2011 | RunNo: 134463 | | | | | | |
| Client ID: LCSW | Batch ID: 73912 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 6/28/2011 | SeqNo: 2198410 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|-------|------|---------|---|------|----|-----|--|--|--|--|
| DRO | 0.630 | 0.20 | 1.000 | 0 | 63.0 | 52 | 128 | | | | |
| Surr: p-Terphenyl | 0.063 | | 0.08000 | | 79.2 | 36 | 126 | | | | |

| | | | | | | | | | | | |
|------------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-73912MS | SampType: MS | TestCode: 8015_W_DSL | Units: mg/L | Prep Date: 6/27/2011 | RunNo: 134463 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: 73912 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 6/28/2011 | SeqNo: 2198411 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

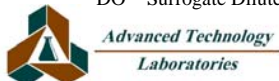
| | | | | | | | | | | | |
|-------------------|-------|------|---------|---|------|----|-----|--|--|--|--|
| DRO | 0.663 | 0.20 | 1.000 | 0 | 66.3 | 52 | 128 | | | | |
| Surr: p-Terphenyl | 0.060 | | 0.08000 | | 75.4 | 36 | 126 | | | | |

| | | | | | | | | | | | |
|-------------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-73912MSD | SampType: MSD | TestCode: 8015_W_DSL | Units: mg/L | Prep Date: 6/27/2011 | RunNo: 134463 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: 73912 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 6/28/2011 | SeqNo: 2198412 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|-------|------|---------|---|------|----|-----|--------|------|----|--|
| DRO | 0.693 | 0.20 | 1.000 | 0 | 69.3 | 52 | 128 | 0.6628 | 4.50 | 20 | |
| Surr: p-Terphenyl | 0.064 | | 0.08000 | | 79.7 | 36 | 126 | | 0 | 0 | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_G PRES

| | | | | | | | | | | | |
|------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: M110629LC1 | SampType: LCS | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 134575 | | | | | | |
| Client ID: LCSW | Batch ID: M11VW129 | TestNo: EPA 8015B(M) | | Analysis Date: 6/29/2011 | SeqNo: 2200400 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|--------------------------------|--------|------|-------|---|------|----|-----|--|--|--|--|
| GRO | 0.844 | 0.20 | 1.000 | 0 | 84.4 | 70 | 130 | | | | |
| Surr: Bromofluorobenzene (FID) | 97.396 | | 100.0 | | 97.4 | 70 | 130 | | | | |

| | | | | | | | | | | | |
|--------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: M110629MB1MS | SampType: MS | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 134575 | | | | | | |
| Client ID: ZZZZZ | Batch ID: M11VW129 | TestNo: EPA 8015B(M) | | Analysis Date: 6/29/2011 | SeqNo: 2200401 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|--------------------------------|--------|------|-------|---|------|----|-----|--|--|--|--|
| GRO | 0.911 | 0.20 | 1.000 | 0 | 91.1 | 70 | 130 | | | | |
| Surr: Bromofluorobenzene (FID) | 97.334 | | 100.0 | | 97.3 | 70 | 130 | | | | |

| | | | | | | | | | | | |
|---------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: M110629MB1MSD | SampType: MSD | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 134575 | | | | | | |
| Client ID: ZZZZZ | Batch ID: M11VW129 | TestNo: EPA 8015B(M) | | Analysis Date: 6/29/2011 | SeqNo: 2200402 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

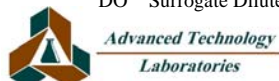
| | | | | | | | | | | | |
|--------------------------------|--------|------|-------|---|------|----|-----|--------|------|----|--|
| GRO | 0.896 | 0.20 | 1.000 | 0 | 89.6 | 70 | 130 | 0.9110 | 1.66 | 20 | |
| Surr: Bromofluorobenzene (FID) | 97.774 | | 100.0 | | 97.8 | 70 | 130 | | 0 | 0 | |

| | | | | | | | | | | | |
|--------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: M110629MB1MS | SampType: MBLK | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 134575 | | | | | | |
| Client ID: PBW | Batch ID: M11VW129 | TestNo: EPA 8015B(M) | | Analysis Date: 6/29/2011 | SeqNo: 2200403 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|--------------------------------|--------|------|-------|--|------|----|-----|--|--|--|--|
| GRO | ND | 0.20 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 94.717 | | 100.0 | | 94.7 | 70 | 130 | | | | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8021_S_B 5035P

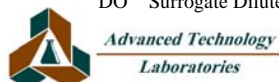
| Sample ID: E110628LC2 | SampType: LCS | TestCode: 8021_S_B 50 | Units: µg/Kg | Prep Date: | RunNo: 134491 | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: E11VS239 | TestNo: EPA 8021B | Analysis Date: 6/28/2011 | SeqNo: 2199054 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 94.337 | 5.0 | 100.0 | 0 | 94.3 | 70 | 130 | | | | |
| Ethylbenzene | 96.658 | 5.0 | 100.0 | 0 | 96.7 | 70 | 130 | | | | |
| m,p-Xylene | 195.503 | 10 | 200.0 | 0 | 97.8 | 70 | 130 | | | | |
| o-Xylene | 100.010 | 5.0 | 100.0 | 0 | 100 | 70 | 130 | | | | |
| Toluene | 96.928 | 5.0 | 100.0 | 0 | 96.9 | 70 | 130 | | | | |
| Surr: Bromofluorobenzene (PID) | 90.946 | | 100.0 | | 90.9 | 33 | 163 | | | | |

| Sample ID: E110628LC2 | SampType: LCSD | TestCode: 8021_S_B 50 | Units: µg/Kg | Prep Date: | RunNo: 134491 | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS02 | Batch ID: E11VS239 | TestNo: EPA 8021B | Analysis Date: 6/28/2011 | SeqNo: 2199055 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 91.832 | 5.0 | 100.0 | 0 | 91.8 | 70 | 130 | 94.34 | 2.69 | 20 | |
| Ethylbenzene | 94.472 | 5.0 | 100.0 | 0 | 94.5 | 70 | 130 | 96.66 | 2.29 | 20 | |
| m,p-Xylene | 190.858 | 10 | 200.0 | 0 | 95.4 | 70 | 130 | 195.5 | 2.40 | 20 | |
| o-Xylene | 97.445 | 5.0 | 100.0 | 0 | 97.4 | 70 | 130 | 100.0 | 2.60 | 20 | |
| Toluene | 94.693 | 5.0 | 100.0 | 0 | 94.7 | 70 | 130 | 96.93 | 2.33 | 20 | |
| Surr: Bromofluorobenzene (PID) | 89.120 | | 100.0 | | 89.1 | 33 | 163 | | 0 | 0 | |

| Sample ID: E110628MB1 | SampType: MBLK | TestCode: 8021_S_B 50 | Units: µg/Kg | Prep Date: | RunNo: 134491 | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBS | Batch ID: E11VS239 | TestNo: EPA 8021B | Analysis Date: 6/28/2011 | SeqNo: 2199058 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 5.0 | | | | | | | | | |
| Ethylbenzene | ND | 5.0 | | | | | | | | | |
| m,p-Xylene | ND | 10 | | | | | | | | | |
| o-Xylene | ND | 5.0 | | | | | | | | | |
| Toluene | ND | 5.0 | | | | | | | | | |
| Surr: Bromofluorobenzene (PID) | 82.520 | | 100.0 | | 82.5 | 33 | 163 | | | | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

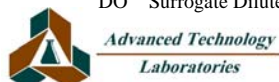
TestCode: 8021_S_B 5035P

| Sample ID: 118658-009AMS | | SampType: MS | | TestCode: 8021_S_B 50 | | Units: µg/Kg | | Prep Date: | | RunNo: 134491 | | |
|---------------------------------|---------|---------------------------|-----------|------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: ZZZZZZ | | Batch ID: E11VS239 | | TestNo: EPA 8021B | | | | Analysis Date: 6/28/2011 | | SeqNo: 2199071 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Benzene | 26.567 | 5.0 | 22.15 | 0 | 120 | 44 | 115 | | | | S | |
| Ethylbenzene | 38.951 | 5.0 | 42.30 | 0 | 92.1 | 49 | 95 | | | | | |
| m,p-Xylene | 132.828 | 10 | 180.2 | 0 | 73.7 | 55 | 98 | | | | | |
| o-Xylene | 50.760 | 5.0 | 64.80 | 0 | 78.3 | 50 | 93 | | | | | |
| Toluene | 130.255 | 5.0 | 172.6 | 0 | 75.4 | 46 | 113 | | | | | |
| Surr: Bromofluorobenzene (PID) | 105.279 | | 100.0 | | 105 | 33 | 163 | | | | | |

| Sample ID: 118658-009AMSD | | SampType: MSD | | TestCode: 8021_S_B 50 | | Units: µg/Kg | | Prep Date: | | RunNo: 134491 | | |
|----------------------------------|---------|---------------------------|-----------|------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: ZZZZZZ | | Batch ID: E11VS239 | | TestNo: EPA 8021B | | | | Analysis Date: 6/28/2011 | | SeqNo: 2199072 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Benzene | 31.500 | 5.0 | 22.15 | 0 | 142 | 44 | 115 | 26.57 | 17.0 | 20 | S | |
| Ethylbenzene | 47.924 | 5.0 | 42.30 | 0 | 113 | 49 | 95 | 38.95 | 20.7 | 20 | SR | |
| m,p-Xylene | 163.790 | 10 | 180.2 | 0 | 90.9 | 55 | 98 | 132.8 | 20.9 | 20 | R | |
| o-Xylene | 63.270 | 5.0 | 64.80 | 0 | 97.6 | 50 | 93 | 50.76 | 21.9 | 20 | SR | |
| Toluene | 155.697 | 5.0 | 172.6 | 0 | 90.2 | 46 | 113 | 130.3 | 17.8 | 20 | | |
| Surr: Bromofluorobenzene (PID) | 105.250 | | 100.0 | | 105 | 33 | 163 | | 0 | 0 | | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8021_WP_BTEX

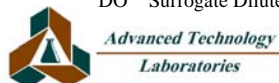
| Sample ID: M110629LC2 | | SampType: LCS | | TestCode: 8021_WP_BT | | Units: µg/L | | Prep Date: | | RunNo: 134575 | | |
|--------------------------------|---------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-----------------------|------|----------------------|------|--|
| Client ID: LCSW | | Batch ID: M11VW129 | | TestNo: EPA 8021B | | Analysis Date: 6/29/2011 | | SeqNo: 2200443 | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Benzene | 93.838 | 0.50 | 100.0 | 0 | 93.8 | 70 | 130 | | | | | |
| Toluene | 95.667 | 0.50 | 100.0 | 0 | 95.7 | 70 | 130 | | | | | |
| Ethylbenzene | 93.767 | 0.50 | 100.0 | 0 | 93.8 | 70 | 130 | | | | | |
| m,p-Xylene | 188.496 | 1.0 | 200.0 | 0 | 94.2 | 70 | 130 | | | | | |
| o-Xylene | 97.213 | 0.50 | 100.0 | 0 | 97.2 | 70 | 130 | | | | | |
| Surr: Bromofluorobenzene (PID) | 89.209 | | 100.0 | | 89.2 | 70 | 130 | | | | | |

| Sample ID: M110629LC2 | | SampType: LCS | | TestCode: 8021_WP_BT | | Units: µg/L | | Prep Date: | | RunNo: 134575 | | |
|--------------------------------|---------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-----------------------|-------|----------------------|------|--|
| Client ID: LCSW | | Batch ID: M11VW129 | | TestNo: EPA 8021B | | Analysis Date: 6/29/2011 | | SeqNo: 2200444 | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Benzene | 94.306 | 0.50 | 100.0 | 0 | 94.3 | 70 | 130 | 93.84 | 0.497 | 20 | | |
| Toluene | 95.388 | 0.50 | 100.0 | 0 | 95.4 | 70 | 130 | 95.67 | 0.292 | 20 | | |
| Ethylbenzene | 94.285 | 0.50 | 100.0 | 0 | 94.3 | 70 | 130 | 93.77 | 0.551 | 20 | | |
| m,p-Xylene | 189.514 | 1.0 | 200.0 | 0 | 94.8 | 70 | 130 | 188.5 | 0.539 | 20 | | |
| o-Xylene | 97.668 | 0.50 | 100.0 | 0 | 97.7 | 70 | 130 | 97.21 | 0.467 | 20 | | |
| Surr: Bromofluorobenzene (PID) | 89.182 | | 100.0 | | 89.2 | 70 | 130 | | 0 | 0 | | |

| Sample ID: M110629MB1MS | | SampType: MS | | TestCode: 8021_WP_BT | | Units: µg/L | | Prep Date: | | RunNo: 134575 | | |
|--------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-----------------------|------|----------------------|------|--|
| Client ID: ZZZZZ | | Batch ID: M11VW129 | | TestNo: EPA 8021B | | Analysis Date: 6/29/2011 | | SeqNo: 2200445 | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Benzene | 6.945 | 0.50 | 6.400 | 0 | 109 | 70 | 130 | | | | | |
| Toluene | 37.036 | 0.50 | 33.85 | 0 | 109 | 70 | 130 | | | | | |
| Ethylbenzene | 11.466 | 0.50 | 10.95 | 0 | 105 | 70 | 130 | | | | | |
| m,p-Xylene | 40.454 | 1.0 | 42.40 | 0 | 95.4 | 70 | 130 | | | | | |
| o-Xylene | 15.910 | 0.50 | 13.35 | 0 | 119 | 70 | 130 | | | | | |
| Surr: Bromofluorobenzene (PID) | 89.764 | | 100.0 | | 89.8 | 70 | 130 | | | | | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

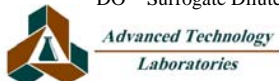
TestCode: 8021_WP_BTEX

| Sample ID: M110629MB1MSD | | SampType: MSD | | TestCode: 8021_WP_BT | | Units: µg/L | | Prep Date: | | RunNo: 134575 | |
|---------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZZ | | Batch ID: M11VW129 | | TestNo: EPA 8021B | | Analysis Date: 6/29/2011 | | | | SeqNo: 2200446 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 6.656 | 0.50 | 6.400 | 0 | 104 | 70 | 130 | 6.945 | 4.25 | 20 | |
| Toluene | 36.430 | 0.50 | 33.85 | 0 | 108 | 70 | 130 | 37.04 | 1.65 | 20 | |
| Ethylbenzene | 11.098 | 0.50 | 10.95 | 0 | 101 | 70 | 130 | 11.47 | 3.26 | 20 | |
| m,p-Xylene | 39.600 | 1.0 | 42.40 | 0 | 93.4 | 70 | 130 | 40.45 | 2.13 | 20 | |
| o-Xylene | 15.476 | 0.50 | 13.35 | 0 | 116 | 70 | 130 | 15.91 | 2.77 | 20 | |
| Surr: Bromofluorobenzene (PID) | 88.949 | | 100.0 | | 88.9 | 70 | 130 | | 0 | 0 | |

| Sample ID: M110629MB1 | | SampType: MBLK | | TestCode: 8021_WP_BT | | Units: µg/L | | Prep Date: | | RunNo: 134575 | |
|--------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: PBW | | Batch ID: M11VW129 | | TestNo: EPA 8021B | | Analysis Date: 6/29/2011 | | | | SeqNo: 2200447 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.50 | | | | | | | | | |
| Toluene | ND | 0.50 | | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | | |
| m,p-Xylene | ND | 1.0 | | | | | | | | | |
| o-Xylene | ND | 0.50 | | | | | | | | | |
| Surr: Bromofluorobenzene (PID) | 87.272 | | 100.0 | | 87.3 | 70 | 130 | | | | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

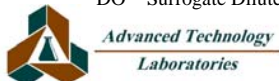
| Sample ID: K110627LCS2 | | SampType: LCS | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 134466 | |
|-------------------------------|---------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: LCSS | | Batch ID: K11VS180 | | TestNo: EPA 8260B | | Analysis Date: 6/27/2011 | | | | SeqNo: 2198426 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 48.260 | 5.0 | 50.00 | 0 | 96.5 | 70 | 130 | | | | |
| Benzene | 105.010 | 5.0 | 100.0 | 0 | 105 | 70 | 130 | | | | |
| Chlorobenzene | 54.670 | 5.0 | 50.00 | 0 | 109 | 70 | 130 | | | | |
| MTBE | 54.440 | 5.0 | 50.00 | 0 | 109 | 70 | 130 | | | | |
| Toluene | 108.490 | 5.0 | 100.0 | 0 | 108 | 70 | 130 | | | | |
| Trichloroethene | 51.610 | 5.0 | 50.00 | 0 | 103 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 46.850 | | 50.00 | | 93.7 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 46.920 | | 50.00 | | 93.8 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 45.450 | | 50.00 | | 90.9 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 48.250 | | 50.00 | | 96.5 | 72 | 123 | | | | |

| Sample ID: 118639-001AMS | | SampType: MS | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 134466 | |
|---------------------------------|---------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: K11VS180 | | TestNo: EPA 8260B | | Analysis Date: 6/27/2011 | | | | SeqNo: 2198427 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 45.550 | 5.0 | 50.00 | 0 | 91.1 | 70 | 130 | | | | |
| Benzene | 98.910 | 5.0 | 100.0 | 0 | 98.9 | 70 | 130 | | | | |
| Chlorobenzene | 52.100 | 5.0 | 50.00 | 0 | 104 | 70 | 130 | | | | |
| MTBE | 49.320 | 5.0 | 50.00 | 0 | 98.6 | 70 | 130 | | | | |
| Toluene | 101.360 | 5.0 | 100.0 | 0 | 101 | 70 | 130 | | | | |
| Trichloroethene | 48.990 | 5.0 | 50.00 | 0 | 98.0 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 43.660 | | 50.00 | | 87.3 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 45.880 | | 50.00 | | 91.8 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 44.400 | | 50.00 | | 88.8 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 46.060 | | 50.00 | | 92.1 | 72 | 123 | | | | |

| Sample ID: 118639-001AMSD | | SampType: MSD | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 134466 | |
|----------------------------------|--------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: K11VS180 | | TestNo: EPA 8260B | | Analysis Date: 6/27/2011 | | | | SeqNo: 2198428 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

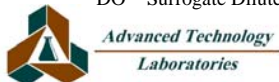
| Sample ID: 118639-001AMSD | | SampType: MSD | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 134466 | |
|----------------------------------|---------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|-------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: K11VS180 | | TestNo: EPA 8260B | | Analysis Date: 6/27/2011 | | | | SeqNo: 2198428 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 45.780 | 5.0 | 50.00 | 0 | 91.6 | 70 | 130 | 45.55 | 0.504 | 20 | |
| Benzene | 99.710 | 5.0 | 100.0 | 0 | 99.7 | 70 | 130 | 98.91 | 0.806 | 20 | |
| Chlorobenzene | 51.380 | 5.0 | 50.00 | 0 | 103 | 70 | 130 | 52.10 | 1.39 | 20 | |
| MTBE | 50.020 | 5.0 | 50.00 | 0 | 100 | 70 | 130 | 49.32 | 1.41 | 20 | |
| Toluene | 102.620 | 5.0 | 100.0 | 0 | 103 | 70 | 130 | 101.4 | 1.24 | 20 | |
| Trichloroethene | 50.480 | 5.0 | 50.00 | 0 | 101 | 70 | 130 | 48.99 | 3.00 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 42.330 | | 50.00 | | 84.7 | 65 | 141 | | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 46.670 | | 50.00 | | 93.3 | 57 | 134 | | 0 | 0 | |
| Surr: Dibromofluoromethane | 44.220 | | 50.00 | | 88.4 | 70 | 128 | | 0 | 0 | |
| Surr: Toluene-d8 | 45.590 | | 50.00 | | 91.2 | 72 | 123 | | 0 | 0 | |

| Sample ID: K110627MB4MS | | SampType: MS | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 134466 | |
|--------------------------------|--------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: K11VS180 | | TestNo: EPA 8260B | | Analysis Date: 6/27/2011 | | | | SeqNo: 2198429 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 40.370 | 5.0 | 50.00 | 0 | 80.7 | 70 | 130 | | | | |
| Benzene | 83.190 | 5.0 | 100.0 | 0 | 83.2 | 70 | 130 | | | | |
| Chlorobenzene | 40.750 | 5.0 | 50.00 | 0 | 81.5 | 70 | 130 | | | | |
| MTBE | 41.650 | 5.0 | 50.00 | 0 | 83.3 | 70 | 130 | | | | |
| Toluene | 83.950 | 5.0 | 100.0 | 0 | 84.0 | 70 | 130 | | | | |
| Trichloroethene | 41.570 | 5.0 | 50.00 | 0 | 83.1 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 43.760 | | 50.00 | | 87.5 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 45.600 | | 50.00 | | 91.2 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 44.050 | | 50.00 | | 88.1 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 43.840 | | 50.00 | | 87.7 | 72 | 123 | | | | |

| Sample ID: K110627MB4MSD | | SampType: MSD | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 134466 | |
|---------------------------------|--------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: K11VS180 | | TestNo: EPA 8260B | | Analysis Date: 6/27/2011 | | | | SeqNo: 2198430 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

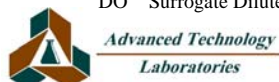
TestCode: 8260_S_5035

| Sample ID: K110627MB4MSD | | SampType: MSD | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 134466 | |
|---------------------------------|--------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|-------|-----------------------|------|
| Client ID: ZZZZZZ | | Batch ID: K11VS180 | | TestNo: EPA 8260B | | Analysis Date: 6/27/2011 | | | | SeqNo: 2198430 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 40.210 | 5.0 | 50.00 | 0 | 80.4 | 70 | 130 | 40.37 | 0.397 | 20 | |
| Benzene | 84.010 | 5.0 | 100.0 | 0 | 84.0 | 70 | 130 | 83.19 | 0.981 | 20 | |
| Chlorobenzene | 41.900 | 5.0 | 50.00 | 0 | 83.8 | 70 | 130 | 40.75 | 2.78 | 20 | |
| MTBE | 41.930 | 5.0 | 50.00 | 0 | 83.9 | 70 | 130 | 41.65 | 0.670 | 20 | |
| Toluene | 85.360 | 5.0 | 100.0 | 0 | 85.4 | 70 | 130 | 83.95 | 1.67 | 20 | |
| Trichloroethene | 40.850 | 5.0 | 50.00 | 0 | 81.7 | 70 | 130 | 41.57 | 1.75 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 45.120 | | 50.00 | | 90.2 | 65 | 141 | | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 49.640 | | 50.00 | | 99.3 | 57 | 134 | | 0 | 0 | |
| Surr: Dibromofluoromethane | 46.620 | | 50.00 | | 93.2 | 70 | 128 | | 0 | 0 | |
| Surr: Toluene-d8 | 47.110 | | 50.00 | | 94.2 | 72 | 123 | | 0 | 0 | |

| Sample ID: K110627MB4 | | SampType: MBLK | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 134466 | |
|------------------------------|--------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: PBS | | Batch ID: K11VS180 | | TestNo: EPA 8260B | | Analysis Date: 6/27/2011 | | | | SeqNo: 2198431 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 5.0 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 5.0 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 10 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 5.0 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | | | | | | | | | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| Sample ID: K110627MB4 | SampType: MBLK | TestCode: 8260_S_5035 | Units: µg/Kg | Prep Date: | RunNo: 134466 | | | | | | |
|------------------------------|---------------------------|------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBS | Batch ID: K11VS180 | TestNo: EPA 8260B | | Analysis Date: 6/27/2011 | SeqNo: 2198431 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------|----|-----|--|--|--|--|--|--|--|--|--|
| 1,2-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | | | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 5.0 | | | | | | | | | |
| Benzene | ND | 5.0 | | | | | | | | | |
| Bromobenzene | ND | 5.0 | | | | | | | | | |
| Bromodichloromethane | ND | 5.0 | | | | | | | | | |
| Bromoform | ND | 5.0 | | | | | | | | | |
| Bromomethane | ND | 5.0 | | | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | | | | | | | | | |
| Chlorobenzene | ND | 5.0 | | | | | | | | | |
| Chloroethane | ND | 5.0 | | | | | | | | | |
| Chloroform | ND | 5.0 | | | | | | | | | |
| Chloromethane | ND | 5.0 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 5.0 | | | | | | | | | |
| Di-isopropyl ether | ND | 5.0 | | | | | | | | | |
| Dibromochloromethane | ND | 5.0 | | | | | | | | | |
| Dibromomethane | ND | 5.0 | | | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | | | | | | | | | |
| Ethyl Tert-butyl ether | ND | 5.0 | | | | | | | | | |
| Ethylbenzene | ND | 5.0 | | | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | | | | | | | | | |
| Isopropylbenzene | ND | 5.0 | | | | | | | | | |
| m,p-Xylene | ND | 10 | | | | | | | | | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

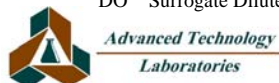
TestCode: 8260_S_5035

| | | | | | |
|------------------------------|---------------------------|------------------------------|---------------------|---------------------------------|-----------------------|
| Sample ID: K110627MB4 | SampType: MBLK | TestCode: 8260_S_5035 | Units: µg/Kg | Prep Date: | RunNo: 134466 |
| Client ID: PBS | Batch ID: K11VS180 | TestNo: EPA 8260B | | Analysis Date: 6/27/2011 | SeqNo: 2198431 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------------|--------|-----|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| Methylene chloride | ND | 5.0 | | | | | | | | | |
| MTBE | ND | 5.0 | | | | | | | | | |
| n-Butylbenzene | ND | 5.0 | | | | | | | | | |
| n-Propylbenzene | ND | 5.0 | | | | | | | | | |
| Naphthalene | ND | 5.0 | | | | | | | | | |
| o-Xylene | ND | 5.0 | | | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | | | | | | | | | |
| Styrene | ND | 5.0 | | | | | | | | | |
| Tert-amyl methyl ether | ND | 5.0 | | | | | | | | | |
| Tert-Butanol | ND | 100 | | | | | | | | | |
| tert-Butylbenzene | ND | 5.0 | | | | | | | | | |
| Tetrachloroethene | ND | 5.0 | | | | | | | | | |
| Toluene | ND | 5.0 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 5.0 | | | | | | | | | |
| Trichloroethene | ND | 5.0 | | | | | | | | | |
| Trichlorofluoromethane | ND | 5.0 | | | | | | | | | |
| Vinyl chloride | ND | 5.0 | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 45.270 | | 50.00 | | 90.5 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 44.110 | | 50.00 | | 88.2 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 44.680 | | 50.00 | | 89.4 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 44.550 | | 50.00 | | 89.1 | 72 | 123 | | | | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

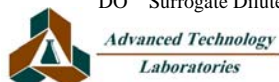
| Sample ID: Q110629LCS1 | | SampType: LCS | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 134523 | |
|-------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: LCSW | | Batch ID: Q11VW122 | | TestNo: EPA 8260B | | Analysis Date: 6/29/2011 | | | | SeqNo: 2199399 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 19.590 | 0.50 | 20.00 | 0 | 98.0 | 70 | 130 | | | | |
| Benzene | 38.510 | 0.50 | 40.00 | 0 | 96.3 | 70 | 130 | | | | |
| Chlorobenzene | 20.000 | 0.50 | 20.00 | 0 | 100 | 70 | 130 | | | | |
| MTBE | 18.570 | 0.50 | 20.00 | 0 | 92.8 | 70 | 130 | | | | |
| Toluene | 40.110 | 0.50 | 40.00 | 0 | 100 | 70 | 130 | | | | |
| Trichloroethene | 19.600 | 0.50 | 20.00 | 0 | 98.0 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 19.670 | | 25.00 | | 78.7 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 23.230 | | 25.00 | | 92.9 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 20.620 | | 25.00 | | 82.5 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 22.240 | | 25.00 | | 89.0 | 70 | 130 | | | | |

| Sample ID: Q110629MB3MS | | SampType: MS | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 134523 | |
|--------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: Q11VW122 | | TestNo: EPA 8260B | | Analysis Date: 6/29/2011 | | | | SeqNo: 2199400 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 20.530 | 0.50 | 20.00 | 0 | 103 | 70 | 130 | | | | |
| Benzene | 39.170 | 0.50 | 40.00 | 0 | 97.9 | 70 | 130 | | | | |
| Chlorobenzene | 20.330 | 0.50 | 20.00 | 0 | 102 | 70 | 130 | | | | |
| MTBE | 18.080 | 0.50 | 20.00 | 0 | 90.4 | 70 | 130 | | | | |
| Toluene | 41.070 | 0.50 | 40.00 | 0 | 103 | 70 | 130 | | | | |
| Trichloroethene | 20.570 | 0.50 | 20.00 | 0 | 103 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 19.040 | | 25.00 | | 76.2 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 22.920 | | 25.00 | | 91.7 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 19.950 | | 25.00 | | 79.8 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 22.110 | | 25.00 | | 88.4 | 70 | 130 | | | | |

| Sample ID: Q110629MB3MSD | | SampType: MSD | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 134523 | |
|---------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: Q11VW122 | | TestNo: EPA 8260B | | Analysis Date: 6/29/2011 | | | | SeqNo: 2199401 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

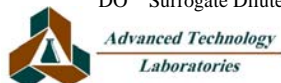
TestCode: 8260_WP_LL

| Sample ID: Q110629MB3MSD | | SampType: MSD | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 134523 | |
|---------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: Q11VW122 | | TestNo: EPA 8260B | | Analysis Date: 6/29/2011 | | | | SeqNo: 2199401 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 19.950 | 0.50 | 20.00 | 0 | 99.8 | 70 | 130 | 20.53 | 2.87 | 20 | |
| Benzene | 40.130 | 0.50 | 40.00 | 0 | 100 | 70 | 130 | 39.17 | 2.42 | 20 | |
| Chlorobenzene | 21.000 | 0.50 | 20.00 | 0 | 105 | 70 | 130 | 20.33 | 3.24 | 20 | |
| MTBE | 18.990 | 0.50 | 20.00 | 0 | 95.0 | 70 | 130 | 18.08 | 4.91 | 20 | |
| Toluene | 41.690 | 0.50 | 40.00 | 0 | 104 | 70 | 130 | 41.07 | 1.50 | 20 | |
| Trichloroethene | 20.780 | 0.50 | 20.00 | 0 | 104 | 70 | 130 | 20.57 | 1.02 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 19.670 | | 25.00 | | 78.7 | 70 | 130 | | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 24.390 | | 25.00 | | 97.6 | 70 | 130 | | 0 | 0 | |
| Surr: Dibromofluoromethane | 21.330 | | 25.00 | | 85.3 | 70 | 130 | | 0 | 0 | |
| Surr: Toluene-d8 | 23.390 | | 25.00 | | 93.6 | 70 | 130 | | 0 | 0 | |

| Sample ID: Q110629MB3 | | SampType: MBLK | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 134523 | |
|------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: PBW | | Batch ID: Q11VW122 | | TestNo: EPA 8260B | | Analysis Date: 6/29/2011 | | | | SeqNo: 2199402 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.50 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 0.50 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | | | | | | | | | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Mactec

Work Order: 118620

Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| | | | | | | | | | | | |
|------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: Q110629MB3 | SampType: MBLK | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 134523 | | | | | | |
| Client ID: PBW | Batch ID: Q11VW122 | TestNo: EPA 8260B | | Analysis Date: 6/29/2011 | SeqNo: 2199402 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------|----|------|--|--|--|--|--|--|--|--|--|
| 1,2-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.50 | | | | | | | | | |
| Benzene | ND | 0.50 | | | | | | | | | |
| Bromobenzene | ND | 0.50 | | | | | | | | | |
| Bromodichloromethane | ND | 0.50 | | | | | | | | | |
| Bromoform | ND | 0.50 | | | | | | | | | |
| Bromomethane | ND | 0.50 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | | | | | | | | | |
| Chlorobenzene | ND | 0.50 | | | | | | | | | |
| Chloroethane | ND | 0.50 | | | | | | | | | |
| Chloroform | ND | 0.50 | | | | | | | | | |
| Chloromethane | ND | 0.50 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | | | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | | | | | | | | | |
| Dibromochloromethane | ND | 0.50 | | | | | | | | | |
| Dibromomethane | ND | 0.50 | | | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | | | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.50 | | | | | | | | | |
| Isopropylbenzene | ND | 0.50 | | | | | | | | | |
| m,p-Xylene | ND | 1.0 | | | | | | | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Mactec
Work Order: 118620
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| Sample ID: Q110629MB3 | SampType: MBLK | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 134523 | | | | | | |
|------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBW | Batch ID: Q11VW122 | TestNo: EPA 8260B | | Analysis Date: 6/29/2011 | SeqNo: 2199402 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Methylene chloride | ND | 1.0 | | | | | | | | | |
| MTBE | ND | 0.50 | | | | | | | | | |
| n-Butylbenzene | ND | 0.50 | | | | | | | | | |
| n-Propylbenzene | ND | 0.50 | | | | | | | | | |
| Naphthalene | ND | 0.50 | | | | | | | | | |
| o-Xylene | ND | 0.50 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | | | | | | | | | |
| Styrene | ND | 0.50 | | | | | | | | | |
| Tert-amyl methyl ether | ND | 0.50 | | | | | | | | | |
| Tert-Butanol | ND | 10 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | | | | | | | | | |
| Tetrachloroethene | ND | 0.50 | | | | | | | | | |
| Toluene | ND | 0.50 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | | | | | | | | | |
| Trichloroethene | ND | 0.50 | | | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | | | | | | | | | |
| Vinyl chloride | ND | 0.50 | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 21.570 | | 25.00 | | 86.3 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 24.060 | | 25.00 | | 96.2 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 22.840 | | 25.00 | | 91.4 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 22.450 | | 25.00 | | 89.8 | 70 | 130 | | | | |

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CHAIN OF CUSTODY RECORD

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

Quote #: 201106374
Date: _____
Logged By: _____
NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY:
Method of Transport: ATL OnTrac
 Client FedEx GSO Other: _____
Sample Condition Upon Receipt: 1. CHILLED 2. HEADSPACE (VOA) 3. CONTAINER INTACT

Client: MACTEC
Attn: MATT FRAYCHINEAUD
Address: 5628 E. SLAVSON AVE City: LOS ANGELES State: CA Zip Code: 90040
TEL: _____ FAX: _____

Project Name: METRO WESTSIDE EXTENSION Project #: 4953-10-1561 Sampler: _____
Relinquished by: DUAN D. SANDER Date: 6-22-11 Received by: MATT FRAYCHINEAUD Date: 6/22/11 Time: 4:50P
Relinquished by: MATT FRAYCHINEAUD Date: 6/22/11 Received by: MATT FRAYCHINEAUD Date: 6/22/11 Time: 9:30A
Relinquished by: MATT FRAYCHINEAUD Date: 6/22/11 Received by: CARMEN MENDOZA Date: 6/22/11 Time: 9:30A

I hereby authorize ATL to perform the work indicated below:
Project Mgr / Submitter: MATT FRAYCHINEAUD Date: 6/22/11
Signature: [Signature]
Special Instructions/Comments: [Signature]

Send Report To: _____ Attn: _____
City: _____ State: _____ Zip: _____
Circle or Add Analysis(es) Requested: _____
Title 22 / CAM 17 (6010 / 7000) _____
8015B (DRO) _____
8015B (GRO) / 8021 (BTEX) _____
6010B (Total Metal) _____
8270C (BNA) _____
8260B (Volatiles) + MTBG _____
8081A (Pesticides) _____
8082 (PCB) _____
6010B (Total Metal) _____
8015B (GRO) / 8021 (BTEX) _____
8015B (DRO) _____
TITLE 22 / CAM 17 (6010 / 7000) _____

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
• Sample : \$2.00 / sample / mo (after 45 days)
• Records : \$1.00 / ATL workorder / mo (after 1 year)

| ITEM | LAB USE ONLY: | | Sample Description | Date | Time |
|------|---------------|----------|--------------------|-------------|--------------|
| | Batch #: | Lab No. | | | |
| | <u>118620</u> | <u>1</u> | <u>E-103-40</u> | <u>6/22</u> | <u>11:00</u> |
| | | <u>2</u> | <u>E-103-50</u> | <u>6/22</u> | <u>11:20</u> |
| | | <u>3</u> | <u>E-103-55</u> | <u>6/22</u> | <u>11:35</u> |
| | | <u>4</u> | <u>E-103-50</u> | <u>6/22</u> | <u>12:35</u> |

Q A / Q C
RTNE CT Legal
SWRCB Logcode OTHER _____
REMARKS _____

SPECIFY APPROPRIATE MATRIX

| | Container(s) | TAT | Type |
|----------------|--------------|-----|------|
| SEDIMENT | | | |
| SOIL | | | |
| DRINKING WATER | | | |
| GROUND WATER | | | |
| WASTEWATER | | | |
| STORMWATER | | | |
| AQUEOUS | | | |

Preservatives:
H=HCl N=HNO₃ S=H₂SO₄ C=4°C
Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

Figure I-1.106

Carmen Aguila

From: Rachelle Arada
Sent: Friday, June 24, 2011 3:12 PM
To: Carmen Aguila
Cc: customer.relations
Subject: FW: Additional Analyses Request
Attachments: Additional Analyses.pdf

Please log.

From: Fraychineaud, Matt [<mailto:MFRAYCHINEAUD@mactec.com>]
Sent: Friday, June 24, 2011 3:07 PM
To: Rachelle Arada
Cc: Bing Roura
Subject: Additional Analyses Request

Hi Rachelle:

Please see the attached chain of custody forms for additional analyses that we'd like to have conducted. The additions are shown in red ink and highlighted in yellow. Just call if you have questions.

Thanks.

Matt

Matt Fraychineaud
Principal Geologist
AMEC (formerly MACTEC Engineering and Consulting, Inc.)
5628 East Slauson Avenue
Los Angeles, CA 90040
(323) 889-5310
mfraychineaud@mactec.com

Carmen Aguila

From: Fraychineaud, Matt [MFRAYCHINEAUD@mactec.com]
Sent: Tuesday, June 28, 2011 8:58 AM
To: Carmen Aguila
Subject: COC for Thursday, June 23, 2011 (Metro Westside Extension Project)

Hi Carmen:

I just talked to Margo about the chain-of-custody form for the referenced project dated June 23, 2011. I asked Margo to add the trip blank onto the COC and place it on-hold. She asked me to notify you about this.

Question: What is the hold time for analyzing the trip blank....14 days? I'm thinking that we'd only analyze the trip blank if we get VOC hits in one or more of the soil samples.

Thanks.

Matt

Matt Fraychineaud
Principal Geologist
AMEC (formerly MACTEC Engineering and Consulting, Inc.)
5628 East Slauson Avenue
Los Angeles, CA 90040
(323) 889-5310
mfraychineaud@mactec.com