

## Rachelle Arada

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**From:** Fraychineaud, Matt [MFRAYCHINEAUD@mactec.com]  
**Sent:** Friday, August 05, 2011 2:21 PM  
**To:** Rachelle Arada  
**Subject:** Additional Analyses Request  
**Attachments:** E-110 and E-111 Additional Analyses.pdf

Hi Rachelle:

Please see that attached COC copies for additional analyses (red ink with yellow highlight). I'm aware that we did not preserve these samples using the 5035 field method but they have been chilled since they were collected and are within the 14-day hold time for VOC analysis.

Please let me know if you have any questions.

Thanks.

Matt

**Matt Fraychineaud**  
**Principal Geologist**  
**AMEC**  
**5628 East Slauson Avenue**  
**Los Angeles, CA 90040**  
**(323) 889-5310**  
**[mfraychineaud@mactec.com](mailto:mfraychineaud@mactec.com)**



August 05, 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.: 119195

RE: METRO WESTSIDE EXTENSION, 4953-10-1

Attention: Matt Fraychineaud

Enclosed are the results for sample(s) received on July 29, 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,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

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.



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**CLIENT:** Mactec  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1  
**Lab Order:** 119195

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**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.

Sample Receiving / General Comments

Headspace <5-6mm was noted on two voa vials.



**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 05-Aug-11

|                   |                                   |                          |                       |
|-------------------|-----------------------------------|--------------------------|-----------------------|
| <b>CLIENT:</b>    | Mactec                            | <b>Client Sample ID:</b> | E-111-15              |
| <b>Lab Order:</b> | 119195                            | <b>Collection Date:</b>  | 7/28/2011 10:05:00 AM |
| <b>Project:</b>   | METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b>           | SOIL                  |
| <b>Lab ID:</b>    | 119195-001A                       |                          |                       |

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

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

|                    |                    |                     |              |
|--------------------|--------------------|---------------------|--------------|
| RunID: MS4_110801A | QC Batch: K11VS200 | PrepDate: 7/28/2011 | Analyst: SLL |
|--------------------|--------------------|---------------------|--------------|

|                             |    |     |  |       |   |                   |
|-----------------------------|----|-----|--|-------|---|-------------------|
| 1,1,1,2-Tetrachloroethane   | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,1,1-Trichloroethane       | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,1,2,2-Tetrachloroethane   | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,1,2-Trichloroethane       | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,1-Dichloroethane          | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,1-Dichloroethene          | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,1-Dichloropropene         | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,2,3-Trichlorobenzene      | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,2,3-Trichloropropane      | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,2,4-Trichlorobenzene      | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,2,4-Trimethylbenzene      | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,2-Dibromo-3-chloropropane | ND | 7.1 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,2-Dibromoethane           | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,2-Dichlorobenzene         | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,2-Dichloroethane          | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,2-Dichloropropane         | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,3,5-Trimethylbenzene      | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,3-Dichlorobenzene         | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,3-Dichloropropane         | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 1,4-Dichlorobenzene         | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 2,2-Dichloropropane         | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 2-Chlorotoluene             | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 4-Chlorotoluene             | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| 4-Isopropyltoluene          | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| Benzene                     | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| Bromobenzene                | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| Bromodichloromethane        | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| Bromoform                   | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| Bromomethane                | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| Carbon tetrachloride        | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| Chlorobenzene               | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| Chloroethane                | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| Chloroform                  | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| Chloromethane               | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |
| cis-1,2-Dichloroethene      | ND | 3.6 |  | µg/Kg | 1 | 8/1/2011 02:03 PM |

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | 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: 05-Aug-11

|                   |                                   |                          |                       |
|-------------------|-----------------------------------|--------------------------|-----------------------|
| <b>CLIENT:</b>    | Mactec                            | <b>Client Sample ID:</b> | E-111-15              |
| <b>Lab Order:</b> | 119195                            | <b>Collection Date:</b>  | 7/28/2011 10:05:00 AM |
| <b>Project:</b>   | METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b>           | SOIL                  |
| <b>Lab ID:</b>    | 119195-001A                       |                          |                       |

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

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

|                             |                    |                     |              |   |                   |
|-----------------------------|--------------------|---------------------|--------------|---|-------------------|
| RunID: MS4_110801A          | QC Batch: K11VS200 | PrepDate: 7/28/2011 | Analyst: SLL |   |                   |
| cis-1,3-Dichloropropene     | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Di-isopropyl ether          | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Dibromochloromethane        | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Dibromomethane              | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Dichlorodifluoromethane     | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Ethyl Tert-butyl ether      | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Ethylbenzene                | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Hexachlorobutadiene         | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Isopropylbenzene            | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| m,p-Xylene                  | ND                 | 7.1                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Methylene chloride          | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| MTBE                        | 4.9                | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| n-Butylbenzene              | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| n-Propylbenzene             | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Naphthalene                 | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| o-Xylene                    | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| sec-Butylbenzene            | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Styrene                     | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Tert-amyl methyl ether      | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Tert-Butanol                | ND                 | 71                  | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| tert-Butylbenzene           | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Tetrachloroethene           | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Toluene                     | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| trans-1,2-Dichloroethene    | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Trichloroethene             | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Trichlorofluoromethane      | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Vinyl chloride              | ND                 | 3.6                 | µg/Kg        | 1 | 8/1/2011 02:03 PM |
| Surr: 1,2-Dichloroethane-d4 | 122                | 65-141              | %REC         | 1 | 8/1/2011 02:03 PM |
| Surr: 4-Bromofluorobenzene  | 92.1               | 57-134              | %REC         | 1 | 8/1/2011 02:03 PM |
| Surr: Dibromofluoromethane  | 112                | 70-128              | %REC         | 1 | 8/1/2011 02:03 PM |
| Surr: Toluene-d8            | 94.5               | 72-123              | %REC         | 1 | 8/1/2011 02:03 PM |

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | 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: 05-Aug-11

|                   |                                   |                          |                       |
|-------------------|-----------------------------------|--------------------------|-----------------------|
| <b>CLIENT:</b>    | Mactec                            | <b>Client Sample ID:</b> | E-111-15              |
| <b>Lab Order:</b> | 119195                            | <b>Collection Date:</b>  | 7/28/2011 10:05:00 AM |
| <b>Project:</b>   | METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b>           | SOIL                  |
| <b>Lab ID:</b>    | 119195-001D                       |                          |                       |

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

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

|                                |                    |                     |                    |   |                   |
|--------------------------------|--------------------|---------------------|--------------------|---|-------------------|
| RunID: GC2_110802B             | QC Batch: E11VS285 | PrepDate: 7/28/2011 | Analyst: <b>TP</b> |   |                   |
| GRO                            | ND                 | 0.81                | mg/Kg              | 1 | 8/2/2011 10:31 PM |
| Surr: Bromofluorobenzene (FID) | 80.1               | 51-161              | %REC               | 1 | 8/2/2011 10:31 PM |

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | 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: 05-Aug-11

|   |   |
|---|---|
| <b>CLIENT:</b> Mactec                             | <b>Client Sample ID:</b> E-111-15             |
| <b>Lab Order:</b> 119195                          | <b>Collection Date:</b> 7/28/2011 10:05:00 AM |
| <b>Project:</b> METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b> SOIL                           |
| <b>Lab ID:</b> 119195-001G                        |   |

| Analyses   | Result          | PQL    | Qual | Units               | DF | Date Analyzed       |
|--|-----------------|--------|------|---------------------|----|---------------------|
| <b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b> |                 |        |      |                     |    |                     |
|  | <b>LUFT</b>     |        |      | <b>EPA 8015B(M)</b> |    |                     |
| RunID: GC16_110802B                                    | QC Batch: 74666 |        |      | PrepDate: 8/1/2011  |    | Analyst: <b>CBR</b> |
| DRO  | ND              | 10     |      | mg/Kg               | 1  | 8/3/2011 01:39 AM   |
| ORO  | ND              | 10     |      | mg/Kg               | 1  | 8/3/2011 01:39 AM   |
| Surr: p-Terphenyl                                      | 80.9            | 63-152 |      | %REC                | 1  | 8/3/2011 01:39 AM   |

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | 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: 05-Aug-11

|   |   |
|---|---|
| <b>CLIENT:</b> Mactec                             | <b>Client Sample ID:</b> E-111-55             |
| <b>Lab Order:</b> 119195                          | <b>Collection Date:</b> 7/28/2011 12:40:00 PM |
| <b>Project:</b> METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b> SOIL                           |
| <b>Lab ID:</b> 119195-002A                        |   |

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

## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

|                    |                    |                     |              |
|--------------------|--------------------|---------------------|--------------|
| RunID: MS4_110801A | QC Batch: K11VS200 | PrepDate: 7/28/2011 | Analyst: SLL |
|--------------------|--------------------|---------------------|--------------|

| Compound                    | Result | PQL | Qual | Units | DF | Date Analyzed     |
|-----------------------------|--------|-----|------|-------|----|-------------------|
| 1,1,1,2-Tetrachloroethane   | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,1,1-Trichloroethane       | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,1,2,2-Tetrachloroethane   | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,1,2-Trichloroethane       | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,1-Dichloroethane          | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,1-Dichloroethene          | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,1-Dichloropropene         | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,2,3-Trichlorobenzene      | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,2,3-Trichloropropane      | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,2,4-Trichlorobenzene      | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,2,4-Trimethylbenzene      | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,2-Dibromo-3-chloropropane | ND     | 7.6 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,2-Dibromoethane           | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,2-Dichlorobenzene         | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,2-Dichloroethane          | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,2-Dichloropropane         | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,3,5-Trimethylbenzene      | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,3-Dichlorobenzene         | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,3-Dichloropropane         | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 1,4-Dichlorobenzene         | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 2,2-Dichloropropane         | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 2-Chlorotoluene             | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 4-Chlorotoluene             | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| 4-Isopropyltoluene          | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| Benzene                     | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| Bromobenzene                | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| Bromodichloromethane        | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| Bromoform                   | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| Bromomethane                | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| Carbon tetrachloride        | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| Chlorobenzene               | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| Chloroethane                | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| Chloroform                  | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| Chloromethane               | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |
| cis-1,2-Dichloroethene      | ND     | 3.8 |      | µg/Kg | 1  | 8/1/2011 02:21 PM |

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | 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: 05-Aug-11

|                   |                                   |                          |                       |
|-------------------|-----------------------------------|--------------------------|-----------------------|
| <b>CLIENT:</b>    | Mactec                            | <b>Client Sample ID:</b> | E-111-55              |
| <b>Lab Order:</b> | 119195                            | <b>Collection Date:</b>  | 7/28/2011 12:40:00 PM |
| <b>Project:</b>   | METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b>           | SOIL                  |
| <b>Lab ID:</b>    | 119195-002A                       |                          |                       |

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

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

|                             |                    |                     |              |   |                   |
|-----------------------------|--------------------|---------------------|--------------|---|-------------------|
| RunID: MS4_110801A          | QC Batch: K11VS200 | PrepDate: 7/28/2011 | Analyst: SLL |   |                   |
| cis-1,3-Dichloropropene     | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Di-isopropyl ether          | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Dibromochloromethane        | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Dibromomethane              | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Dichlorodifluoromethane     | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Ethyl Tert-butyl ether      | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Ethylbenzene                | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Hexachlorobutadiene         | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Isopropylbenzene            | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| m,p-Xylene                  | ND                 | 7.6                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Methylene chloride          | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| MTBE                        | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| n-Butylbenzene              | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| n-Propylbenzene             | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Naphthalene                 | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| o-Xylene                    | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| sec-Butylbenzene            | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Styrene                     | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Tert-amyl methyl ether      | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Tert-Butanol                | ND                 | 76                  | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| tert-Butylbenzene           | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Tetrachloroethene           | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Toluene                     | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| trans-1,2-Dichloroethene    | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Trichloroethene             | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Trichlorofluoromethane      | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Vinyl chloride              | ND                 | 3.8                 | µg/Kg        | 1 | 8/1/2011 02:21 PM |
| Surr: 1,2-Dichloroethane-d4 | 123                | 65-141              | %REC         | 1 | 8/1/2011 02:21 PM |
| Surr: 4-Bromofluorobenzene  | 91.3               | 57-134              | %REC         | 1 | 8/1/2011 02:21 PM |
| Surr: Dibromofluoromethane  | 110                | 70-128              | %REC         | 1 | 8/1/2011 02:21 PM |
| Surr: Toluene-d8            | 95.8               | 72-123              | %REC         | 1 | 8/1/2011 02:21 PM |

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | 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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|   |   |
|---|---|
| <b>CLIENT:</b> Mactec                             | <b>Client Sample ID:</b> E-111-55             |
| <b>Lab Order:</b> 119195                          | <b>Collection Date:</b> 7/28/2011 12:40:00 PM |
| <b>Project:</b> METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b> SOIL                           |
| <b>Lab ID:</b> 119195-002D                        |   |

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| <b>Analyses</b> | <b>Result</b> | <b>PQL</b> | <b>Qual</b> | <b>Units</b> | <b>DF</b> | <b>Date Analyzed</b> |
|-----------------|---------------|------------|-------------|--------------|-----------|----------------------|
|-----------------|---------------|------------|-------------|--------------|-----------|----------------------|

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**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

|                                |                    |                     |                    |   |                   |
|--------------------------------|--------------------|---------------------|--------------------|---|-------------------|
| RunID: GC2_110802B             | QC Batch: E11VS285 | PrepDate: 7/28/2011 | Analyst: <b>TP</b> |   |                   |
| GRO                            | ND                 | 0.80                | mg/Kg              | 1 | 8/2/2011 10:47 PM |
| Surr: Bromofluorobenzene (FID) | 101                | 51-161              | %REC               | 1 | 8/2/2011 10:47 PM |

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|                    |    |  |    |  |
|--------------------|----|--|----|--|
| <b>Qualifiers:</b> | 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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|   |   |
|---|---|
| <b>CLIENT:</b> Mactec                             | <b>Client Sample ID:</b> E-111-55             |
| <b>Lab Order:</b> 119195                          | <b>Collection Date:</b> 7/28/2011 12:40:00 PM |
| <b>Project:</b> METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b> SOIL                           |
| <b>Lab ID:</b> 119195-002G                        |   |

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

**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

| LUFT                |                 | EPA 8015B(M) |  |       |                    |                   |
|---------------------|-----------------|--------------|--|-------|--------------------|-------------------|
| RunID: GC16_110802B | QC Batch: 74666 |              |  |       | PrepDate: 8/1/2011 | Analyst: CBR      |
| DRO                 | ND              | 10           |  | mg/Kg | 1                  | 8/3/2011 01:49 AM |
| ORO                 | ND              | 10           |  | mg/Kg | 1                  | 8/3/2011 01:49 AM |
| Surr: p-Terphenyl   | 84.6            | 63-152       |  | %REC  | 1                  | 8/3/2011 01:49 AM |

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | 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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|                   |                                   |                          |                      |
|-------------------|-----------------------------------|--------------------------|----------------------|
| <b>CLIENT:</b>    | Mactec                            | <b>Client Sample ID:</b> | E-111-70             |
| <b>Lab Order:</b> | 119195                            | <b>Collection Date:</b>  | 7/28/2011 2:15:00 PM |
| <b>Project:</b>   | METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b>           | SOIL                 |
| <b>Lab ID:</b>    | 119195-003A                       |                          |                      |

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

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

|                             |                    |                     |              |   |                   |
|-----------------------------|--------------------|---------------------|--------------|---|-------------------|
| RunID: MS4_110801A          | QC Batch: K11VS200 | PrepDate: 7/28/2011 | Analyst: SLL |   |                   |
| 1,1,1,2-Tetrachloroethane   | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,1,1-Trichloroethane       | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,1,2,2-Tetrachloroethane   | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,1,2-Trichloroethane       | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,1-Dichloroethane          | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,1-Dichloroethene          | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,1-Dichloropropene         | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,2,3-Trichlorobenzene      | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,2,3-Trichloropropane      | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,2,4-Trichlorobenzene      | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,2,4-Trimethylbenzene      | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,2-Dibromo-3-chloropropane | ND                 | 8.3                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,2-Dibromoethane           | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,2-Dichlorobenzene         | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,2-Dichloroethane          | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,2-Dichloropropane         | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,3,5-Trimethylbenzene      | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,3-Dichlorobenzene         | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,3-Dichloropropane         | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 1,4-Dichlorobenzene         | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 2,2-Dichloropropane         | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 2-Chlorotoluene             | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 4-Chlorotoluene             | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| 4-Isopropyltoluene          | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Benzene                     | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Bromobenzene                | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Bromodichloromethane        | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Bromoform                   | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Bromomethane                | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Carbon tetrachloride        | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Chlorobenzene               | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Chloroethane                | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Chloroform                  | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Chloromethane               | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| cis-1,2-Dichloroethene      | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | 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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|                   |                                   |                          |                      |
|-------------------|-----------------------------------|--------------------------|----------------------|
| <b>CLIENT:</b>    | Mactec                            | <b>Client Sample ID:</b> | E-111-70             |
| <b>Lab Order:</b> | 119195                            | <b>Collection Date:</b>  | 7/28/2011 2:15:00 PM |
| <b>Project:</b>   | METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b>           | SOIL                 |
| <b>Lab ID:</b>    | 119195-003A                       |                          |                      |

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

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

|                             |                    |                     |              |   |                   |
|-----------------------------|--------------------|---------------------|--------------|---|-------------------|
| RunID: MS4_110801A          | QC Batch: K11VS200 | PrepDate: 7/28/2011 | Analyst: SLL |   |                   |
| cis-1,3-Dichloropropene     | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Di-isopropyl ether          | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Dibromochloromethane        | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Dibromomethane              | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Dichlorodifluoromethane     | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Ethyl Tert-butyl ether      | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Ethylbenzene                | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Hexachlorobutadiene         | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Isopropylbenzene            | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| m,p-Xylene                  | ND                 | 8.3                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Methylene chloride          | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| MTBE                        | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| n-Butylbenzene              | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| n-Propylbenzene             | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Naphthalene                 | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| o-Xylene                    | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| sec-Butylbenzene            | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Styrene                     | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Tert-amyl methyl ether      | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Tert-Butanol                | ND                 | 83                  | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| tert-Butylbenzene           | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Tetrachloroethene           | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Toluene                     | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| trans-1,2-Dichloroethene    | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Trichloroethene             | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Trichlorofluoromethane      | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Vinyl chloride              | ND                 | 4.1                 | µg/Kg        | 1 | 8/1/2011 02:39 PM |
| Surr: 1,2-Dichloroethane-d4 | 123                | 65-141              | %REC         | 1 | 8/1/2011 02:39 PM |
| Surr: 4-Bromofluorobenzene  | 91.0               | 57-134              | %REC         | 1 | 8/1/2011 02:39 PM |
| Surr: Dibromofluoromethane  | 108                | 70-128              | %REC         | 1 | 8/1/2011 02:39 PM |
| Surr: Toluene-d8            | 95.4               | 72-123              | %REC         | 1 | 8/1/2011 02:39 PM |

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | 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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|                   |                                   |                          |                      |
|-------------------|-----------------------------------|--------------------------|----------------------|
| <b>CLIENT:</b>    | Mactec                            | <b>Client Sample ID:</b> | E-111-70             |
| <b>Lab Order:</b> | 119195                            | <b>Collection Date:</b>  | 7/28/2011 2:15:00 PM |
| <b>Project:</b>   | METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b>           | SOIL                 |
| <b>Lab ID:</b>    | 119195-003D                       |                          |                      |

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

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

|                                |                    |                     |                    |   |                   |
|--------------------------------|--------------------|---------------------|--------------------|---|-------------------|
| RunID: GC2_110802B             | QC Batch: E11VS285 | PrepDate: 7/28/2011 | Analyst: <b>TP</b> |   |                   |
| GRO                            | ND                 | 0.82                | mg/Kg              | 1 | 8/2/2011 11:03 PM |
| Surr: Bromofluorobenzene (FID) | 103                | 51-161              | %REC               | 1 | 8/2/2011 11:03 PM |

|                    |    |  |    |  |
|--------------------|----|--|----|--|
| <b>Qualifiers:</b> | 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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|                   |                                   |                          |                      |
|-------------------|-----------------------------------|--------------------------|----------------------|
| <b>CLIENT:</b>    | Mactec                            | <b>Client Sample ID:</b> | E-111-70             |
| <b>Lab Order:</b> | 119195                            | <b>Collection Date:</b>  | 7/28/2011 2:15:00 PM |
| <b>Project:</b>   | METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b>           | SOIL                 |
| <b>Lab ID:</b>    | 119195-003G                       |                          |                      |

| Analyses   | Result          | PQL    | Qual | Units               | DF | Date Analyzed       |
|--|-----------------|--------|------|---------------------|----|---------------------|
| <b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b> |                 |        |      |                     |    |                     |
|  | <b>LUFT</b>     |        |      | <b>EPA 8015B(M)</b> |    |                     |
| RunID: GC16_110802B                                    | QC Batch: 74666 |        |      | PrepDate: 8/1/2011  |    | Analyst: <b>CBR</b> |
| DRO  | ND              | 10     |      | mg/Kg               | 1  | 8/3/2011 01:59 AM   |
| ORO  | ND              | 10     |      | mg/Kg               | 1  | 8/3/2011 01:59 AM   |
| Surr: p-Terphenyl                                      | 83.3            | 63-152 |      | %REC                | 1  | 8/3/2011 01:59 AM   |

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | 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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|                   |                                   |                          |                       |
|-------------------|-----------------------------------|--------------------------|-----------------------|
| <b>CLIENT:</b>    | Mactec                            | <b>Client Sample ID:</b> | E-111-GW              |
| <b>Lab Order:</b> | 119195                            | <b>Collection Date:</b>  | 7/28/2011 11:30:00 AM |
| <b>Project:</b>   | METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b>           | GROUNDWATER           |
| <b>Lab ID:</b>    | 119195-004A                       |                          |                       |

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

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

|                             |                    |           |                    |   |                   |
|-----------------------------|--------------------|-----------|--------------------|---|-------------------|
| RunID: MS2_110801A          | QC Batch: Q11VW142 | PrepDate: | Analyst: <b>BD</b> |   |                   |
| 1,1,1,2-Tetrachloroethane   | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,1,1-Trichloroethane       | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,1,2,2-Tetrachloroethane   | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,1,2-Trichloroethane       | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,1-Dichloroethane          | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,1-Dichloroethene          | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,1-Dichloropropene         | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,2,3-Trichlorobenzene      | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,2,3-Trichloropropane      | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,2,4-Trichlorobenzene      | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,2,4-Trimethylbenzene      | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,2-Dibromo-3-chloropropane | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,2-Dibromoethane           | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,2-Dichlorobenzene         | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,2-Dichloroethane          | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,2-Dichloropropane         | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,3,5-Trimethylbenzene      | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,3-Dichlorobenzene         | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,3-Dichloropropane         | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 1,4-Dichlorobenzene         | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 2,2-Dichloropropane         | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 2-Chlorotoluene             | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 4-Chlorotoluene             | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| 4-Isopropyltoluene          | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Benzene                     | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Bromobenzene                | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Bromodichloromethane        | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Bromoform                   | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Bromomethane                | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Carbon tetrachloride        | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Chlorobenzene               | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Chloroethane                | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Chloroform                  | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Chloromethane               | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| cis-1,2-Dichloroethene      | 3.4                | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | 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: 05-Aug-11

|   |   |
|---|---|
| <b>CLIENT:</b> Mactec                             | <b>Client Sample ID:</b> E-111-GW             |
| <b>Lab Order:</b> 119195                          | <b>Collection Date:</b> 7/28/2011 11:30:00 AM |
| <b>Project:</b> METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b> GROUNDWATER                    |
| <b>Lab ID:</b> 119195-004A                        |   |

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

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

|                             |                    |           |                    |   |                   |
|-----------------------------|--------------------|-----------|--------------------|---|-------------------|
| RunID: MS2_110801A          | QC Batch: Q11VW142 | PrepDate: | Analyst: <b>BD</b> |   |                   |
| cis-1,3-Dichloropropene     | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Di-isopropyl ether          | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Dibromochloromethane        | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Dibromomethane              | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Dichlorodifluoromethane     | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Ethyl tert-butyl ether      | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Ethylbenzene                | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Hexachlorobutadiene         | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Isopropylbenzene            | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| m,p-Xylene                  | ND                 | 1.0       | µg/L               | 1 | 8/1/2011 08:30 PM |
| Methylene chloride          | ND                 | 1.0       | µg/L               | 1 | 8/1/2011 08:30 PM |
| MTBE                        | 14                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| n-Butylbenzene              | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| n-Propylbenzene             | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Naphthalene                 | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| o-Xylene                    | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| sec-Butylbenzene            | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Styrene                     | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Tert-amyl methyl ether      | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Tert-Butanol                | ND                 | 10        | µg/L               | 1 | 8/1/2011 08:30 PM |
| tert-Butylbenzene           | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Tetrachloroethene           | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Toluene                     | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| trans-1,2-Dichloroethene    | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Trichloroethene             | 1.0                | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Trichlorofluoromethane      | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Vinyl chloride              | ND                 | 0.50      | µg/L               | 1 | 8/1/2011 08:30 PM |
| Surr: 1,2-Dichloroethane-d4 | 73.8               | 70-130    | %REC               | 1 | 8/1/2011 08:30 PM |
| Surr: 4-Bromofluorobenzene  | 96.4               | 70-130    | %REC               | 1 | 8/1/2011 08:30 PM |
| Surr: Dibromofluoromethane  | 86.0               | 70-130    | %REC               | 1 | 8/1/2011 08:30 PM |
| Surr: Toluene-d8            | 90.5               | 70-130    | %REC               | 1 | 8/1/2011 08:30 PM |

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | 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: 05-Aug-11

|                   |                                   |                          |                       |
|-------------------|-----------------------------------|--------------------------|-----------------------|
| <b>CLIENT:</b>    | Mactec                            | <b>Client Sample ID:</b> | E-111-GW              |
| <b>Lab Order:</b> | 119195                            | <b>Collection Date:</b>  | 7/28/2011 11:30:00 AM |
| <b>Project:</b>   | METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b>           | GROUNDWATER           |
| <b>Lab ID:</b>    | 119195-004B                       |                          |                       |

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

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

|                                |                    |           |                    |   |                   |
|--------------------------------|--------------------|-----------|--------------------|---|-------------------|
| RunID: GC19_110801B            | QC Batch: M11VW151 | PrepDate: | Analyst: <b>BB</b> |   |                   |
| GRO                            | ND                 | 0.20      | mg/L               | 1 | 8/1/2011 07:19 PM |
| Surr: Bromofluorobenzene (FID) | 88.2               | 70-130    | %REC               | 1 | 8/1/2011 07:19 PM |

|                    |    |  |    |  |
|--------------------|----|--|----|--|
| <b>Qualifiers:</b> | 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: 05-Aug-11

|   |   |
|---|---|
| <b>CLIENT:</b> Mactec                             | <b>Client Sample ID:</b> E-111-GW             |
| <b>Lab Order:</b> 119195                          | <b>Collection Date:</b> 7/28/2011 11:30:00 AM |
| <b>Project:</b> METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b> GROUNDWATER                    |
| <b>Lab ID:</b> 119195-004C                        |   |

| Analyses   | Result           | PQL    | Qual                | Units              | DF | Date Analyzed     |
|--|------------------|--------|---------------------|--------------------|----|-------------------|
| <b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b> |                  |        |                     |                    |    |                   |
|  | <b>EPA 3510C</b> |        | <b>EPA 8015B(M)</b> |                    |    |                   |
| RunID: GC16_110804A                                    | QC Batch: 74703  |        |                     | PrepDate: 8/3/2011 |    | Analyst: CBR      |
| DRO  | ND               | 0.20   |                     | mg/L               | 1  | 8/4/2011 03:38 PM |
| ORO  | ND               | 0.20   |                     | mg/L               | 1  | 8/4/2011 03:38 PM |
| Surr: p-Terphenyl                                      | 72.2             | 36-126 |                     | %REC               | 1  | 8/4/2011 03:38 PM |

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | 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: 05-Aug-11

|                   |                                   |                          |                       |
|-------------------|-----------------------------------|--------------------------|-----------------------|
| <b>CLIENT:</b>    | Mactec                            | <b>Client Sample ID:</b> | E-111-30              |
| <b>Lab Order:</b> | 119195                            | <b>Collection Date:</b>  | 7/28/2011 10:30:00 AM |
| <b>Project:</b>   | METRO WESTSIDE EXTENSION, 4953-10 | <b>Matrix:</b>           | SOIL                  |
| <b>Lab ID:</b>    | 119195-008A                       |                          |                       |

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

**ICP METALS**

**EPA 3050B**

**EPA 6010B**

|                     |                 |     |  |                    |   |                   |
|---------------------|-----------------|-----|--|--------------------|---|-------------------|
| RunID: ICP8_110803D | QC Batch: 74700 |     |  | PrepDate: 8/3/2011 |   | Analyst: IL       |
| Antimony            | ND              | 2.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Arsenic             | ND              | 1.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Barium              | 66              | 1.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Beryllium           | ND              | 1.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Cadmium             | 1.1             | 1.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Chromium            | 25              | 1.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Cobalt              | 10              | 1.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Copper              | 12              | 2.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Lead                | 1.9             | 1.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Molybdenum          | ND              | 1.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Nickel              | 23              | 1.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Selenium            | ND              | 1.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Silver              | ND              | 1.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Thallium            | ND              | 1.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Vanadium            | 24              | 1.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |
| Zinc                | 34              | 1.0 |  | mg/Kg              | 1 | 8/3/2011 02:42 PM |

**MERCURY BY COLD VAPOR TECHNIQUE**

**EPA 7471A**

|                    |                 |      |  |                    |   |                   |
|--------------------|-----------------|------|--|--------------------|---|-------------------|
| RunID: AA1_110803A | QC Batch: 74694 |      |  | PrepDate: 8/2/2011 |   | Analyst: VV       |
| Mercury            | ND              | 0.10 |  | mg/Kg              | 1 | 8/3/2011 12:09 PM |

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | 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:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

**ANALYTICAL QC SUMMARY REPORT**

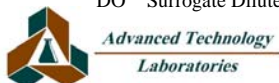
**TestCode: 6010\_S**

|                            |                        |                                    |                     |                                |                       |          |           |             |      |          |      |
|----------------------------|------------------------|------------------------------------|---------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-74700</b> | SampType: <b>MBLK</b>  | TestCode: <b>6010_S</b>            | Units: <b>mg/Kg</b> | Prep Date: <b>8/3/2011</b>     | RunNo: <b>135569</b>  |          |           |             |      |          |      |
| Client ID: <b>PBS</b>      | Batch ID: <b>74700</b> | TestNo: <b>EPA 6010B EPA 3050B</b> |                     | Analysis Date: <b>8/3/2011</b> | SeqNo: <b>2220449</b> |          |           |             |      |          |      |
| 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                     | 0.061                  | 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                   | 0.111                  | 1.0                                |                     |                                |                       |          |           |             |      |          |      |
| Vanadium                   | ND                     | 1.0                                |                     |                                |                       |          |           |             |      |          |      |
| Zinc                       | 0.814                  | 1.0                                |                     |                                |                       |          |           |             |      |          |      |

|                             |                        |                                    |                     |                                |                       |          |           |             |      |          |      |
|-----------------------------|------------------------|------------------------------------|---------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-74700</b> | SampType: <b>LCS</b>   | TestCode: <b>6010_S</b>            | Units: <b>mg/Kg</b> | Prep Date: <b>8/3/2011</b>     | RunNo: <b>135569</b>  |          |           |             |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>74700</b> | TestNo: <b>EPA 6010B EPA 3050B</b> |                     | Analysis Date: <b>8/3/2011</b> | SeqNo: <b>2220450</b> |          |           |             |      |          |      |
| Analyte                     | Result                 | PQL                                | SPK value           | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Antimony                    | 48.571                 | 2.0                                | 50.00               | 0                              | 97.1                  | 80       | 120       |             |      |          |      |
| Arsenic                     | 48.189                 | 1.0                                | 50.00               | 0                              | 96.4                  | 80       | 120       |             |      |          |      |
| Barium                      | 50.176                 | 1.0                                | 50.00               | 0.06135                        | 100                   | 80       | 120       |             |      |          |      |
| Cadmium                     | 48.140                 | 1.0                                | 50.00               | 0                              | 96.3                  | 80       | 120       |             |      |          |      |
| Chromium                    | 46.228                 | 1.0                                | 50.00               | 0                              | 92.5                  | 80       | 120       |             |      |          |      |
| Cobalt                      | 50.056                 | 1.0                                | 50.00               | 0                              | 100                   | 80       | 120       |             |      |          |      |
| Copper                      | 49.876                 | 2.0                                | 50.00               | 0                              | 99.8                  | 80       | 120       |             |      |          |      |
| Lead                        | 49.397                 | 1.0                                | 50.00               | 0                              | 98.8                  | 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:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

## ANALYTICAL QC SUMMARY REPORT

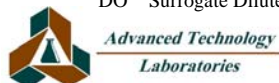
**TestCode: 6010\_S**

| Sample ID: <b>LCS-74700</b> |        | SampType: <b>LCS</b>   |           | TestCode: <b>6010_S</b>            |      | Units: <b>mg/Kg</b> |           | Prep Date: <b>8/3/2011</b>     |      | RunNo: <b>135569</b>  |      |  |
|-----------------------------|--------|------------------------|-----------|------------------------------------|------|---------------------|-----------|--------------------------------|------|-----------------------|------|--|
| Client ID: <b>LCSS</b>      |        | Batch ID: <b>74700</b> |           | TestNo: <b>EPA 6010B EPA 3050B</b> |      |                     |           | Analysis Date: <b>8/3/2011</b> |      | SeqNo: <b>2220450</b> |      |  |
| Analyte                     | Result | PQL                    | SPK value | SPK Ref Val                        | %REC | LowLimit            | HighLimit | RPD Ref Val                    | %RPD | RPDLimit              | Qual |  |
| Molybdenum                  | 51.804 | 1.0                    | 50.00     | 0                                  | 104  | 80                  | 120       |                                |      |                       |      |  |
| Nickel                      | 49.619 | 1.0                    | 50.00     | 0                                  | 99.2 | 80                  | 120       |                                |      |                       |      |  |
| Selenium                    | 45.592 | 1.0                    | 50.00     | 0                                  | 91.2 | 80                  | 120       |                                |      |                       |      |  |
| Silver                      | 49.780 | 1.0                    | 50.00     | 0                                  | 99.6 | 80                  | 120       |                                |      |                       |      |  |
| Thallium                    | 47.718 | 1.0                    | 50.00     | 0.1108                             | 95.2 | 80                  | 120       |                                |      |                       |      |  |
| Vanadium                    | 49.361 | 1.0                    | 50.00     | 0                                  | 98.7 | 80                  | 120       |                                |      |                       |      |  |
| Zinc                        | 48.970 | 1.0                    | 50.00     | 0.8136                             | 96.3 | 80                  | 120       |                                |      |                       |      |  |

| Sample ID: <b>119200-012A-MS</b> |         | SampType: <b>MS</b>    |           | TestCode: <b>6010_S</b>            |      | Units: <b>mg/Kg</b> |           | Prep Date: <b>8/3/2011</b>     |      | RunNo: <b>135569</b>  |      |  |
|----------------------------------|---------|------------------------|-----------|------------------------------------|------|---------------------|-----------|--------------------------------|------|-----------------------|------|--|
| Client ID: <b>ZZZZZZ</b>         |         | Batch ID: <b>74700</b> |           | TestNo: <b>EPA 6010B EPA 3050B</b> |      |                     |           | Analysis Date: <b>8/3/2011</b> |      | SeqNo: <b>2220469</b> |      |  |
| Analyte                          | Result  | PQL                    | SPK value | SPK Ref Val                        | %REC | LowLimit            | HighLimit | RPD Ref Val                    | %RPD | RPDLimit              | Qual |  |
| Antimony                         | 78.085  | 2.0                    | 125.0     | 0.2317                             | 62.3 | 32                  | 105       |                                |      |                       |      |  |
| Arsenic                          | 104.342 | 1.0                    | 125.0     | 15.63                              | 71.0 | 49                  | 106       |                                |      |                       |      |  |
| Barium                           | 184.499 | 1.0                    | 125.0     | 86.40                              | 78.5 | 31                  | 133       |                                |      |                       |      |  |
| Cadmium                          | 86.706  | 1.0                    | 125.0     | 0.5723                             | 68.9 | 51                  | 103       |                                |      |                       |      |  |
| Chromium                         | 93.833  | 1.0                    | 125.0     | 11.94                              | 65.5 | 45                  | 114       |                                |      |                       |      |  |
| Cobalt                           | 94.518  | 1.0                    | 125.0     | 3.613                              | 72.7 | 52                  | 106       |                                |      |                       |      |  |
| Copper                           | 103.314 | 2.0                    | 125.0     | 4.466                              | 79.1 | 54                  | 125       |                                |      |                       |      |  |
| Lead                             | 107.580 | 1.0                    | 125.0     | 22.83                              | 67.8 | 34                  | 126       |                                |      |                       |      |  |
| Molybdenum                       | 88.780  | 1.0                    | 125.0     | 0                                  | 71.0 | 54                  | 106       |                                |      |                       |      |  |
| Nickel                           | 89.365  | 1.0                    | 125.0     | 5.873                              | 66.8 | 45                  | 111       |                                |      |                       |      |  |
| Selenium                         | 82.027  | 1.0                    | 125.0     | 0                                  | 65.6 | 47                  | 104       |                                |      |                       |      |  |
| Silver                           | 92.089  | 1.0                    | 125.0     | 0                                  | 73.7 | 56                  | 112       |                                |      |                       |      |  |
| Thallium                         | 82.542  | 1.0                    | 125.0     | 0                                  | 66.0 | 46                  | 101       |                                |      |                       |      |  |
| Vanadium                         | 119.977 | 1.0                    | 125.0     | 24.17                              | 76.6 | 54                  | 114       |                                |      |                       |      |  |
| Zinc                             | 136.924 | 1.0                    | 125.0     | 47.39                              | 71.6 | 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   |  |



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**CLIENT:** Mactec  
**Work Order:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010\_S**

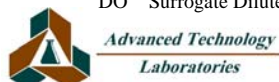
| Sample ID: <b>119200-012A-MSD</b> |         | SampType: <b>MSD</b>   |           | TestCode: <b>6010_S</b>            |      | Units: <b>mg/Kg</b>            |           | Prep Date: <b>8/3/2011</b> |       | RunNo: <b>135569</b> |      |
|-----------------------------------|---------|------------------------|-----------|------------------------------------|------|--------------------------------|-----------|----------------------------|-------|----------------------|------|
| Client ID: <b>ZZZZZZ</b>          |         | Batch ID: <b>74700</b> |           | TestNo: <b>EPA 6010B EPA 3050B</b> |      | Analysis Date: <b>8/3/2011</b> |           | SeqNo: <b>2220470</b>      |       |                      |      |
| Analyte                           | Result  | PQL                    | SPK value | SPK Ref Val                        | %REC | LowLimit                       | HighLimit | RPD Ref Val                | %RPD  | RPDLimit             | Qual |
| Antimony                          | 79.349  | 2.0                    | 125.0     | 0.2317                             | 63.3 | 32                             | 105       | 78.09                      | 1.61  | 20                   |      |
| Arsenic                           | 110.217 | 1.0                    | 125.0     | 15.63                              | 75.7 | 49                             | 106       | 104.3                      | 5.48  | 20                   |      |
| Barium                            | 183.393 | 1.0                    | 125.0     | 86.40                              | 77.6 | 31                             | 133       | 184.5                      | 0.601 | 20                   |      |
| Cadmium                           | 89.366  | 1.0                    | 125.0     | 0.5723                             | 71.0 | 51                             | 103       | 86.71                      | 3.02  | 20                   |      |
| Chromium                          | 97.994  | 1.0                    | 125.0     | 11.94                              | 68.8 | 45                             | 114       | 93.83                      | 4.34  | 20                   |      |
| Cobalt                            | 97.341  | 1.0                    | 125.0     | 3.613                              | 75.0 | 52                             | 106       | 94.52                      | 2.94  | 20                   |      |
| Copper                            | 105.728 | 2.0                    | 125.0     | 4.466                              | 81.0 | 54                             | 125       | 103.3                      | 2.31  | 20                   |      |
| Lead                              | 111.439 | 1.0                    | 125.0     | 22.83                              | 70.9 | 34                             | 126       | 107.6                      | 3.52  | 20                   |      |
| Molybdenum                        | 91.726  | 1.0                    | 125.0     | 0                                  | 73.4 | 54                             | 106       | 88.78                      | 3.26  | 20                   |      |
| Nickel                            | 93.075  | 1.0                    | 125.0     | 5.873                              | 69.8 | 45                             | 111       | 89.36                      | 4.07  | 20                   |      |
| Selenium                          | 84.712  | 1.0                    | 125.0     | 0                                  | 67.8 | 47                             | 104       | 82.03                      | 3.22  | 20                   |      |
| Silver                            | 94.558  | 1.0                    | 125.0     | 0                                  | 75.6 | 56                             | 112       | 92.09                      | 2.64  | 20                   |      |
| Thallium                          | 85.006  | 1.0                    | 125.0     | 0                                  | 68.0 | 46                             | 101       | 82.54                      | 2.94  | 20                   |      |
| Vanadium                          | 121.935 | 1.0                    | 125.0     | 24.17                              | 78.2 | 54                             | 114       | 120.0                      | 1.62  | 20                   |      |
| Zinc                              | 139.377 | 1.0                    | 125.0     | 47.39                              | 73.6 | 28                             | 125       | 136.9                      | 1.78  | 20                   |      |

| Sample ID: <b>119200-012A-MS</b> |         | SampType: <b>MS</b>    |           | TestCode: <b>6010_S</b>            |      | Units: <b>mg/Kg</b>            |           | Prep Date: <b>8/3/2011</b> |      | RunNo: <b>135569</b> |      |
|----------------------------------|---------|------------------------|-----------|------------------------------------|------|--------------------------------|-----------|----------------------------|------|----------------------|------|
| Client ID: <b>ZZZZZZ</b>         |         | Batch ID: <b>74700</b> |           | TestNo: <b>EPA 6010B EPA 3050B</b> |      | Analysis Date: <b>8/3/2011</b> |           | SeqNo: <b>2220475</b>      |      |                      |      |
| Analyte                          | Result  | PQL                    | SPK value | SPK Ref Val                        | %REC | LowLimit                       | HighLimit | RPD Ref Val                | %RPD | RPDLimit             | Qual |
| Beryllium                        | 102.454 | 5.0                    | 125.0     | 0                                  | 82.0 | 56                             | 106       |                            |      |                      |      |

| Sample ID: <b>119200-012A-MSD</b> |         | SampType: <b>MSD</b>   |           | TestCode: <b>6010_S</b>            |      | Units: <b>mg/Kg</b>            |           | Prep Date: <b>8/3/2011</b> |      | RunNo: <b>135569</b> |      |
|-----------------------------------|---------|------------------------|-----------|------------------------------------|------|--------------------------------|-----------|----------------------------|------|----------------------|------|
| Client ID: <b>ZZZZZZ</b>          |         | Batch ID: <b>74700</b> |           | TestNo: <b>EPA 6010B EPA 3050B</b> |      | Analysis Date: <b>8/3/2011</b> |           | SeqNo: <b>2220476</b>      |      |                      |      |
| Analyte                           | Result  | PQL                    | SPK value | SPK Ref Val                        | %REC | LowLimit                       | HighLimit | RPD Ref Val                | %RPD | RPDLimit             | Qual |
| Beryllium                         | 104.805 | 5.0                    | 125.0     | 0                                  | 83.8 | 56                             | 106       | 102.5                      | 2.27 | 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:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 7471\_S**

|                            |                        |                          |                     |                                |                       |          |           |             |      |          |      |
|----------------------------|------------------------|--------------------------|---------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-74694</b> | SampType: <b>MBLK</b>  | TestCode: <b>7471_S</b>  | Units: <b>mg/Kg</b> | Prep Date: <b>8/2/2011</b>     | RunNo: <b>135553</b>  |          |           |             |      |          |      |
| Client ID: <b>PBS</b>      | Batch ID: <b>74694</b> | TestNo: <b>EPA 7471A</b> |                     | Analysis Date: <b>8/3/2011</b> | SeqNo: <b>2220062</b> |          |           |             |      |          |      |
| Analyte                    | Result                 | PQL                      | SPK value           | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|         |    |      |  |  |  |  |  |  |  |  |  |
|---------|----|------|--|--|--|--|--|--|--|--|--|
| Mercury | ND | 0.10 |  |  |  |  |  |  |  |  |  |
|---------|----|------|--|--|--|--|--|--|--|--|--|

|                             |                        |                          |                     |                                |                       |          |           |             |      |          |      |
|-----------------------------|------------------------|--------------------------|---------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-74694</b> | SampType: <b>LCS</b>   | TestCode: <b>7471_S</b>  | Units: <b>mg/Kg</b> | Prep Date: <b>8/2/2011</b>     | RunNo: <b>135553</b>  |          |           |             |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>74694</b> | TestNo: <b>EPA 7471A</b> |                     | Analysis Date: <b>8/3/2011</b> | SeqNo: <b>2220063</b> |          |           |             |      |          |      |
| Analyte                     | Result                 | PQL                      | SPK value           | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|         |       |      |        |   |      |    |     |  |  |  |  |
|---------|-------|------|--------|---|------|----|-----|--|--|--|--|
| Mercury | 0.750 | 0.10 | 0.8300 | 0 | 90.3 | 80 | 120 |  |  |  |  |
|---------|-------|------|--------|---|------|----|-----|--|--|--|--|

|                                  |                        |                          |                     |                                |                       |          |           |             |      |          |      |
|----------------------------------|------------------------|--------------------------|---------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>119235-003A-MS</b> | SampType: <b>MS</b>    | TestCode: <b>7471_S</b>  | Units: <b>mg/Kg</b> | Prep Date: <b>8/2/2011</b>     | RunNo: <b>135553</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>          | Batch ID: <b>74694</b> | TestNo: <b>EPA 7471A</b> |                     | Analysis Date: <b>8/3/2011</b> | SeqNo: <b>2220064</b> |          |           |             |      |          |      |
| Analyte                          | Result                 | PQL                      | SPK value           | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

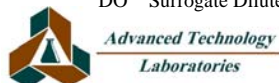
|         |       |      |        |   |      |    |     |  |  |  |  |
|---------|-------|------|--------|---|------|----|-----|--|--|--|--|
| Mercury | 0.756 | 0.10 | 0.8300 | 0 | 91.1 | 70 | 130 |  |  |  |  |
|---------|-------|------|--------|---|------|----|-----|--|--|--|--|

|                                   |                        |                          |                     |                                |                       |          |           |             |      |          |      |
|-----------------------------------|------------------------|--------------------------|---------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>119235-003A-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>7471_S</b>  | Units: <b>mg/Kg</b> | Prep Date: <b>8/2/2011</b>     | RunNo: <b>135553</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>           | Batch ID: <b>74694</b> | TestNo: <b>EPA 7471A</b> |                     | Analysis Date: <b>8/3/2011</b> | SeqNo: <b>2220065</b> |          |           |             |      |          |      |
| Analyte                           | Result                 | PQL                      | SPK value           | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|         |       |      |        |   |      |    |     |        |       |    |  |
|---------|-------|------|--------|---|------|----|-----|--------|-------|----|--|
| Mercury | 0.750 | 0.10 | 0.8300 | 0 | 90.4 | 70 | 130 | 0.7564 | 0.844 | 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:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_S\_DM H**

|                            |                        |                                 |                     |                                |                       |          |           |             |      |          |      |
|----------------------------|------------------------|---------------------------------|---------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-74666</b> | SampType: <b>MBLK</b>  | TestCode: <b>8015_S_DM H</b>    | Units: <b>mg/Kg</b> | Prep Date: <b>8/1/2011</b>     | RunNo: <b>135542</b>  |          |           |             |      |          |      |
| Client ID: <b>PBS</b>      | Batch ID: <b>74666</b> | TestNo: <b>EPA 8015B(M LUFT</b> |                     | Analysis Date: <b>8/3/2011</b> | SeqNo: <b>2219816</b> |          |           |             |      |          |      |
| Analyte                    | Result                 | PQL                             | SPK value           | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                   |        |    |       |  |      |    |     |  |  |  |  |
|-------------------|--------|----|-------|--|------|----|-----|--|--|--|--|
| DRO               | ND     | 10 |       |  |      |    |     |  |  |  |  |
| ORO               | ND     | 10 |       |  |      |    |     |  |  |  |  |
| Surr: p-Terphenyl | 71.200 |    | 80.00 |  | 89.0 | 63 | 152 |  |  |  |  |

|                             |                        |                                 |                     |                                |                       |          |           |             |      |          |      |
|-----------------------------|------------------------|---------------------------------|---------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-74666</b> | SampType: <b>LCS</b>   | TestCode: <b>8015_S_DM H</b>    | Units: <b>mg/Kg</b> | Prep Date: <b>8/1/2011</b>     | RunNo: <b>135542</b>  |          |           |             |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>74666</b> | TestNo: <b>EPA 8015B(M LUFT</b> |                     | Analysis Date: <b>8/3/2011</b> | SeqNo: <b>2219817</b> |          |           |             |      |          |      |
| Analyte                     | Result                 | PQL                             | SPK value           | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                   |         |    |       |   |      |    |     |  |  |  |  |
|-------------------|---------|----|-------|---|------|----|-----|--|--|--|--|
| DRO               | 833.520 | 10 | 1000  | 0 | 83.4 | 76 | 139 |  |  |  |  |
| Surr: p-Terphenyl | 73.700  |    | 80.00 |   | 92.1 | 63 | 152 |  |  |  |  |

|                                 |                        |                                 |                     |                                |                       |          |           |             |      |          |      |
|---------------------------------|------------------------|---------------------------------|---------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>119194-002GMS</b> | SampType: <b>MS</b>    | TestCode: <b>8015_S_DM H</b>    | Units: <b>mg/Kg</b> | Prep Date: <b>8/1/2011</b>     | RunNo: <b>135542</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>        | Batch ID: <b>74666</b> | TestNo: <b>EPA 8015B(M LUFT</b> |                     | Analysis Date: <b>8/3/2011</b> | SeqNo: <b>2219818</b> |          |           |             |      |          |      |
| Analyte                         | Result                 | PQL                             | SPK value           | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

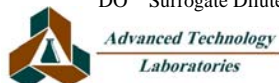
|                   |         |    |       |   |      |    |     |  |  |  |  |
|-------------------|---------|----|-------|---|------|----|-----|--|--|--|--|
| DRO               | 820.410 | 10 | 1000  | 0 | 82.0 | 60 | 158 |  |  |  |  |
| Surr: p-Terphenyl | 79.790  |    | 80.00 |   | 99.7 | 63 | 152 |  |  |  |  |

|                                  |                        |                                 |                     |                                |                       |          |           |             |      |          |      |
|----------------------------------|------------------------|---------------------------------|---------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>119194-002GMSD</b> | SampType: <b>MSD</b>   | TestCode: <b>8015_S_DM H</b>    | Units: <b>mg/Kg</b> | Prep Date: <b>8/1/2011</b>     | RunNo: <b>135542</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>74666</b> | TestNo: <b>EPA 8015B(M LUFT</b> |                     | Analysis Date: <b>8/3/2011</b> | SeqNo: <b>2219819</b> |          |           |             |      |          |      |
| Analyte                          | Result                 | PQL                             | SPK value           | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                   |         |    |       |   |      |    |     |       |      |    |  |
|-------------------|---------|----|-------|---|------|----|-----|-------|------|----|--|
| DRO               | 899.490 | 10 | 1000  | 0 | 89.9 | 60 | 158 | 820.4 | 9.20 | 20 |  |
| Surr: p-Terphenyl | 78.410  |    | 80.00 |   | 98.0 | 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:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_S\_G 5035P**

| Sample ID: <b>E110802LC3</b>   |         | SampType: <b>LCS</b>      |           | TestCode: <b>8015_S_G 50</b> |      | Units: <b>mg/Kg</b>            |           | Prep Date:            |      | RunNo: <b>135537</b> |      |  |
|--------------------------------|---------|---------------------------|-----------|------------------------------|------|--------------------------------|-----------|-----------------------|------|----------------------|------|--|
| Client ID: <b>LCSS</b>         |         | Batch ID: <b>E11VS285</b> |           | TestNo: <b>EPA 8015B(M)</b>  |      | Analysis Date: <b>8/2/2011</b> |           | SeqNo: <b>2220597</b> |      |                      |      |  |
| Analyte                        | Result  | PQL                       | SPK value | SPK Ref Val                  | %REC | LowLimit                       | HighLimit | RPD Ref Val           | %RPD | RPDLimit             | Qual |  |
| GRO                            | 4.813   | 1.0                       | 5.000     | 0                            | 96.3 | 70                             | 130       |                       |      |                      |      |  |
| Surr: Bromofluorobenzene (FID) | 129.706 |                           | 100.0     |                              | 130  | 51                             | 161       |                       |      |                      |      |  |

| Sample ID: <b>E110802MB2MS</b> |         | SampType: <b>MS</b>       |           | TestCode: <b>8015_S_G 50</b> |      | Units: <b>mg/Kg</b>            |           | Prep Date:            |      | RunNo: <b>135537</b> |      |  |
|--------------------------------|---------|---------------------------|-----------|------------------------------|------|--------------------------------|-----------|-----------------------|------|----------------------|------|--|
| Client ID: <b>ZZZZZ</b>        |         | Batch ID: <b>E11VS285</b> |           | TestNo: <b>EPA 8015B(M)</b>  |      | Analysis Date: <b>8/2/2011</b> |           | SeqNo: <b>2220598</b> |      |                      |      |  |
| Analyte                        | Result  | PQL                       | SPK value | SPK Ref Val                  | %REC | LowLimit                       | HighLimit | RPD Ref Val           | %RPD | RPDLimit             | Qual |  |
| GRO                            | 4.687   | 1.0                       | 5.000     | 0                            | 93.7 | 41                             | 146       |                       |      |                      |      |  |
| Surr: Bromofluorobenzene (FID) | 121.656 |                           | 100.0     |                              | 122  | 51                             | 161       |                       |      |                      |      |  |

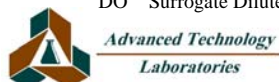
| Sample ID: <b>E110802MB2MSD</b> |         | SampType: <b>MSD</b>      |           | TestCode: <b>8015_S_G 50</b> |      | Units: <b>mg/Kg</b>            |           | Prep Date:            |        | RunNo: <b>135537</b> |      |  |
|---------------------------------|---------|---------------------------|-----------|------------------------------|------|--------------------------------|-----------|-----------------------|--------|----------------------|------|--|
| Client ID: <b>ZZZZZ</b>         |         | Batch ID: <b>E11VS285</b> |           | TestNo: <b>EPA 8015B(M)</b>  |      | Analysis Date: <b>8/2/2011</b> |           | SeqNo: <b>2220599</b> |        |                      |      |  |
| Analyte                         | Result  | PQL                       | SPK value | SPK Ref Val                  | %REC | LowLimit                       | HighLimit | RPD Ref Val           | %RPD   | RPDLimit             | Qual |  |
| GRO                             | 4.690   | 1.0                       | 5.000     | 0                            | 93.8 | 41                             | 146       | 4.687                 | 0.0640 | 20                   |      |  |
| Surr: Bromofluorobenzene (FID)  | 114.568 |                           | 100.0     |                              | 115  | 51                             | 161       |                       | 0      | 0                    |      |  |

| Sample ID: <b>E110802MB2</b>   |        | SampType: <b>MBLK</b>     |           | TestCode: <b>8015_S_G 50</b> |      | Units: <b>mg/Kg</b>            |           | Prep Date:            |      | RunNo: <b>135537</b> |      |  |
|--------------------------------|--------|---------------------------|-----------|------------------------------|------|--------------------------------|-----------|-----------------------|------|----------------------|------|--|
| Client ID: <b>PBS</b>          |        | Batch ID: <b>E11VS285</b> |           | TestNo: <b>EPA 8015B(M)</b>  |      | Analysis Date: <b>8/2/2011</b> |           | SeqNo: <b>2220600</b> |      |                      |      |  |
| Analyte                        | Result | PQL                       | SPK value | SPK Ref Val                  | %REC | LowLimit                       | HighLimit | RPD Ref Val           | %RPD | RPDLimit             | Qual |  |
| GRO                            | ND     | 1.0                       |           |                              |      |                                |           |                       |      |                      |      |  |
| Surr: Bromofluorobenzene (FID) | 79.954 |                           | 100.0     |                              | 80.0 | 51                             | 161       |                       |      |                      |      |  |

| Sample ID: <b>119199-026AMS</b> |        | SampType: <b>MS</b>       |           | TestCode: <b>8015_S_G 50</b> |      | Units: <b>mg/Kg</b>            |           | Prep Date:            |      | RunNo: <b>135537</b> |      |  |
|---------------------------------|--------|---------------------------|-----------|------------------------------|------|--------------------------------|-----------|-----------------------|------|----------------------|------|--|
| Client ID: <b>ZZZZZ</b>         |        | Batch ID: <b>E11VS285</b> |           | TestNo: <b>EPA 8015B(M)</b>  |      | Analysis Date: <b>8/2/2011</b> |           | SeqNo: <b>2220605</b> |      |                      |      |  |
| Analyte                         | Result | PQL                       | SPK value | SPK Ref Val                  | %REC | LowLimit                       | HighLimit | RPD Ref Val           | %RPD | RPDLimit             | Qual |  |
| GRO                             | 4.686  | 1.0                       | 5.000     | 0                            | 93.7 | 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:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

## ANALYTICAL QC SUMMARY REPORT

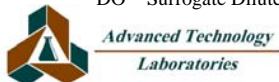
**TestCode: 8015\_S\_G 5035P**

|                                 |                           |                              |                                |                       |                      |          |           |             |      |          |      |
|---------------------------------|---------------------------|------------------------------|--------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>119199-026AMS</b> | SampType: <b>MS</b>       | TestCode: <b>8015_S_G 50</b> | Units: <b>mg/Kg</b>            | Prep Date:            | RunNo: <b>135537</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>        | Batch ID: <b>E11VS285</b> | TestNo: <b>EPA 8015B(M)</b>  | Analysis Date: <b>8/2/2011</b> | SeqNo: <b>2220605</b> |                      |          |           |             |      |          |      |
| Analyte                         | Result                    | PQL                          | SPK value                      | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: Bromofluorobenzene (FID)  | 122.372                   |                              | 100.0                          |                       | 122                  | 51       | 161       |             |      |          |      |

|                                  |                           |                              |                                |                       |                      |          |           |             |       |          |      |
|----------------------------------|---------------------------|------------------------------|--------------------------------|-----------------------|----------------------|----------|-----------|-------------|-------|----------|------|
| Sample ID: <b>119199-026AMSD</b> | SampType: <b>MSD</b>      | TestCode: <b>8015_S_G 50</b> | Units: <b>mg/Kg</b>            | Prep Date:            | RunNo: <b>135537</b> |          |           |             |       |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>E11VS285</b> | TestNo: <b>EPA 8015B(M)</b>  | Analysis Date: <b>8/2/2011</b> | SeqNo: <b>2220606</b> |                      |          |           |             |       |          |      |
| Analyte                          | Result                    | PQL                          | SPK value                      | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| GRO                              | 4.702                     | 1.0                          | 5.000                          | 0                     | 94.0                 | 41       | 146       | 4.686       | 0.341 | 20       |      |
| Surr: Bromofluorobenzene (FID)   | 119.015                   |                              | 100.0                          |                       | 119                  | 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   |  |



**CLIENT:** Mactec  
**Work Order:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_DM**

|                            |                        |                                      |                    |                                |                       |          |           |             |      |          |      |
|----------------------------|------------------------|--------------------------------------|--------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-74703</b> | SampType: <b>MBLK</b>  | TestCode: <b>8015_W_DM</b>           | Units: <b>mg/L</b> | Prep Date: <b>8/3/2011</b>     | RunNo: <b>135599</b>  |          |           |             |      |          |      |
| Client ID: <b>PBW</b>      | Batch ID: <b>74703</b> | TestNo: <b>EPA 8015B(M EPA 3510C</b> |                    | Analysis Date: <b>8/4/2011</b> | SeqNo: <b>2220873</b> |          |           |             |      |          |      |
| Analyte                    | Result                 | PQL                                  | SPK value          | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                   |       |      |         |  |      |    |     |  |  |  |  |
|-------------------|-------|------|---------|--|------|----|-----|--|--|--|--|
| DRO               | ND    | 0.20 |         |  |      |    |     |  |  |  |  |
| ORO               | ND    | 0.20 |         |  |      |    |     |  |  |  |  |
| Surr: p-Terphenyl | 0.037 |      | 0.08000 |  | 46.5 | 36 | 126 |  |  |  |  |

|                             |                        |                                      |                    |                                |                       |          |           |             |      |          |      |
|-----------------------------|------------------------|--------------------------------------|--------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-74703</b> | SampType: <b>LCS</b>   | TestCode: <b>8015_W_DM</b>           | Units: <b>mg/L</b> | Prep Date: <b>8/3/2011</b>     | RunNo: <b>135599</b>  |          |           |             |      |          |      |
| Client ID: <b>LCSW</b>      | Batch ID: <b>74703</b> | TestNo: <b>EPA 8015B(M EPA 3510C</b> |                    | Analysis Date: <b>8/4/2011</b> | SeqNo: <b>2220874</b> |          |           |             |      |          |      |
| Analyte                     | Result                 | PQL                                  | SPK value          | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                   |       |      |         |   |      |    |     |  |  |  |  |
|-------------------|-------|------|---------|---|------|----|-----|--|--|--|--|
| DRO               | 0.461 | 0.20 | 0.5000  | 0 | 92.1 | 52 | 128 |  |  |  |  |
| Surr: p-Terphenyl | 0.039 |      | 0.08000 |   | 48.3 | 36 | 126 |  |  |  |  |

|                              |                        |                                      |                    |                                |                       |          |           |             |      |          |      |
|------------------------------|------------------------|--------------------------------------|--------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-74703MS</b> | SampType: <b>MS</b>    | TestCode: <b>8015_W_DM</b>           | Units: <b>mg/L</b> | Prep Date: <b>8/3/2011</b>     | RunNo: <b>135599</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>      | Batch ID: <b>74703</b> | TestNo: <b>EPA 8015B(M EPA 3510C</b> |                    | Analysis Date: <b>8/4/2011</b> | SeqNo: <b>2220875</b> |          |           |             |      |          |      |
| Analyte                      | Result                 | PQL                                  | SPK value          | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

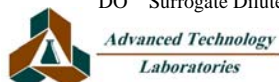
|                   |       |      |         |   |      |    |     |  |  |  |  |
|-------------------|-------|------|---------|---|------|----|-----|--|--|--|--|
| DRO               | 0.532 | 0.20 | 0.5000  | 0 | 106  | 52 | 128 |  |  |  |  |
| Surr: p-Terphenyl | 0.048 |      | 0.08000 |   | 59.7 | 36 | 126 |  |  |  |  |

|                               |                        |                                      |                    |                                |                       |          |           |             |      |          |      |
|-------------------------------|------------------------|--------------------------------------|--------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-74703MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>8015_W_DM</b>           | Units: <b>mg/L</b> | Prep Date: <b>8/3/2011</b>     | RunNo: <b>135599</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>       | Batch ID: <b>74703</b> | TestNo: <b>EPA 8015B(M EPA 3510C</b> |                    | Analysis Date: <b>8/4/2011</b> | SeqNo: <b>2220876</b> |          |           |             |      |          |      |
| Analyte                       | Result                 | PQL                                  | SPK value          | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                   |       |      |         |   |      |    |     |        |      |    |  |
|-------------------|-------|------|---------|---|------|----|-----|--------|------|----|--|
| DRO               | 0.481 | 0.20 | 0.5000  | 0 | 96.2 | 52 | 128 | 0.5317 | 9.99 | 20 |  |
| Surr: p-Terphenyl | 0.038 |      | 0.08000 |   | 48.1 | 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:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_G PRES**

| Sample ID: <b>M110801LCS2</b>  |        | SampType: <b>LCS</b>      |           | TestCode: <b>8015_W_G P</b> |      | Units: <b>mg/L</b>             |           | Prep Date:            |      | RunNo: <b>135493</b> |      |  |
|--------------------------------|--------|---------------------------|-----------|-----------------------------|------|--------------------------------|-----------|-----------------------|------|----------------------|------|--|
| Client ID: <b>LCSW</b>         |        | Batch ID: <b>M11VW151</b> |           | TestNo: <b>EPA 8015B(M)</b> |      | Analysis Date: <b>8/1/2011</b> |           | SeqNo: <b>2218831</b> |      |                      |      |  |
| Analyte                        | Result | PQL                       | SPK value | SPK Ref Val                 | %REC | LowLimit                       | HighLimit | RPD Ref Val           | %RPD | RPDLimit             | Qual |  |
| GRO                            | 1.106  | 0.20                      | 1.000     | 0                           | 111  | 70                             | 130       |                       |      |                      |      |  |
| Surr: Bromofluorobenzene (FID) | 91.018 |                           | 100.0     |                             | 91.0 | 70                             | 130       |                       |      |                      |      |  |

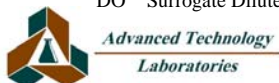
| Sample ID: <b>M110801MB1MS</b> |        | SampType: <b>MS</b>       |           | TestCode: <b>8015_W_G P</b> |      | Units: <b>mg/L</b>             |           | Prep Date:            |      | RunNo: <b>135493</b> |      |  |
|--------------------------------|--------|---------------------------|-----------|-----------------------------|------|--------------------------------|-----------|-----------------------|------|----------------------|------|--|
| Client ID: <b>ZZZZZ</b>        |        | Batch ID: <b>M11VW151</b> |           | TestNo: <b>EPA 8015B(M)</b> |      | Analysis Date: <b>8/1/2011</b> |           | SeqNo: <b>2218833</b> |      |                      |      |  |
| Analyte                        | Result | PQL                       | SPK value | SPK Ref Val                 | %REC | LowLimit                       | HighLimit | RPD Ref Val           | %RPD | RPDLimit             | Qual |  |
| GRO                            | 1.098  | 0.20                      | 1.000     | 0                           | 110  | 70                             | 130       |                       |      |                      |      |  |
| Surr: Bromofluorobenzene (FID) | 90.442 |                           | 100.0     |                             | 90.4 | 70                             | 130       |                       |      |                      |      |  |

| Sample ID: <b>M110801MB1MSD</b> |        | SampType: <b>MSD</b>      |           | TestCode: <b>8015_W_G P</b> |      | Units: <b>mg/L</b>             |           | Prep Date:            |      | RunNo: <b>135493</b> |      |  |
|---------------------------------|--------|---------------------------|-----------|-----------------------------|------|--------------------------------|-----------|-----------------------|------|----------------------|------|--|
| Client ID: <b>ZZZZZ</b>         |        | Batch ID: <b>M11VW151</b> |           | TestNo: <b>EPA 8015B(M)</b> |      | Analysis Date: <b>8/1/2011</b> |           | SeqNo: <b>2218834</b> |      |                      |      |  |
| Analyte                         | Result | PQL                       | SPK value | SPK Ref Val                 | %REC | LowLimit                       | HighLimit | RPD Ref Val           | %RPD | RPDLimit             | Qual |  |
| GRO                             | 1.036  | 0.20                      | 1.000     | 0                           | 104  | 70                             | 130       | 1.098                 | 5.81 | 20                   |      |  |
| Surr: Bromofluorobenzene (FID)  | 89.859 |                           | 100.0     |                             | 89.9 | 70                             | 130       |                       | 0    | 0                    |      |  |

| Sample ID: <b>M110801MB1</b>   |        | SampType: <b>MBLK</b>     |           | TestCode: <b>8015_W_G P</b> |      | Units: <b>mg/L</b>             |           | Prep Date:            |      | RunNo: <b>135493</b> |      |  |
|--------------------------------|--------|---------------------------|-----------|-----------------------------|------|--------------------------------|-----------|-----------------------|------|----------------------|------|--|
| Client ID: <b>PBW</b>          |        | Batch ID: <b>M11VW151</b> |           | TestNo: <b>EPA 8015B(M)</b> |      | Analysis Date: <b>8/1/2011</b> |           | SeqNo: <b>2218835</b> |      |                      |      |  |
| Analyte                        | Result | PQL                       | SPK value | SPK Ref Val                 | %REC | LowLimit                       | HighLimit | RPD Ref Val           | %RPD | RPDLimit             | Qual |  |
| GRO                            | ND     | 0.20                      |           |                             |      |                                |           |                       |      |                      |      |  |
| Surr: Bromofluorobenzene (FID) | 88.225 |                           | 100.0     |                             | 88.2 | 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:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_S\_5035**

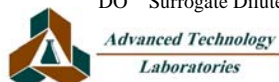
| Sample ID: <b>K110801LCS1</b> | SampType: <b>LCS</b>      | TestCode: <b>8260_S_5035</b> | Units: <b>µg/Kg</b> | Prep Date:                     | RunNo: <b>135474</b>  |          |           |             |      |          |      |
|-------------------------------|---------------------------|------------------------------|---------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>K11VS200</b> | TestNo: <b>EPA 8260B</b>     |                     | Analysis Date: <b>8/1/2011</b> | SeqNo: <b>2220034</b> |          |           |             |      |          |      |
| Analyte                       | Result                    | PQL                          | SPK value           | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene            | 50.640                    | 5.0                          | 50.00               | 0                              | 101                   | 70       | 130       |             |      |          |      |
| Benzene                       | 97.810                    | 5.0                          | 100.0               | 0                              | 97.8                  | 70       | 130       |             |      |          |      |
| Chlorobenzene                 | 52.090                    | 5.0                          | 50.00               | 0                              | 104                   | 70       | 130       |             |      |          |      |
| MTBE                          | 61.640                    | 5.0                          | 50.00               | 0                              | 123                   | 70       | 130       |             |      |          |      |
| Toluene                       | 97.780                    | 5.0                          | 100.0               | 0                              | 97.8                  | 70       | 130       |             |      |          |      |
| Trichloroethene               | 49.750                    | 5.0                          | 50.00               | 0                              | 99.5                  | 70       | 130       |             |      |          |      |
| Surr: 1,2-Dichloroethane-d4   | 55.800                    |                              | 50.00               |                                | 112                   | 65       | 141       |             |      |          |      |
| Surr: 4-Bromofluorobenzene    | 46.860                    |                              | 50.00               |                                | 93.7                  | 57       | 134       |             |      |          |      |
| Surr: Dibromofluoromethane    | 51.130                    |                              | 50.00               |                                | 102                   | 70       | 128       |             |      |          |      |
| Surr: Toluene-d8              | 46.710                    |                              | 50.00               |                                | 93.4                  | 72       | 123       |             |      |          |      |

| Sample ID: <b>K110801MB1MS</b> | SampType: <b>MS</b>       | TestCode: <b>8260_S_5035</b> | Units: <b>µg/Kg</b> | Prep Date:                     | RunNo: <b>135474</b>  |          |           |             |      |          |      |
|--------------------------------|---------------------------|------------------------------|---------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZZ</b>       | Batch ID: <b>K11VS200</b> | TestNo: <b>EPA 8260B</b>     |                     | Analysis Date: <b>8/1/2011</b> | SeqNo: <b>2220035</b> |          |           |             |      |          |      |
| Analyte                        | Result                    | PQL                          | SPK value           | SPK Ref Val                    | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene             | 49.230                    | 5.0                          | 50.00               | 0                              | 98.5                  | 70       | 130       |             |      |          |      |
| Benzene                        | 97.090                    | 5.0                          | 100.0               | 0                              | 97.1                  | 70       | 130       |             |      |          |      |
| Chlorobenzene                  | 51.750                    | 5.0                          | 50.00               | 0                              | 104                   | 70       | 130       |             |      |          |      |
| MTBE                           | 60.900                    | 5.0                          | 50.00               | 0                              | 122                   | 70       | 130       |             |      |          |      |
| Toluene                        | 97.340                    | 5.0                          | 100.0               | 0                              | 97.3                  | 70       | 130       |             |      |          |      |
| Trichloroethene                | 49.210                    | 5.0                          | 50.00               | 0                              | 98.4                  | 70       | 130       |             |      |          |      |
| Surr: 1,2-Dichloroethane-d4    | 53.210                    |                              | 50.00               |                                | 106                   | 65       | 141       |             |      |          |      |
| Surr: 4-Bromofluorobenzene     | 46.480                    |                              | 50.00               |                                | 93.0                  | 57       | 134       |             |      |          |      |
| Surr: Dibromofluoromethane     | 51.630                    |                              | 50.00               |                                | 103                   | 70       | 128       |             |      |          |      |
| Surr: Toluene-d8               | 46.590                    |                              | 50.00               |                                | 93.2                  | 72       | 123       |             |      |          |      |

| Sample ID: <b>K110801MB1MSD</b> | SampType: <b>MSD</b>      | TestCode: <b>8260_S_5035</b> | Units: <b>µg/Kg</b> | Prep Date:                     | RunNo: <b>135474</b>  |          |           |             |      |          |      |
|---------------------------------|---------------------------|------------------------------|---------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZZ</b>        | Batch ID: <b>K11VS200</b> | TestNo: <b>EPA 8260B</b>     |                     | Analysis Date: <b>8/1/2011</b> | SeqNo: <b>2220036</b> |          |           |             |      |          |      |
| 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   |  |



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

CLIENT: Mactec

Work Order: 119195

Project: METRO WESTSIDE EXTENSION, 4953-10-1

# ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_S\_5035

| Analyte                     | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
|-----------------------------|--------|-----|-----------|-------------|------|----------|-----------|-------------|-------|----------|------|
| 1,1-Dichloroethene          | 47.640 | 5.0 | 50.00     | 0           | 95.3 | 70       | 130       | 49.23       | 3.28  | 20       |      |
| Benzene                     | 96.990 | 5.0 | 100.0     | 0           | 97.0 | 70       | 130       | 97.09       | 0.103 | 20       |      |
| Chlorobenzene               | 50.550 | 5.0 | 50.00     | 0           | 101  | 70       | 130       | 51.75       | 2.35  | 20       |      |
| MTBE                        | 59.970 | 5.0 | 50.00     | 0           | 120  | 70       | 130       | 60.90       | 1.54  | 20       |      |
| Toluene                     | 97.170 | 5.0 | 100.0     | 0           | 97.2 | 70       | 130       | 97.34       | 0.175 | 20       |      |
| Trichloroethene             | 48.820 | 5.0 | 50.00     | 0           | 97.6 | 70       | 130       | 49.21       | 0.796 | 20       |      |
| Surr: 1,2-Dichloroethane-d4 | 52.940 |     | 50.00     |             | 106  | 65       | 141       |             | 0     | 0        |      |
| Surr: 4-Bromofluorobenzene  | 44.580 |     | 50.00     |             | 89.2 | 57       | 134       |             | 0     | 0        |      |
| Surr: Dibromofluoromethane  | 50.720 |     | 50.00     |             | 101  | 70       | 128       |             | 0     | 0        |      |
| Surr: Toluene-d8            | 47.420 |     | 50.00     |             | 94.8 | 72       | 123       |             | 0     | 0        |      |

| 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



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CLIENT: Mactec

Work Order: 119195

Project: METRO WESTSIDE EXTENSION, 4953-10-1

# ANALYTICAL QC SUMMARY REPORT

TestCode: 8260\_S\_5035

|                              |                           |                              |                     |                                |                       |          |           |             |      |          |      |
|------------------------------|---------------------------|------------------------------|---------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>K110801MB1</b> | SampType: <b>MBLK</b>     | TestCode: <b>8260_S_5035</b> | Units: <b>µg/Kg</b> | Prep Date:                     | RunNo: <b>135474</b>  |          |           |             |      |          |      |
| Client ID: <b>PBS</b>        | Batch ID: <b>K11VS200</b> | TestNo: <b>EPA 8260B</b>     |                     | Analysis Date: <b>8/1/2011</b> | SeqNo: <b>2220037</b> |          |           |             |      |          |      |
| 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
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**CLIENT:** Mactec  
**Work Order:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_S\_5035**

| Sample ID: <b>K110801MB1</b> | SampType: <b>MBLK</b>     | TestCode: <b>8260_S_5035</b> | Units: <b>µg/Kg</b>            | Prep Date:            | RunNo: <b>135474</b> |          |           |             |      |          |      |
|------------------------------|---------------------------|------------------------------|--------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>PBS</b>        | Batch ID: <b>K11VS200</b> | TestNo: <b>EPA 8260B</b>     | Analysis Date: <b>8/1/2011</b> | SeqNo: <b>2220037</b> |                      |          |           |             |      |          |      |
| 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  | 55.660                    |                              | 50.00                          |                       | 111                  | 65       | 141       |             |      |          |      |
| Surr: 4-Bromofluorobenzene   | 43.630                    |                              | 50.00                          |                       | 87.3                 | 57       | 134       |             |      |          |      |
| Surr: Dibromofluoromethane   | 51.660                    |                              | 50.00                          |                       | 103                  | 70       | 128       |             |      |          |      |
| Surr: Toluene-d8             | 47.360                    |                              | 50.00                          |                       | 94.7                 | 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   |  |



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**CLIENT:** Mactec  
**Work Order:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_LL**

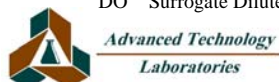
| Sample ID: <b>Q110801CS1</b> |        | SampType: <b>LCS</b>      |           | TestCode: <b>8260_WP_LL</b> |      | Units: <b>µg/L</b> |           | Prep Date:                     |      | RunNo: <b>135509</b>  |      |  |
|------------------------------|--------|---------------------------|-----------|-----------------------------|------|--------------------|-----------|--------------------------------|------|-----------------------|------|--|
| Client ID: <b>LCSW</b>       |        | Batch ID: <b>Q11VW142</b> |           | TestNo: <b>EPA 8260B</b>    |      |                    |           | Analysis Date: <b>8/1/2011</b> |      | SeqNo: <b>2218975</b> |      |  |
| Analyte                      | Result | PQL                       | SPK value | SPK Ref Val                 | %REC | LowLimit           | HighLimit | RPD Ref Val                    | %RPD | RPDLimit              | Qual |  |
| 1,1-Dichloroethene           | 16.890 | 0.50                      | 20.00     | 0                           | 84.4 | 70                 | 130       |                                |      |                       |      |  |
| Benzene                      | 38.700 | 0.50                      | 40.00     | 0                           | 96.8 | 70                 | 130       |                                |      |                       |      |  |
| Chlorobenzene                | 20.100 | 0.50                      | 20.00     | 0                           | 101  | 70                 | 130       |                                |      |                       |      |  |
| MTBE                         | 21.320 | 0.50                      | 20.00     | 0                           | 107  | 70                 | 130       |                                |      |                       |      |  |
| Toluene                      | 40.520 | 0.50                      | 40.00     | 0                           | 101  | 70                 | 130       |                                |      |                       |      |  |
| Trichloroethene              | 20.050 | 0.50                      | 20.00     | 0                           | 100  | 70                 | 130       |                                |      |                       |      |  |
| Surr: 1,2-Dichloroethane-d4  | 17.690 |                           | 25.00     |                             | 70.8 | 70                 | 130       |                                |      |                       |      |  |
| Surr: 4-Bromofluorobenzene   | 24.030 |                           | 25.00     |                             | 96.1 | 70                 | 130       |                                |      |                       |      |  |
| Surr: Dibromofluoromethane   | 20.230 |                           | 25.00     |                             | 80.9 | 70                 | 130       |                                |      |                       |      |  |
| Surr: Toluene-d8             | 22.470 |                           | 25.00     |                             | 89.9 | 70                 | 130       |                                |      |                       |      |  |

| Sample ID: <b>Q110801MB3MS</b> |        | SampType: <b>MS</b>       |           | TestCode: <b>8260_WP_LL</b> |      | Units: <b>µg/L</b> |           | Prep Date:                     |      | RunNo: <b>135509</b>  |      |  |
|--------------------------------|--------|---------------------------|-----------|-----------------------------|------|--------------------|-----------|--------------------------------|------|-----------------------|------|--|
| Client ID: <b>ZZZZZ</b>        |        | Batch ID: <b>Q11VW142</b> |           | TestNo: <b>EPA 8260B</b>    |      |                    |           | Analysis Date: <b>8/1/2011</b> |      | SeqNo: <b>2218976</b> |      |  |
| Analyte                        | Result | PQL                       | SPK value | SPK Ref Val                 | %REC | LowLimit           | HighLimit | RPD Ref Val                    | %RPD | RPDLimit              | Qual |  |
| 1,1-Dichloroethene             | 16.840 | 0.50                      | 20.00     | 0                           | 84.2 | 70                 | 130       |                                |      |                       |      |  |
| Benzene                        | 38.590 | 0.50                      | 40.00     | 0                           | 96.5 | 70                 | 130       |                                |      |                       |      |  |
| Chlorobenzene                  | 19.930 | 0.50                      | 20.00     | 0                           | 99.7 | 70                 | 130       |                                |      |                       |      |  |
| MTBE                           | 22.020 | 0.50                      | 20.00     | 0                           | 110  | 70                 | 130       |                                |      |                       |      |  |
| Toluene                        | 40.080 | 0.50                      | 40.00     | 0                           | 100  | 70                 | 130       |                                |      |                       |      |  |
| Trichloroethene                | 20.220 | 0.50                      | 20.00     | 0                           | 101  | 70                 | 130       |                                |      |                       |      |  |
| Surr: 1,2-Dichloroethane-d4    | 18.080 |                           | 25.00     |                             | 72.3 | 70                 | 130       |                                |      |                       |      |  |
| Surr: 4-Bromofluorobenzene     | 24.460 |                           | 25.00     |                             | 97.8 | 70                 | 130       |                                |      |                       |      |  |
| Surr: Dibromofluoromethane     | 20.500 |                           | 25.00     |                             | 82.0 | 70                 | 130       |                                |      |                       |      |  |
| Surr: Toluene-d8               | 22.550 |                           | 25.00     |                             | 90.2 | 70                 | 130       |                                |      |                       |      |  |

| Sample ID: <b>Q110801MB3MSD</b> |        | SampType: <b>MSD</b>      |           | TestCode: <b>8260_WP_LL</b> |      | Units: <b>µg/L</b> |           | Prep Date:                     |      | RunNo: <b>135509</b>  |      |  |
|---------------------------------|--------|---------------------------|-----------|-----------------------------|------|--------------------|-----------|--------------------------------|------|-----------------------|------|--|
| Client ID: <b>ZZZZZ</b>         |        | Batch ID: <b>Q11VW142</b> |           | TestNo: <b>EPA 8260B</b>    |      |                    |           | Analysis Date: <b>8/1/2011</b> |      | SeqNo: <b>2218977</b> |      |  |
| 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:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

## ANALYTICAL QC SUMMARY REPORT

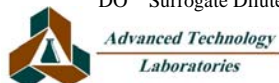
**TestCode: 8260\_WP\_LL**

| Sample ID: <b>Q110801MB3MSD</b> |        | SampType: <b>MSD</b>      |           | TestCode: <b>8260_WP_LL</b> |      | Units: <b>µg/L</b>             |           | Prep Date:  |        | RunNo: <b>135509</b>  |      |
|---------------------------------|--------|---------------------------|-----------|-----------------------------|------|--------------------------------|-----------|-------------|--------|-----------------------|------|
| Client ID: <b>ZZZZZZ</b>        |        | Batch ID: <b>Q11VW142</b> |           | TestNo: <b>EPA 8260B</b>    |      | Analysis Date: <b>8/1/2011</b> |           |             |        | SeqNo: <b>2218977</b> |      |
| Analyte                         | Result | PQL                       | SPK value | SPK Ref Val                 | %REC | LowLimit                       | HighLimit | RPD Ref Val | %RPD   | RPDLimit              | Qual |
| 1,1-Dichloroethene              | 17.150 | 0.50                      | 20.00     | 0                           | 85.8 | 70                             | 130       | 16.84       | 1.82   | 20                    |      |
| Benzene                         | 39.160 | 0.50                      | 40.00     | 0                           | 97.9 | 70                             | 130       | 38.59       | 1.47   | 20                    |      |
| Chlorobenzene                   | 19.760 | 0.50                      | 20.00     | 0                           | 98.8 | 70                             | 130       | 19.93       | 0.857  | 20                    |      |
| MTBE                            | 21.440 | 0.50                      | 20.00     | 0                           | 107  | 70                             | 130       | 22.02       | 2.67   | 20                    |      |
| Toluene                         | 40.360 | 0.50                      | 40.00     | 0                           | 101  | 70                             | 130       | 40.08       | 0.696  | 20                    |      |
| Trichloroethene                 | 20.200 | 0.50                      | 20.00     | 0                           | 101  | 70                             | 130       | 20.22       | 0.0990 | 20                    |      |
| Surr: 1,2-Dichloroethane-d4     | 17.940 |                           | 25.00     |                             | 71.8 | 70                             | 130       |             | 0      | 0                     |      |
| Surr: 4-Bromofluorobenzene      | 24.000 |                           | 25.00     |                             | 96.0 | 70                             | 130       |             | 0      | 0                     |      |
| Surr: Dibromofluoromethane      | 20.510 |                           | 25.00     |                             | 82.0 | 70                             | 130       |             | 0      | 0                     |      |
| Surr: Toluene-d8                | 22.720 |                           | 25.00     |                             | 90.9 | 70                             | 130       |             | 0      | 0                     |      |

| Sample ID: <b>Q110801MB3</b> |        | SampType: <b>MBLK</b>     |           | TestCode: <b>8260_WP_LL</b> |      | Units: <b>µg/L</b>             |           | Prep Date:  |      | RunNo: <b>135509</b>  |      |
|------------------------------|--------|---------------------------|-----------|-----------------------------|------|--------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: <b>PBW</b>        |        | Batch ID: <b>Q11VW142</b> |           | TestNo: <b>EPA 8260B</b>    |      | Analysis Date: <b>8/1/2011</b> |           |             |      | SeqNo: <b>2218978</b> |      |
| 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:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_LL**

|                              |                           |                             |                    |                                |                       |          |           |             |      |          |      |
|------------------------------|---------------------------|-----------------------------|--------------------|--------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>Q110801MB3</b> | SampType: <b>MBLK</b>     | TestCode: <b>8260_WP_LL</b> | Units: <b>µg/L</b> | Prep Date:                     | RunNo: <b>135509</b>  |          |           |             |      |          |      |
| Client ID: <b>PBW</b>        | Batch ID: <b>Q11VW142</b> | TestNo: <b>EPA 8260B</b>    |                    | Analysis Date: <b>8/1/2011</b> | SeqNo: <b>2218978</b> |          |           |             |      |          |      |
| 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 | 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:** 119195  
**Project:** METRO WESTSIDE EXTENSION, 4953-10-1

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_LL**

| Sample ID: <b>Q110801MB3</b> | SampType: <b>MBLK</b>     | TestCode: <b>8260_WP_LL</b> | Units: <b>µg/L</b>             | Prep Date:            | RunNo: <b>135509</b> |          |           |             |      |          |      |
|------------------------------|---------------------------|-----------------------------|--------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>PBW</b>        | Batch ID: <b>Q11VW142</b> | TestNo: <b>EPA 8260B</b>    | Analysis Date: <b>8/1/2011</b> | SeqNo: <b>2218978</b> |                      |          |           |             |      |          |      |
| 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  | 19.160                    |                             | 25.00                          |                       | 76.6                 | 70       | 130       |             |      |          |      |
| Surr: 4-Bromofluorobenzene   | 24.670                    |                             | 25.00                          |                       | 98.7                 | 70       | 130       |             |      |          |      |
| Surr: Dibromofluoromethane   | 22.100                    |                             | 25.00                          |                       | 88.4                 | 70       | 130       |             |      |          |      |
| Surr: Toluene-d8             | 23.170                    |                             | 25.00                          |                       | 92.7                 | 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   |  |



*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

Client: **MARTEC**  
 Attn: **MATT FRAYCHINEAUD**

Project Name: **METRO WESTSIDE EXTENSION**  
 Relinquished by: **DUAN D. SWIDER** Date: **7-29-11** Time: **7:00**  
 Relinquished by: **MATT FRAYCHINEAUD** Date: **7/29/11** Time: **1:30**  
 Relinquished by: **MATT FRAYCHINEAUD** Date: **7/29/11** Time: **1:35**

Method of Transport:  
 Client  ATL  
 FedEx  OnTrac  
 GSO  
 Other: \_\_\_\_\_

Quote #: **KFT6** Date: **7/29/11**

Logged By: \_\_\_\_\_ Date: **7/29/11**

NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY:  
 Sample Condition Upon Receipt:  
 1. CHILLED  Y  N  4. SEALED  Y  N     
 2. HEADSPACE (VOA)  Y  N  5. # OF SPLS MATCH COC  Y  N   
 3. CONTAINER INTACT  Y  N  6. PRESERVED  Y  N

Address: **5628 E. SLAUSON AVE** State: **CA** Zip Code: **90404**  
 City: **LOS ANGELES** State: **CA** Zip Code: **90404**

Project #: **4953-10-1561** Sampler: **DUAN D. SWIDER**  
 Relinquished by: **DUAN D. SWIDER** Date: **7-29-11** Time: **7:00**  
 Relinquished by: **MATT FRAYCHINEAUD** Date: **7/29/11** Time: **1:30**  
 Relinquished by: **MATT FRAYCHINEAUD** Date: **7/29/11** Time: **1:35**

Special Instructions/Comments: \_\_\_\_\_

Circle or Add Analysis(es) Requested:  
 8081A (Pesticides) \_\_\_\_\_  
 8082 (PCB) \_\_\_\_\_  
 8260B (Nitrates) \_\_\_\_\_  
 8270C (Nitrates) \_\_\_\_\_  
 6010B (TSM) \_\_\_\_\_  
 8015B (GRO) \_\_\_\_\_  
 8015B (DRO) \_\_\_\_\_  
 TITLE 22 / CAM 17 (6010 / 7000) \_\_\_\_\_

Method of Transport:  
 Client  ATL  
 FedEx  OnTrac  
 GSO  
 Other: \_\_\_\_\_

NOTE: Please include your Quote No. to ensure proper pricing of your project.

LAB USE ONLY:  
 Batch #: \_\_\_\_\_  
 Lab No. \_\_\_\_\_

Sample Description

| LAB USE ONLY: Batch # / Lab No. | Sample I.D. / Location | Date | Time  |
|---------------------------------|------------------------|------|-------|
| 119195-107                      | E-111-15               | 7/28 | 10:05 |
| 2                               | E-111-55               | 7/28 | 12:40 |
| 3                               | E-111-70               | 7/28 | 14:15 |
| 4                               | E-111-64               | 7/28 | 11:30 |
| 5                               | E-111-10               | 7/28 | 10:00 |
| 6                               | E-111-20               | 7/28 | 10:10 |
| 7                               | E-111-25               | 7/28 | 10:20 |
| 8                               | E-111-30               | 7/28 | 10:30 |
| 9                               | E-111-35               | 7/28 | 10:40 |
| 10                              | E-111-45               | 7/28 | 11:45 |

| LAB USE ONLY: Batch # / Lab No. | Sample I.D. / Location | Date | Time  | SPECIFY APPROPRIATE MATRIX |      |                |              |            |            |         | TAT # | Type | REMARKS |      |
|---------------------------------|------------------------|------|-------|----------------------------|------|----------------|--------------|------------|------------|---------|-------|------|---------|------|
|                                 |                        |      |       | SEDIMENT                   | SOIL | DRINKING WATER | GROUND WATER | WASTEWATER | STORMWATER | AQUEOUS |       |      |         |      |
| 119195-107                      | E-111-15               | 7/28 | 10:05 |                            | X    |                |              |            |            |         |       | E    | TV      |      |
| 2                               | E-111-55               | 7/28 | 12:40 |                            | X    |                |              |            |            |         |       | E    | TV      |      |
| 3                               | E-111-70               | 7/28 | 14:15 |                            | X    |                |              |            |            |         |       | E    | TV      |      |
| 4                               | E-111-64               | 7/28 | 11:30 |                            | X    |                |              |            |            | X       |       | E    | JV      |      |
| 5                               | E-111-10               | 7/28 | 10:00 |                            | X    |                |              |            |            |         |       | 1    | T       | Hold |
| 6                               | E-111-20               | 7/28 | 10:10 |                            | X    |                |              |            |            |         |       | 1    | T       | Hold |
| 7                               | E-111-25               | 7/28 | 10:20 |                            | X    |                |              |            |            |         |       | 1    | T       | Hold |
| 8                               | E-111-30               | 7/28 | 10:30 |                            | X    |                |              |            |            |         |       | E    | ZT      | Hold |
| 9                               | E-111-35               | 7/28 | 10:40 |                            | X    |                |              |            |            |         |       | 2    | T       | Hold |
| 10                              | E-111-45               | 7/28 | 11:45 |                            | X    |                |              |            |            |         |       | 2    | T       | Hold |

Circle or Add Analysis(es) Requested:  
 8081A (Pesticides) \_\_\_\_\_  
 8082 (PCB) \_\_\_\_\_  
 8260B (Nitrates) \_\_\_\_\_  
 8270C (Nitrates) \_\_\_\_\_  
 6010B (TSM) \_\_\_\_\_  
 8015B (GRO) \_\_\_\_\_  
 8015B (DRO) \_\_\_\_\_  
 TITLE 22 / CAM 17 (6010 / 7000) \_\_\_\_\_

Special Instructions/Comments: \_\_\_\_\_

Method of Transport:  
 Client  ATL  
 FedEx  OnTrac  
 GSO  
 Other: \_\_\_\_\_

NOTE: Please include your Quote No. to ensure proper pricing of your project.

Preservatives:  
 H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C  
 Z=Zn(AC)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

TAT:  A= Overnight ≤ 24 hrs  B= Emergency Next workday  C= Critical 2 Workdays  D= Urgent 3 Workdays  E= Routine 7 Workdays

• TAT starts 8 a.m. following day if samples received after 5 p.m.

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

Rev. 2010-0325

# CHAIN OF CUSTODY RECORD

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

P.O.#: 201106374 Quote #: 1476  
 Logged By: \_\_\_\_\_ Date: \_\_\_\_\_  
 NOTE: Please include your Quote No. to ensure proper pricing of your project.

**FOR LABORATORY USE ONLY:**  
 Method of Transport:  Client  ATL  FedEx  OnTrac  
 GSO  Other: \_\_\_\_\_  
 Sample Condition Upon Receipt:  
 1. CHILLED Y  N  4. SEALED Y  N   
 2. HEADSPACE (VOA) Y  N  5. # OF SPLS MATCH COC Y  N   
 3. CONTAINER INTACT Y  N  6. PRESERVED Y  N

Client: MACTEC Address: 5628 E. SLAVSON AVE State: CA Zip Code: 90040  
 Attn: MATT FRAYCHINEAUD City: LOS ANGELES State: CA Zip Code: 90040  
 Project Name: MARCO WESTSIDE EXTENSION Project #: 4953-10-1561 Sampler: DIAN D. SUIDER  
 Relinquished by: DIAN D. SUIDER Date: 7-29-11 Time: 7:00 Received by: MATT FRAYCHINEAUD Date: 7-29-11 Time: 10:30  
 Relinquished by: MATT FRAYCHINEAUD Date: 7/29/11 Time: 10:30 Received by: MATT FRAYCHINEAUD Date: 7/29/11 Time: 10:30  
 Relinquished by: MATT FRAYCHINEAUD Date: 7/29/11 Time: 11:55 Received by: MATT FRAYCHINEAUD Date: 7/29/11 Time: 11:55

I hereby authorize ATL to perform the work indicated below:  
 Project Mgr / Submitter: MATT FRAYCHINEAUD Date: 7/29/11  
 Signature: [Signature] Date: 7/29/11

**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)

| LAB USE ONLY: | Sample Description | Sample I.D. / Location | Date | Time  |
|---------------|--------------------|------------------------|------|-------|
| 119195-11     |                    | E-111-50               | 7/28 | 12:20 |
| 12            |                    | E-111-60               | 7/28 | 13:00 |
| 13            |                    | E-111-65               | 7/28 | 13:40 |
| 14            |                    | E-111-75               | 7/28 | 14:50 |

Special Instructions/Comments: \_\_\_\_\_  
 Bill To: \_\_\_\_\_ Attn: \_\_\_\_\_  
 Co: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Addr: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

**Circle or Add Analysis(es) Requested:**  
 8081A (Pesticides)  8260B (Wattles)  8270C (BNA)  6010B (Total Metal)  8015B (GRO) / 8021 (BTEX)  8015B (DRO)  TITLE 22 / CAM 17 (6010 / 7000)   
 SEDIMENT  SOIL  DRINKING WATER  GROUND WATER  WASTEWATER  STORMWATER  AQUEOUS

**Container(s)**  
 TAT # Type  
 1 T Hold  
 1 T Hold  
 1 T Hold  
 2 T Hold

**QA/QC**  
 RTNE  CT  Legal   
 SWRCB  Logcode  OTHER \_\_\_\_\_  
 REMARKS: \_\_\_\_\_

**Preservatives:**  
 H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C  
 Z=Zn(AC)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

Figure I-1.435

## Fernando Diwa

---

**From:** Rachelle Arada  
**Sent:** Friday, July 29, 2011 3:45 PM  
**To:** Fernando Diwa  
**Cc:** Carmen Aguila; customer.relations  
**Subject:** FW: Westside Extension Samples: Boring E-111

---

**From:** Fraychineaud, Matt [<mailto:MFRAYCHINEAUD@mactec.com>]  
**Sent:** Friday, July 29, 2011 3:42 PM  
**To:** Rachelle Arada  
**Subject:** Westside Extension Samples: Boring E-111

Hi Rachelle:

Per my discussion with Margo this afternoon, please analyze the groundwater samples for:

- VOC + Oxy
- TPH-G/D/O

We forgot to mark that on the COC. Tell Margo thanks for catching that.

Matt

Matt Fraychineaud  
Principal Geologist  
AMEC  
5628 East Slauson Avenue  
Los Angeles, CA 90040  
(323) 889-5310  
[mfraychineaud@mactec.com](mailto:mfraychineaud@mactec.com)