

CLIENT: Mactec
Work Order: 119284
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| Sample ID: A110811MB3 | | SampType: MBLK | | TestCode: 8260_WP_LL Units: µg/L | | Prep Date: | | RunNo: 135768 | | | |
|------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: PBW | | Batch ID: A11VW136 | | TestNo: EPA 8260B | | Analysis Date: 8/11/2011 | | SeqNo: 2223790 | | | |
| 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 | |



CLIENT: Mactec
Work Order: 119284
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| Sample ID: A110811MB3 | | SampType: MBLK | | TestCode: 8260_WP_LL Units: µg/L | | Prep Date: | | RunNo: 135768 | | | |
|------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: PBW | | Batch ID: A11VW136 | | TestNo: EPA 8260B | | Analysis Date: 8/11/2011 | | SeqNo: 2223790 | | | |
| 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 | 26.000 | | 25.00 | | 104 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 23.620 | | 25.00 | | 94.5 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 28.380 | | 25.00 | | 114 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 26.880 | | 25.00 | | 108 | 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 | |



CHAIN OF CUSTODY RECORD



ADVANCED TECHNOLOGY

LABORATORIES

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

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

P.O.#: 201106374 Quote #: 1476
 Logged By: _____ Date: 8/5/11
 NOTE: Please include your Quote No. to ensure proper pricing of your project.

Client: MAETEC Address: 5628 E. Slauson Ave TEL: _____
 Attn: MATT FRAYCHINGAUD City: LOS ANGELES State: CA Zip Code: 90040 FAX: _____
 Project Name: METRO WESTSIDE EXTENSION Project #: 4953-10-1561 Sampler: DUANE D. SANDER (Printed Name)
 Relinquished by: MATT FRAYCHINGAUD Date: 8/5/11 Time: 1612 Received by: MATT FRAYCHINGAUD Date: 8/5/11 Time: 0100
 Relinquished by: MATT FRAYCHINGAUD Date: 8/5/11 Time: 1635 Received by: MATT FRAYCHINGAUD Date: 8/5/11 Time: 1612
 Relinquished by: MATT FRAYCHINGAUD Date: 8/5/11 Time: 1635 Received by: MATT FRAYCHINGAUD Date: 8/5/11 Time: 1635

I hereby authorize ATL to perform the work indicated below:
 Project Mgr./Submitter: MATT F. FRAYCHINGAUD
 Signature: _____ Date: 8/5/11
 Bill To: _____ Attn: _____
 Co: _____
 Address: _____ City: _____ State: _____ Zip: _____

Special Instructions/Comments: _____

| ITEM | LAB USE ONLY: | | Sample Description | Date | Time |
|------|-------------------|---------|--------------------|------------|--------------|
| | Batch #: | Lab No. | | | |
| | <u>119254-007</u> | | <u>E-123-55</u> | <u>8/4</u> | <u>12:20</u> |
| | | | <u>E-123-60</u> | <u>8/4</u> | <u>12:55</u> |
| | | | <u>E-123-70</u> | <u>8/4</u> | <u>14:05</u> |
| | | | <u>E-123-6W</u> | <u>8/4</u> | <u>11:05</u> |
| | | | <u>E-123-30</u> | <u>8/4</u> | <u>10:20</u> |
| | | | <u>E-123-40</u> | <u>8/4</u> | <u>11:27</u> |
| | | | <u>E-123-50</u> | <u>8/4</u> | <u>11:55</u> |
| | | | <u>E-123-65</u> | <u>8/4</u> | <u>13:30</u> |

| SPECIFY APPROPRIATE MATRIX | Container(s) | PRESERVATION | | Q A / Q C |
|----------------------------|--------------|--------------|------|---|
| | | # | Type | |
| SEDIMENT | | | | RTNE <input type="checkbox"/> CT <input type="checkbox"/> Legal <input type="checkbox"/> SWRCB <input type="checkbox"/> Logcode <input type="checkbox"/> OTHER _____ |
| SOIL | | | | REMARKS |
| DRINKING WATER | | | | |
| GROUND WATER | | | | |
| WASTEWATER | | | | |
| STORMWATER | | | | |
| AQUEOUS | | | | |

Circle or Add Analysis(es) Requested:
 8081A (Pesticides) 8260B (Volatiles) 6010B (Total Metal) 8015B (GRO) 8015B (DRO) TITLE 22 / CAM 17 (6010 / 7000)

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

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

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

Figure I-1.836

July 27, 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.: 119042

RE: Metro Westside Extension, 4951101561

Attention: Matt Fraychineaud

Enclosed are the results for sample(s) received on July 20, 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 "Eddie F. 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.



CLIENT: Mactec
Project: Metro Westside Extension, 4951101561
Lab Order: 119042

CASE NARRATIVE

Sample Receiving / General Comments

Headspace >5-6 mm noted on all voa vials for sample E-124-GW.

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



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jul-11

| | |
|--|---|
| CLIENT: Mactec | Client Sample ID: E-124-55' |
| Lab Order: 119042 | Collection Date: 7/19/2011 12:42:00 PM |
| Project: Metro Westside Extension, 4951101561 | Matrix: SOIL |
| Lab ID: 119042-002A | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | |
|--------------------|--------------------|---------------------|--------------|
| RunID: MS4_110721A | QC Batch: K11VS194 | PrepDate: 7/19/2011 | Analyst: DDL |
|--------------------|--------------------|---------------------|--------------|

| Compound | Result | PQL | Qual | Units | DF | Date Analyzed |
|-----------------------------|--------|-----|------|-------|----|--------------------|
| 1,1,1,2-Tetrachloroethane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,1,1-Trichloroethane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,1,2,2-Tetrachloroethane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,1,2-Trichloroethane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,1-Dichloroethane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,1-Dichloroethene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,1-Dichloropropene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,2,3-Trichlorobenzene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,2,3-Trichloropropane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,2,4-Trichlorobenzene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,2,4-Trimethylbenzene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,2-Dibromo-3-chloropropane | ND | 9.8 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,2-Dibromoethane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,2-Dichlorobenzene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,2-Dichloroethane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,2-Dichloropropane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,3,5-Trimethylbenzene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,3-Dichlorobenzene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,3-Dichloropropane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 1,4-Dichlorobenzene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 2,2-Dichloropropane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 2-Chlorotoluene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 4-Chlorotoluene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| 4-Isopropyltoluene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Benzene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Bromobenzene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Bromodichloromethane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Bromoform | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Bromomethane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Carbon tetrachloride | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Chlorobenzene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Chloroethane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Chloroform | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Chloromethane | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |
| cis-1,2-Dichloroethene | ND | 4.9 | | µg/Kg | 1 | 7/21/2011 04:30 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jul-11

| | |
|--|---|
| CLIENT: Mactec | Client Sample ID: E-124-55' |
| Lab Order: 119042 | Collection Date: 7/19/2011 12:42:00 PM |
| Project: Metro Westside Extension, 4951101561 | Matrix: SOIL |
| Lab ID: 119042-002A | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | | | |
|-----------------------------|--------------------|---------------------|--------------|---|--------------------|
| RunID: MS4_110721A | QC Batch: K11VS194 | PrepDate: 7/19/2011 | Analyst: DDL | | |
| cis-1,3-Dichloropropene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Dibromochloromethane | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Dibromomethane | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Dichlorodifluoromethane | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Ethylbenzene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Hexachlorobutadiene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Isopropylbenzene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| m,p-Xylene | ND | 9.8 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Methylene chloride | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| n-Butylbenzene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| n-Propylbenzene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Naphthalene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| o-Xylene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| sec-Butylbenzene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Styrene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| tert-Butylbenzene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Tetrachloroethene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Toluene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| trans-1,2-Dichloroethene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Trichloroethene | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Trichlorofluoromethane | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Vinyl chloride | ND | 4.9 | µg/Kg | 1 | 7/21/2011 04:30 PM |
| Surr: 1,2-Dichloroethane-d4 | 114 | 65-141 | %REC | 1 | 7/21/2011 04:30 PM |
| Surr: 4-Bromofluorobenzene | 88.8 | 57-134 | %REC | 1 | 7/21/2011 04:30 PM |
| Surr: Dibromofluoromethane | 107 | 70-128 | %REC | 1 | 7/21/2011 04:30 PM |
| Surr: Toluene-d8 | 94.1 | 72-123 | %REC | 1 | 7/21/2011 04:30 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jul-11

CLIENT: Mactec
Lab Order: 119042
Project: Metro Westside Extension, 4951101561
Lab ID: 119042-003A

Client Sample ID: E-124-60'
Collection Date: 7/19/2011 12:55:00 PM
Matrix: SOIL

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

ICP METALS

EPA 3050B

EPA 6010B

| RunID: | ICP8_110722J | QC Batch: | 74487 | PrepDate: | 7/22/2011 | Analyst: | CBB |
|------------|--------------|-----------|-------|-----------|--------------------|----------|-----|
| Antimony | ND | 2.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Arsenic | 4.1 | 1.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Barium | 130 | 1.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Beryllium | ND | 1.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Cadmium | ND | 1.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Chromium | 43 | 1.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Cobalt | 16 | 1.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Copper | 18 | 2.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Lead | 4.2 | 1.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Molybdenum | ND | 1.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Nickel | 23 | 1.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Selenium | ND | 1.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Silver | ND | 1.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Thallium | ND | 1.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Vanadium | 73 | 1.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |
| Zinc | 60 | 1.0 | mg/Kg | 1 | 7/22/2011 08:59 PM | | |

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

| RunID: | AA5_110721B | QC Batch: | 74448 | PrepDate: | 7/21/2011 | Analyst: | VV |
|---------|-------------|-----------|-------|-----------|--------------------|----------|----|
| Mercury | ND | 0.10 | mg/Kg | 1 | 7/21/2011 06:04 PM | | |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jul-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-124-65' |
| Lab Order: 119042 | Collection Date: 7/19/2011 1:15:00 PM |
| Project: Metro Westside Extension, 4951101561 | Matrix: SOIL |
| Lab ID: 119042-004A | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | | | |
|-----------------------------|--------------------|---------------------|--------------|---|--------------------|
| RunID: MS4_110721A | QC Batch: K11VS194 | PrepDate: 7/19/2011 | Analyst: DDL | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,1,1-Trichloroethane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,1,2,2-Tetrachloroethane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,1,2-Trichloroethane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,1-Dichloroethane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,1-Dichloroethene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,1-Dichloropropene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,2,3-Trichlorobenzene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,2,3-Trichloropropane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,2,4-Trichlorobenzene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,2,4-Trimethylbenzene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,2-Dibromo-3-chloropropane | ND | 11 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,2-Dibromoethane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,2-Dichlorobenzene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,2-Dichloroethane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,2-Dichloropropane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,3,5-Trimethylbenzene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,3-Dichlorobenzene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,3-Dichloropropane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 1,4-Dichlorobenzene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 2,2-Dichloropropane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 2-Chlorotoluene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 4-Chlorotoluene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| 4-Isopropyltoluene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| Benzene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| Bromobenzene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| Bromodichloromethane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| Bromoform | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| Bromomethane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| Carbon tetrachloride | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| Chlorobenzene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| Chloroethane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| Chloroform | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| Chloromethane | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |
| cis-1,2-Dichloroethene | ND | 5.5 | µg/Kg | 1 | 7/21/2011 04:48 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jul-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-124-65' |
| Lab Order: 119042 | Collection Date: 7/19/2011 1:15:00 PM |
| Project: Metro Westside Extension, 4951101561 | Matrix: SOIL |
| Lab ID: 119042-004A | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | |
|-----------------------------|--------------------|---------------------|----------------------------|
| RunID: MS4_110721A | QC Batch: K11VS194 | PrepDate: 7/19/2011 | Analyst: DDL |
| cis-1,3-Dichloropropene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| Dibromochloromethane | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| Dibromomethane | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| Dichlorodifluoromethane | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| Ethylbenzene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| Hexachlorobutadiene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| Isopropylbenzene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| m,p-Xylene | ND | 11 | µg/Kg 1 7/21/2011 04:48 PM |
| Methylene chloride | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| n-Butylbenzene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| n-Propylbenzene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| Naphthalene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| o-Xylene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| sec-Butylbenzene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| Styrene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| tert-Butylbenzene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| Tetrachloroethene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| Toluene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| trans-1,2-Dichloroethene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| Trichloroethene | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| Trichlorofluoromethane | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| Vinyl chloride | ND | 5.5 | µg/Kg 1 7/21/2011 04:48 PM |
| Surr: 1,2-Dichloroethane-d4 | 109 | 65-141 | %REC 1 7/21/2011 04:48 PM |
| Surr: 4-Bromofluorobenzene | 88.8 | 57-134 | %REC 1 7/21/2011 04:48 PM |
| Surr: Dibromofluoromethane | 102 | 70-128 | %REC 1 7/21/2011 04:48 PM |
| Surr: Toluene-d8 | 94.6 | 72-123 | %REC 1 7/21/2011 04:48 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jul-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-124-70' |
| Lab Order: 119042 | Collection Date: 7/19/2011 1:30:00 PM |
| Project: Metro Westside Extension, 4951101561 | Matrix: SOIL |
| Lab ID: 119042-005A | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | |
|-----------------------------|--------------------|---------------------|----------------------------|
| RunID: MS4_110721A | QC Batch: K11VS194 | PrepDate: 7/19/2011 | Analyst: DDL |
| 1,1,1,2-Tetrachloroethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,1,1-Trichloroethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,1,2,2-Tetrachloroethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,1,2-Trichloroethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,1-Dichloroethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,1-Dichloroethene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,1-Dichloropropene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,2,3-Trichlorobenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,2,3-Trichloropropane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,2,4-Trichlorobenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,2,4-Trimethylbenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,2-Dibromo-3-chloropropane | ND | 9.6 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,2-Dibromoethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,2-Dichlorobenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,2-Dichloroethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,2-Dichloropropane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,3,5-Trimethylbenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,3-Dichlorobenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,3-Dichloropropane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 1,4-Dichlorobenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 2,2-Dichloropropane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 2-Chlorotoluene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 4-Chlorotoluene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| 4-Isopropyltoluene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Benzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Bromobenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Bromodichloromethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Bromoform | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Bromomethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Carbon tetrachloride | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Chlorobenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Chloroethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Chloroform | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Chloromethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| cis-1,2-Dichloroethene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jul-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-124-70' |
| Lab Order: 119042 | Collection Date: 7/19/2011 1:30:00 PM |
| Project: Metro Westside Extension, 4951101561 | Matrix: SOIL |
| Lab ID: 119042-005A | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | |
|-----------------------------|--------------------|---------------------|----------------------------|
| RunID: MS4_110721A | QC Batch: K11VS194 | PrepDate: 7/19/2011 | Analyst: DDL |
| cis-1,3-Dichloropropene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Dibromochloromethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Dibromomethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Dichlorodifluoromethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Ethylbenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Hexachlorobutadiene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Isopropylbenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| m,p-Xylene | ND | 9.6 | µg/Kg 1 7/21/2011 05:06 PM |
| Methylene chloride | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| n-Butylbenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| n-Propylbenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Naphthalene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| o-Xylene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| sec-Butylbenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Styrene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| tert-Butylbenzene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Tetrachloroethene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Toluene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| trans-1,2-Dichloroethene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Trichloroethene | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Trichlorofluoromethane | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Vinyl chloride | ND | 4.8 | µg/Kg 1 7/21/2011 05:06 PM |
| Surr: 1,2-Dichloroethane-d4 | 110 | 65-141 | %REC 1 7/21/2011 05:06 PM |
| Surr: 4-Bromofluorobenzene | 88.4 | 57-134 | %REC 1 7/21/2011 05:06 PM |
| Surr: Dibromofluoromethane | 104 | 70-128 | %REC 1 7/21/2011 05:06 PM |
| Surr: Toluene-d8 | 96.4 | 72-123 | %REC 1 7/21/2011 05:06 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jul-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-124-GW |
| Lab Order: 119042 | Collection Date: 7/19/2011 2:05:00 PM |
| Project: Metro Westside Extension, 4951101561 | Matrix: GROUNDWATER |
| Lab ID: 119042-007A | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | | | |
|-----------------------------|--------------------|-----------|--------------------|---|--------------------|
| RunID: MS11_110722A | QC Batch: A11VW124 | PrepDate: | Analyst: BD | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,1-Dichloroethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,1-Dichloroethene | 0.89 | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,1-Dichloropropene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,2-Dibromoethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,2-Dichloroethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,2-Dichloropropane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 1,4-Dichlorobenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 2,2-Dichloropropane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 2-Chlorotoluene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 4-Chlorotoluene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| 4-Isopropyltoluene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| Benzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| Bromobenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| Bromoform | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| Bromomethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| Carbon tetrachloride | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| Chlorobenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| Chloroethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| Chloroform | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| Chloromethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jul-11

CLIENT: Mactec
Lab Order: 119042
Project: Metro Westside Extension, 4951101561
Lab ID: 119042-007A

Client Sample ID: E-124-GW
Collection Date: 7/19/2011 2:05:00 PM
Matrix: GROUNDWATER

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS11_110722A | QC Batch: | A11VW124 | PrepDate: | Analyst: | BD |
|-----------------------------|--------------|-----------|----------|-----------|--------------------|----|
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Dibromochloromethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Dibromomethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Dichlorodifluoromethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Ethylbenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Hexachlorobutadiene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Isopropylbenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| m,p-Xylene | ND | 1.0 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Methylene chloride | ND | 1.0 | µg/L | 1 | 7/22/2011 01:32 PM | |
| n-Butylbenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| n-Propylbenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Naphthalene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| o-Xylene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| sec-Butylbenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Styrene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| tert-Butylbenzene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Tetrachloroethene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Toluene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| trans-1,2-Dichloroethene | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Trichloroethene | 1.0 | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Trichlorofluoromethane | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Vinyl chloride | ND | 0.50 | µg/L | 1 | 7/22/2011 01:32 PM | |
| Surr: 1,2-Dichloroethane-d4 | 90.4 | 70-130 | %REC | 1 | 7/22/2011 01:32 PM | |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | %REC | 1 | 7/22/2011 01:32 PM | |
| Surr: Dibromofluoromethane | 100 | 70-130 | %REC | 1 | 7/22/2011 01:32 PM | |
| Surr: Toluene-d8 | 101 | 70-130 | %REC | 1 | 7/22/2011 01:32 PM | |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 27-Jul-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-124-GW |
| Lab Order: 119042 | Collection Date: 7/19/2011 2:05:00 PM |
| Project: Metro Westside Extension, 4951101561 | Matrix: GROUNDWATER |
| Lab ID: 119042-007B | |

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

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

| | | | | | |
|--------------------------------|--------------------|-----------|--------------|---|--------------------|
| RunID: GC19_110721A | QC Batch: M11VW142 | PrepDate: | Analyst: DDL | | |
| GRO | ND | 0.20 | mg/L | 1 | 7/21/2011 02:49 PM |
| Surr: Bromofluorobenzene (FID) | 90.8 | 70-130 | %REC | 1 | 7/21/2011 02:49 PM |

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



*Advanced Technology
 Laboratories*

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

Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 27-Jul-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-124-GW |
| Lab Order: 119042 | Collection Date: 7/19/2011 2:05:00 PM |
| Project: Metro Westside Extension, 4951101561 | Matrix: GROUNDWATER |
| Lab ID: 119042-007C | |

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

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

| | | EPA 3510C | | EPA 8015B(M) | | |
|---------------------|-----------------|-----------|--|---------------------|--------------|--------------------|
| RunID: GC16_110726B | QC Batch: 74531 | | | PrepDate: 7/26/2011 | Analyst: CBR | |
| DRO | 0.36 | 0.29 | | mg/L | 1 | 7/26/2011 12:47 PM |
| ORO | ND | 0.29 | | mg/L | 1 | 7/26/2011 12:47 PM |
| Surr: p-Terphenyl | 67.3 | 36-126 | | %REC | 1 | 7/26/2011 12:47 PM |

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



*Advanced Technology
Laboratories*

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

CLIENT: Mactec
Work Order: 119042
Project: Metro Westside Extension, 4951101561

ANALYTICAL QC SUMMARY REPORT

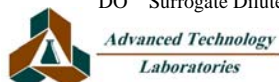
TestCode: 6010_S

| Sample ID: MB-74487 | SampType: MBLK | TestCode: 6010_S | Units: mg/Kg | Prep Date: 7/22/2011 | RunNo: 135281 | | | | | | |
|----------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBS | Batch ID: 74487 | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 7/22/2011 | SeqNo: 2214700 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Antimony | ND | 2.0 | | | | | | | | | |
| Arsenic | ND | 1.0 | | | | | | | | | |
| Barium | ND | 1.0 | | | | | | | | | |
| Beryllium | ND | 1.0 | | | | | | | | | |
| Cadmium | ND | 1.0 | | | | | | | | | |
| Chromium | ND | 1.0 | | | | | | | | | |
| Cobalt | ND | 1.0 | | | | | | | | | |
| Copper | ND | 2.0 | | | | | | | | | |
| Lead | ND | 1.0 | | | | | | | | | |
| Molybdenum | ND | 1.0 | | | | | | | | | |
| Nickel | ND | 1.0 | | | | | | | | | |
| Selenium | ND | 1.0 | | | | | | | | | |
| Silver | ND | 1.0 | | | | | | | | | |
| Thallium | ND | 1.0 | | | | | | | | | |
| Vanadium | ND | 1.0 | | | | | | | | | |
| Zinc | ND | 1.0 | | | | | | | | | |

| Sample ID: LCS-74487 | SampType: LCS | TestCode: 6010_S | Units: mg/Kg | Prep Date: 7/22/2011 | RunNo: 135281 | | | | | | |
|-----------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 74487 | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 7/22/2011 | SeqNo: 2214701 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Antimony | 46.758 | 2.0 | 50.00 | 0 | 93.5 | 80 | 120 | | | | |
| Arsenic | 44.962 | 1.0 | 50.00 | 0 | 89.9 | 80 | 120 | | | | |
| Barium | 48.827 | 1.0 | 50.00 | 0 | 97.7 | 80 | 120 | | | | |
| Beryllium | 47.862 | 1.0 | 50.00 | 0 | 95.7 | 80 | 120 | | | | |
| Cadmium | 44.984 | 1.0 | 50.00 | 0 | 90.0 | 80 | 120 | | | | |
| Chromium | 44.091 | 1.0 | 50.00 | 0 | 88.2 | 80 | 120 | | | | |
| Cobalt | 47.172 | 1.0 | 50.00 | 0 | 94.3 | 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: 119042
Project: Metro Westside Extension, 4951101561

ANALYTICAL QC SUMMARY REPORT

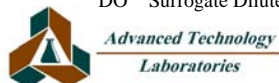
TestCode: 6010_S

| Sample ID: LCS-74487 | | SampType: LCS | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 7/22/2011 | | RunNo: 135281 | | |
|-----------------------------|--------|------------------------|-----------|------------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: LCSS | | Batch ID: 74487 | | TestNo: EPA 6010B EPA 3050B | | | | Analysis Date: 7/22/2011 | | SeqNo: 2214701 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Copper | 49.154 | 2.0 | 50.00 | 0 | 98.3 | 80 | 120 | | | | | |
| Lead | 45.422 | 1.0 | 50.00 | 0 | 90.8 | 80 | 120 | | | | | |
| Molybdenum | 48.596 | 1.0 | 50.00 | 0 | 97.2 | 80 | 120 | | | | | |
| Nickel | 45.592 | 1.0 | 50.00 | 0 | 91.2 | 80 | 120 | | | | | |
| Selenium | 42.795 | 1.0 | 50.00 | 0 | 85.6 | 80 | 120 | | | | | |
| Silver | 49.157 | 1.0 | 50.00 | 0 | 98.3 | 80 | 120 | | | | | |
| Thallium | 45.259 | 1.0 | 50.00 | 0 | 90.5 | 80 | 120 | | | | | |
| Vanadium | 46.726 | 1.0 | 50.00 | 0 | 93.5 | 80 | 120 | | | | | |
| Zinc | 45.678 | 1.0 | 50.00 | 0 | 91.4 | 80 | 120 | | | | | |

| Sample ID: 119042-003A-MS | | SampType: MS | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 7/22/2011 | | RunNo: 135281 | | |
|----------------------------------|---------|------------------------|-----------|------------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: E-124-60' | | Batch ID: 74487 | | TestNo: EPA 6010B EPA 3050B | | | | Analysis Date: 7/22/2011 | | SeqNo: 2214711 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Antimony | 83.260 | 2.0 | 125.0 | 0.8865 | 65.9 | 32 | 105 | | | | | |
| Arsenic | 98.044 | 1.0 | 125.0 | 4.075 | 75.2 | 49 | 106 | | | | | |
| Barium | 220.494 | 1.0 | 125.0 | 126.2 | 75.4 | 31 | 133 | | | | | |
| Beryllium | 97.653 | 1.0 | 125.0 | 0 | 78.1 | 56 | 106 | | | | | |
| Cadmium | 90.441 | 1.0 | 125.0 | 0.8168 | 71.7 | 51 | 103 | | | | | |
| Chromium | 131.512 | 1.0 | 125.0 | 43.47 | 70.4 | 45 | 114 | | | | | |
| Cobalt | 112.520 | 1.0 | 125.0 | 16.29 | 77.0 | 52 | 106 | | | | | |
| Copper | 131.096 | 2.0 | 125.0 | 18.17 | 90.3 | 54 | 125 | | | | | |
| Lead | 94.118 | 1.0 | 125.0 | 4.182 | 71.9 | 34 | 126 | | | | | |
| Molybdenum | 94.629 | 1.0 | 125.0 | 0 | 75.7 | 54 | 106 | | | | | |
| Nickel | 115.383 | 1.0 | 125.0 | 23.45 | 73.6 | 45 | 111 | | | | | |
| Selenium | 88.166 | 1.0 | 125.0 | 0 | 70.5 | 47 | 104 | | | | | |
| Silver | 106.177 | 1.0 | 125.0 | 0 | 84.9 | 56 | 112 | | | | | |
| Thallium | 79.456 | 1.0 | 125.0 | 0 | 63.6 | 46 | 101 | | | | | |
| Vanadium | 165.147 | 1.0 | 125.0 | 73.32 | 73.5 | 54 | 114 | | | | | |
| Zinc | 146.694 | 1.0 | 125.0 | 59.97 | 69.4 | 28 | 125 | | | | | |

Qualifiers:

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



CLIENT: Mactec
Work Order: 119042
Project: Metro Westside Extension, 4951101561

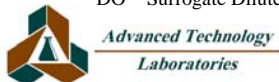
ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

| Sample ID: 119042-003A-MSD | SampType: MSD | TestCode: 6010_S | Units: mg/Kg | Prep Date: 7/22/2011 | RunNo: 135281 | | | | | | |
|-----------------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|-------|----------|------|
| Client ID: E-124-60' | Batch ID: 74487 | TestNo: EPA 6010B | EPA 3050B | Analysis Date: 7/22/2011 | SeqNo: 2214712 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Antimony | 84.038 | 2.0 | 125.0 | 0.8865 | 66.5 | 32 | 105 | 83.26 | 0.931 | 20 | |
| Arsenic | 98.425 | 1.0 | 125.0 | 4.075 | 75.5 | 49 | 106 | 98.04 | 0.388 | 20 | |
| Barium | 225.586 | 1.0 | 125.0 | 126.2 | 79.5 | 31 | 133 | 220.5 | 2.28 | 20 | |
| Beryllium | 99.773 | 1.0 | 125.0 | 0 | 79.8 | 56 | 106 | 97.65 | 2.15 | 20 | |
| Cadmium | 91.353 | 1.0 | 125.0 | 0.8168 | 72.4 | 51 | 103 | 90.44 | 1.00 | 20 | |
| Chromium | 133.464 | 1.0 | 125.0 | 43.47 | 72.0 | 45 | 114 | 131.5 | 1.47 | 20 | |
| Cobalt | 113.317 | 1.0 | 125.0 | 16.29 | 77.6 | 52 | 106 | 112.5 | 0.705 | 20 | |
| Copper | 132.463 | 2.0 | 125.0 | 18.17 | 91.4 | 54 | 125 | 131.1 | 1.04 | 20 | |
| Lead | 94.664 | 1.0 | 125.0 | 4.182 | 72.4 | 34 | 126 | 94.12 | 0.579 | 20 | |
| Molybdenum | 95.098 | 1.0 | 125.0 | 0 | 76.1 | 54 | 106 | 94.63 | 0.494 | 20 | |
| Nickel | 116.718 | 1.0 | 125.0 | 23.45 | 74.6 | 45 | 111 | 115.4 | 1.15 | 20 | |
| Selenium | 87.424 | 1.0 | 125.0 | 0 | 69.9 | 47 | 104 | 88.17 | 0.845 | 20 | |
| Silver | 107.940 | 1.0 | 125.0 | 0 | 86.4 | 56 | 112 | 106.2 | 1.65 | 20 | |
| Thallium | 79.968 | 1.0 | 125.0 | 0 | 64.0 | 46 | 101 | 79.46 | 0.642 | 20 | |
| Vanadium | 170.174 | 1.0 | 125.0 | 73.32 | 77.5 | 54 | 114 | 165.1 | 3.00 | 20 | |
| Zinc | 152.091 | 1.0 | 125.0 | 59.97 | 73.7 | 28 | 125 | 146.7 | 3.61 | 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 | |



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

CLIENT: Mactec
Work Order: 119042
Project: Metro Westside Extension, 4951101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-74448 | SampType: MBLK | TestCode: 7471_S | Units: mg/Kg | Prep Date: 7/21/2011 | RunNo: 135232 | | | | | | |
| Client ID: PBS | Batch ID: 74448 | TestNo: EPA 7471A | | Analysis Date: 7/21/2011 | SeqNo: 2213722 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury ND 0.10

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-74448 | SampType: LCS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 7/21/2011 | RunNo: 135232 | | | | | | |
| Client ID: LCSS | Batch ID: 74448 | TestNo: EPA 7471A | | Analysis Date: 7/21/2011 | SeqNo: 2213723 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.893 0.10 0.8300 0 108 80 120

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119005-001A-MS | SampType: MS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 7/21/2011 | RunNo: 135232 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: 74448 | TestNo: EPA 7471A | | Analysis Date: 7/21/2011 | SeqNo: 2213724 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

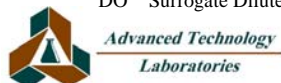
Mercury 1.001 0.10 0.8300 0.09211 109 70 130

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119005-001A-MSD | SampType: MSD | TestCode: 7471_S | Units: mg/Kg | Prep Date: 7/21/2011 | RunNo: 135232 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: 74448 | TestNo: EPA 7471A | | Analysis Date: 7/21/2011 | SeqNo: 2213725 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.996 0.10 0.8300 0.09211 109 70 130 1.001 0.421 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: 119042
Project: Metro Westside Extension, 4951101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DM

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-74531 | SampType: MBLK | TestCode: 8015_W_DM | Units: mg/L | Prep Date: 7/26/2011 | RunNo: 135340 | | | | | | |
| Client ID: PBW | Batch ID: 74531 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 7/26/2011 | SeqNo: 2215981 | | | | | | |
| 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 | 0.043 | | 0.08000 | | 53.9 | 36 | 126 | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-74531 | SampType: LCS | TestCode: 8015_W_DM | Units: mg/L | Prep Date: 7/26/2011 | RunNo: 135340 | | | | | | |
| Client ID: LCSW | Batch ID: 74531 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 7/26/2011 | SeqNo: 2215982 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|-------|------|---------|---|------|----|-----|--|--|--|--|
| DRO | 0.532 | 0.20 | 1.000 | 0 | 53.2 | 52 | 128 | | | | |
| Surr: p-Terphenyl | 0.050 | | 0.08000 | | 62.6 | 36 | 126 | | | | |

| | | | | | | | | | | | |
|------------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-74531MS | SampType: MS | TestCode: 8015_W_DM | Units: mg/L | Prep Date: 7/26/2011 | RunNo: 135340 | | | | | | |
| Client ID: ZZZZZ | Batch ID: 74531 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 7/26/2011 | SeqNo: 2215983 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

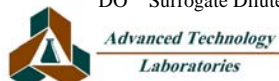
| | | | | | | | | | | | |
|-------------------|-------|------|---------|---|------|----|-----|--|--|--|--|
| DRO | 0.593 | 0.20 | 1.000 | 0 | 59.3 | 52 | 128 | | | | |
| Surr: p-Terphenyl | 0.052 | | 0.08000 | | 65.6 | 36 | 126 | | | | |

| | | | | | | | | | | | |
|-------------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-74531MSD | SampType: MSD | TestCode: 8015_W_DM | Units: mg/L | Prep Date: 7/26/2011 | RunNo: 135340 | | | | | | |
| Client ID: ZZZZZ | Batch ID: 74531 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 7/26/2011 | SeqNo: 2215999 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|-------|------|---------|---|------|----|-----|--------|------|----|--|
| DRO | 0.629 | 0.20 | 1.000 | 0 | 62.9 | 52 | 128 | 0.5926 | 5.89 | 20 | |
| Surr: p-Terphenyl | 0.045 | | 0.08000 | | 56.0 | 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: 119042
Project: Metro Westside Extension, 4951101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_G PRES

| | | | | | | | | | | | |
|--------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: M110721LCS2 | SampType: LCS | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 135229 | | | | | | |
| Client ID: LCSW | Batch ID: M11VW142 | TestNo: EPA 8015B(M) | | Analysis Date: 7/21/2011 | SeqNo: 2213681 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.089 | 0.20 | 1.000 | 0 | 109 | 70 | 130 | | | | |
| Surr: Bromofluorobenzene (FID) | 90.531 | | 100.0 | | 90.5 | 70 | 130 | | | | |

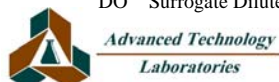
| | | | | | | | | | | | |
|--------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: M110721MB1MS | SampType: MS | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 135229 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: M11VW142 | TestNo: EPA 8015B(M) | | Analysis Date: 7/21/2011 | SeqNo: 2213682 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.115 | 0.20 | 1.000 | 0 | 112 | 70 | 130 | | | | |
| Surr: Bromofluorobenzene (FID) | 89.651 | | 100.0 | | 89.7 | 70 | 130 | | | | |

| | | | | | | | | | | | |
|---------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|-------|----------|------|
| Sample ID: M110721MB1MSD | SampType: MSD | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 135229 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: M11VW142 | TestNo: EPA 8015B(M) | | Analysis Date: 7/21/2011 | SeqNo: 2213683 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.123 | 0.20 | 1.000 | 0 | 112 | 70 | 130 | 1.115 | 0.715 | 20 | |
| Surr: Bromofluorobenzene (FID) | 91.368 | | 100.0 | | 91.4 | 70 | 130 | | 0 | 0 | |

| | | | | | | | | | | | |
|--------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: M110721MB1 | SampType: MBLK | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 135229 | | | | | | |
| Client ID: PBW | Batch ID: M11VW142 | TestNo: EPA 8015B(M) | | Analysis Date: 7/21/2011 | SeqNo: 2213684 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | ND | 0.20 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 87.509 | | 100.0 | | 87.5 | 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: 119042
Project: Metro Westside Extension, 4951101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

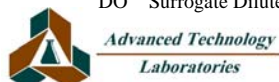
| Sample ID: K110721LCS1 | | SampType: LCS | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135240 | |
|-------------------------------|---------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: LCSS | | Batch ID: K11VS194 | | TestNo: EPA 8260B | | Analysis Date: 7/21/2011 | | | | SeqNo: 2214303 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 48.840 | 5.0 | 50.00 | 0 | 97.7 | 70 | 130 | | | | |
| Benzene | 104.910 | 5.0 | 100.0 | 0 | 105 | 70 | 130 | | | | |
| Chlorobenzene | 55.460 | 5.0 | 50.00 | 0 | 111 | 70 | 130 | | | | |
| MTBE | 58.230 | 5.0 | 50.00 | 0 | 116 | 70 | 130 | | | | |
| Toluene | 104.470 | 5.0 | 100.0 | 0 | 104 | 70 | 130 | | | | |
| Trichloroethene | 54.430 | 5.0 | 50.00 | 0 | 109 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 52.870 | | 50.00 | | 106 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 47.780 | | 50.00 | | 95.6 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 52.300 | | 50.00 | | 105 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 51.210 | | 50.00 | | 102 | 72 | 123 | | | | |

| Sample ID: K110721MB1MS | | SampType: MS | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135240 | |
|--------------------------------|---------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: K11VS194 | | TestNo: EPA 8260B | | Analysis Date: 7/21/2011 | | | | SeqNo: 2214304 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 50.660 | 5.0 | 50.00 | 0 | 101 | 70 | 130 | | | | |
| Benzene | 104.960 | 5.0 | 100.0 | 0 | 105 | 70 | 130 | | | | |
| Chlorobenzene | 55.490 | 5.0 | 50.00 | 0 | 111 | 70 | 130 | | | | |
| Toluene | 105.390 | 5.0 | 100.0 | 0 | 105 | 70 | 130 | | | | |
| Trichloroethene | 53.610 | 5.0 | 50.00 | 0 | 107 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 52.340 | | 50.00 | | 105 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 47.460 | | 50.00 | | 94.9 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 53.190 | | 50.00 | | 106 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 51.000 | | 50.00 | | 102 | 72 | 123 | | | | |

| Sample ID: K110721MB1MSD | | SampType: MSD | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135240 | |
|---------------------------------|--------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: K11VS194 | | TestNo: EPA 8260B | | Analysis Date: 7/21/2011 | | | | SeqNo: 2214305 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 46.820 | 5.0 | 50.00 | 0 | 93.6 | 70 | 130 | 50.66 | 7.88 | 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: 119042
Project: Metro Westside Extension, 4951101561

ANALYTICAL QC SUMMARY REPORT

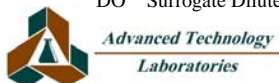
TestCode: 8260_S_5035

| Sample ID: K110721MB1MSD | SampType: MSD | TestCode: 8260_S_5035 | Units: µg/Kg | Prep Date: | RunNo: 135240 | | | | | | |
|---------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: ZZZZZZ | Batch ID: K11VS194 | TestNo: EPA 8260B | Analysis Date: 7/21/2011 | SeqNo: 2214305 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 97.070 | 5.0 | 100.0 | 0 | 97.1 | 70 | 130 | 105.0 | 7.81 | 20 | |
| Chlorobenzene | 51.410 | 5.0 | 50.00 | 0 | 103 | 70 | 130 | 55.49 | 7.63 | 20 | |
| Toluene | 97.270 | 5.0 | 100.0 | 0 | 97.3 | 70 | 130 | 105.4 | 8.01 | 20 | |
| Trichloroethene | 50.090 | 5.0 | 50.00 | 0 | 100 | 70 | 130 | 53.61 | 6.79 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 49.240 | | 50.00 | | 98.5 | 65 | 141 | | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 45.060 | | 50.00 | | 90.1 | 57 | 134 | | 0 | 0 | |
| Surr: Dibromofluoromethane | 48.920 | | 50.00 | | 97.8 | 70 | 128 | | 0 | 0 | |
| Surr: Toluene-d8 | 48.020 | | 50.00 | | 96.0 | 72 | 123 | | 0 | 0 | |

| Sample ID: K110721MB1 | SampType: MBLK | TestCode: 8260_S_5035 | Units: µg/Kg | Prep Date: | RunNo: 135240 | | | | | | |
|------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBS | Batch ID: K11VS194 | TestNo: EPA 8260B | Analysis Date: 7/21/2011 | SeqNo: 2214320 | | | | | | | |
| 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 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | | | | | | | | | |

Qualifiers:

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



CLIENT: Mactec
Work Order: 119042
Project: Metro Westside Extension, 4951101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| | | | | | | | | | | | |
|------------------------------|---------------------------|------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: K110721MB1 | SampType: MBLK | TestCode: 8260_S_5035 | Units: µg/Kg | Prep Date: | RunNo: 135240 | | | | | | |
| Client ID: PBS | Batch ID: K11VS194 | TestNo: EPA 8260B | | Analysis Date: 7/21/2011 | SeqNo: 2214320 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------|----|-----|--|--|--|--|--|--|--|--|--|
| 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 | | | | | | | | | |
| Dibromochloromethane | ND | 5.0 | | | | | | | | | |
| Dibromomethane | ND | 5.0 | | | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | | | | | | | | | |
| Ethylbenzene | ND | 5.0 | | | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | | | | | | | | | |
| Isopropylbenzene | ND | 5.0 | | | | | | | | | |
| m,p-Xylene | ND | 10 | | | | | | | | | |
| Methylene chloride | ND | 5.0 | | | | | | | | | |
| n-Butylbenzene | ND | 5.0 | | | | | | | | | |
| n-Propylbenzene | ND | 5.0 | | | | | | | | | |
| Naphthalene | 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 | |



*Advanced Technology
Laboratories*

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

CLIENT: Mactec
Work Order: 119042
Project: Metro Westside Extension, 4951101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| Sample ID: K110721MB1 | SampType: MBLK | TestCode: 8260_S_5035 | Units: µg/Kg | Prep Date: | RunNo: 135240 | | | | | | |
|------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBS | Batch ID: K11VS194 | TestNo: EPA 8260B | Analysis Date: 7/21/2011 | SeqNo: 2214320 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| o-Xylene | ND | 5.0 | | | | | | | | | |
| sec-Butylbenzene | ND | 5.0 | | | | | | | | | |
| Styrene | ND | 5.0 | | | | | | | | | |
| 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 | 53.070 | | 50.00 | | 106 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 46.320 | | 50.00 | | 92.6 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 52.110 | | 50.00 | | 104 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 50.150 | | 50.00 | | 100 | 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 | |



*Advanced Technology
Laboratories*

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

CLIENT: Mactec
Work Order: 119042
Project: Metro Westside Extension, 4951101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

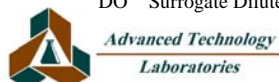
| Sample ID: A110722LCS1 | | SampType: LCS | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 135290 | |
|-------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: LCSW | | Batch ID: A11VW124 | | TestNo: EPA 8260B | | Analysis Date: 7/22/2011 | | | | SeqNo: 2214810 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 19.150 | 0.50 | 20.00 | 0 | 95.8 | 70 | 130 | | | | |
| Benzene | 40.180 | 0.50 | 40.00 | 0 | 100 | 70 | 130 | | | | |
| Chlorobenzene | 20.570 | 0.50 | 20.00 | 0 | 103 | 70 | 130 | | | | |
| MTBE | 21.770 | 0.50 | 20.00 | 0 | 109 | 70 | 130 | | | | |
| Toluene | 40.690 | 0.50 | 40.00 | 0 | 102 | 70 | 130 | | | | |
| Trichloroethene | 19.180 | 0.50 | 20.00 | 0 | 95.9 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 22.710 | | 25.00 | | 90.8 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 25.450 | | 25.00 | | 102 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 24.950 | | 25.00 | | 99.8 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 25.200 | | 25.00 | | 101 | 70 | 130 | | | | |

| Sample ID: A110722MB3MS | | SampType: MS | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 135290 | |
|--------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: A11VW124 | | TestNo: EPA 8260B | | Analysis Date: 7/22/2011 | | | | SeqNo: 2214811 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 20.590 | 0.50 | 20.00 | 0 | 103 | 70 | 130 | | | | |
| Benzene | 41.310 | 0.50 | 40.00 | 0 | 103 | 70 | 130 | | | | |
| Chlorobenzene | 20.970 | 0.50 | 20.00 | 0 | 105 | 70 | 130 | | | | |
| Toluene | 42.150 | 0.50 | 40.00 | 0 | 105 | 70 | 130 | | | | |
| Trichloroethene | 20.170 | 0.50 | 20.00 | 0 | 101 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 22.670 | | 25.00 | | 90.7 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 25.300 | | 25.00 | | 101 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 24.830 | | 25.00 | | 99.3 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 25.030 | | 25.00 | | 100 | 70 | 130 | | | | |

| Sample ID: A110722MB3MSD | | SampType: MSD | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 135290 | |
|---------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: A11VW124 | | TestNo: EPA 8260B | | Analysis Date: 7/22/2011 | | | | SeqNo: 2214812 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 19.260 | 0.50 | 20.00 | 0 | 96.3 | 70 | 130 | 20.59 | 6.68 | 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: 119042
Project: Metro Westside Extension, 4951101561

ANALYTICAL QC SUMMARY REPORT

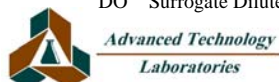
TestCode: 8260_WP_LL

| Sample ID: A110722MB3MSD | SampType: MSD | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 135290 | | | | | | |
|---------------------------------|---------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|-------|----------|------|
| Client ID: ZZZZZZ | Batch ID: A11VW124 | TestNo: EPA 8260B | Analysis Date: 7/22/2011 | SeqNo: 2214812 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene | 40.580 | 0.50 | 40.00 | 0 | 101 | 70 | 130 | 41.31 | 1.78 | 20 | |
| Chlorobenzene | 20.770 | 0.50 | 20.00 | 0 | 104 | 70 | 130 | 20.97 | 0.958 | 20 | |
| Toluene | 41.150 | 0.50 | 40.00 | 0 | 103 | 70 | 130 | 42.15 | 2.40 | 20 | |
| Trichloroethene | 19.750 | 0.50 | 20.00 | 0 | 98.8 | 70 | 130 | 20.17 | 2.10 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 22.100 | | 25.00 | | 88.4 | 70 | 130 | | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 25.390 | | 25.00 | | 102 | 70 | 130 | | 0 | 0 | |
| Surr: Dibromofluoromethane | 24.860 | | 25.00 | | 99.4 | 70 | 130 | | 0 | 0 | |
| Surr: Toluene-d8 | 24.900 | | 25.00 | | 99.6 | 70 | 130 | | 0 | 0 | |

| Sample ID: A110722MB3 | SampType: MBLK | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 135290 | | | | | | |
|------------------------------|---------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBW | Batch ID: A11VW124 | TestNo: EPA 8260B | Analysis Date: 7/22/2011 | SeqNo: 2214813 | | | | | | | |
| 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 | | | | | | | | | |
| 1,1,1,2-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 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | 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: 119042
Project: Metro Westside Extension, 4951101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| | | | | | |
|------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|
| Sample ID: A110722MB3 | SampType: MBLK | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 135290 |
| Client ID: PBW | Batch ID: A11VW124 | TestNo: EPA 8260B | | Analysis Date: 7/22/2011 | SeqNo: 2214813 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------------|--------|------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 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 | | | | | | | | | |
| Dibromochloromethane | ND | 0.50 | | | | | | | | | |
| Dibromomethane | ND | 0.50 | | | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.50 | | | | | | | | | |
| Isopropylbenzene | ND | 0.50 | | | | | | | | | |
| m,p-Xylene | ND | 1.0 | | | | | | | | | |
| Methylene chloride | ND | 1.0 | | | | | | | | | |
| n-Butylbenzene | ND | 0.50 | | | | | | | | | |
| n-Propylbenzene | ND | 0.50 | | | | | | | | | |
| Naphthalene | 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 | |



*Advanced Technology
Laboratories*

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

CLIENT: Mactec
Work Order: 119042
Project: Metro Westside Extension, 4951101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| Sample ID: A110722MB3 | SampType: MBLK | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 135290 | | | | | | |
|------------------------------|---------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBW | Batch ID: A11VW124 | TestNo: EPA 8260B | Analysis Date: 7/22/2011 | SeqNo: 2214813 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| o-Xylene | ND | 0.50 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | | | | | | | | | |
| Styrene | ND | 0.50 | | | | | | | | | |
| 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 | 22.020 | | 25.00 | | 88.1 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 24.420 | | 25.00 | | 97.7 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 24.990 | | 25.00 | | 100 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 25.030 | | 25.00 | | 100 | 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

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: **MACIEC**
 Attn: **Matt Freychineaud**
 Project Name: **Metro Westside Extension**
 Address: **5628 E. Stawson Ave** City: **LA** State: **CA** Zip Code: **90040**
 Project #: **4951101561** Sampler: **Paul Kane** (Signature)
 Relinquished by: (Signature and Printed Name) **Paul Kane** Date: **7/20/11** Time: **0700**
 Relinquished by: (Signature and Printed Name) **Matt Freychineaud** Date: **7/20/11** Time: **1130**
 Relinquished by: (Signature and Printed Name) **Matt Freychineaud** Date: **7/20/11** Time: **1350**
 I hereby authorize ATL to perform the work indicated below.
 Project Mgr /Submitter: **Matt Freychineaud**
 Print Name: **Matt Freychineaud** Date: **7/20/11**
 Signature: **Matt Freychineaud**

Bill To:
 Attn:
 Co:
 Addr:
 City: State: Zip:
 Circle or Add Analysis(es) Requested
 8091A (Pesticides) _____
 8092 (PCB) _____
 8260B (Wattles) _____
 8270C (BNA) _____
 8010B (Total Metal) _____
 8095B (BNA) _____
 8095A (BNA) _____
 TITLE 22 / CAM 17 (6010 / 7000) _____
 8095B (BNA) _____
 8095A (BNA) _____
 8010B (Total Metal) _____
 8095B (BNA) _____
 8095A (BNA) _____
 8010B (Total Metal) _____
 8095B (BNA) _____
 8095A (BNA) _____
 8010B (Total Metal) _____

Special Instructions/Comments: _____

| LAB USE ONLY: Batch #: | LAB USE ONLY: Lab No.: | Sample Description | Sample I.D. / Location | Date | Time |
|---------------------------|---------------------------|--------------------|------------------------|---------|------|
| 119042 - 601 | | | E-124-50' | 7/19/11 | 1230 |
| | | | E-124-55' | | 1249 |
| | | | E-124-60' | | 1255 |
| | | | E-124-65' | | 1315 |
| | | | E-124-70' | | 1330 |
| | | | E-124-75' | | 1345 |
| | | | E-124-GW | | 1405 |

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)

| SPECIFY APPROPRIATE MATRIX | Container(s) | TAT # | Type | Q A / Q C | | | REMARKS |
|----------------------------|--------------|-------|------|-----------|----|-------|---------|
| | | | | RTNE | CT | Legal | |
| SEDIMENT | | | | | | | |
| SOIL | | | | | | | |
| DRINKING WATER | | | | | | | |
| GROUND WATER | | | | | | | |
| WASTEWATER | | | | | | | |
| STORMWATER | | | | | | | |
| AQUEOUS | | | | | | | |
| | | 1 | T | | | | Hold |
| | | 7 | V | | | | |
| | | 1 | T | | | | |
| | | 7 | V | | | | |
| | | 7 | V | | | | |
| | | 1 | T | | | | Hold |
| | | 6 | V | | | | |

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

Emergency Next workday B= C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

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

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

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

Figure I-1.864

August 18, 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.: 119318

RE: METRO WESTSIDE EXTENSION, 4953-10-1

Attention: Matt Fraychineaud

Enclosed are the results for sample(s) received on August 09, 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.



CLIENT: Mactec
Project: METRO WESTSIDE EXTENSION, 4953-10-1
Lab Order: 119318

CASE NARRATIVE

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

Analytical Comments for EPA 7471A

Samples 119310-001A-MS and 119310-001A-MSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

CLIENT: Mactec **Client Sample ID:** E-125-60
Lab Order: 119318 **Collection Date:** 8/5/2011 12:40:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119318-001A

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS5_110812A | QC Batch: | T11VS145 | PrepDate: | 8/5/2011 | Analyst: | DDL |
|-----------------------------|-------------|-----------|----------|-----------|----------|--------------------|-----|
| 1,1,1,2-Tetrachloroethane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,1,1-Trichloroethane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,1,2,2-Tetrachloroethane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,1,2-Trichloroethane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,1-Dichloroethane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,1-Dichloroethene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,1-Dichloropropene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,2,3-Trichlorobenzene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,2,3-Trichloropropane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,2,4-Trichlorobenzene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,2,4-Trimethylbenzene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,2-Dibromo-3-chloropropane | ND | 7.4 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,2-Dibromoethane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,2-Dichlorobenzene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,2-Dichloroethane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,2-Dichloropropane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,3,5-Trimethylbenzene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,3-Dichlorobenzene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,3-Dichloropropane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 1,4-Dichlorobenzene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 2,2-Dichloropropane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 2-Chlorotoluene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 4-Chlorotoluene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| 4-Isopropyltoluene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| Benzene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| Bromobenzene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| Bromodichloromethane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| Bromoform | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| Bromomethane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| Carbon tetrachloride | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| Chlorobenzene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| Chloroethane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| Chloroform | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| Chloromethane | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |
| cis-1,2-Dichloroethene | ND | 3.7 | µg/Kg | 1 | | 8/12/2011 03:18 PM | |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

CLIENT: Mactec **Client Sample ID:** E-125-60
Lab Order: 119318 **Collection Date:** 8/5/2011 12:40:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119318-001A

Analyses Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS5_110812A | QC Batch: | T11VS145 | PrepDate: | 8/5/2011 | Analyst: | DDL |
|-----------------------------|-------------|-----------|----------|-----------|----------|----------|--------------------|
| cis-1,3-Dichloropropene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Di-isopropyl ether | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Dibromochloromethane | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Dibromomethane | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Dichlorodifluoromethane | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Ethyl Tert-butyl ether | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Ethylbenzene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Hexachlorobutadiene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Isopropylbenzene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| m,p-Xylene | ND | 7.4 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Methylene chloride | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| MTBE | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| n-Butylbenzene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| n-Propylbenzene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Naphthalene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| o-Xylene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| sec-Butylbenzene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Styrene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Tert-amyl methyl ether | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Tert-Butanol | ND | 74 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| tert-Butylbenzene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Tetrachloroethene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Toluene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| trans-1,2-Dichloroethene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Trichloroethene | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Trichlorofluoromethane | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Vinyl chloride | ND | 3.7 | µg/Kg | 1 | | | 8/12/2011 03:18 PM |
| Surr: 1,2-Dichloroethane-d4 | 94.4 | 65-141 | %REC | 1 | | | 8/12/2011 03:18 PM |
| Surr: 4-Bromofluorobenzene | 92.0 | 57-134 | %REC | 1 | | | 8/12/2011 03:18 PM |
| Surr: Dibromofluoromethane | 95.9 | 70-128 | %REC | 1 | | | 8/12/2011 03:18 PM |
| Surr: Toluene-d8 | 94.5 | 72-123 | %REC | 1 | | | 8/12/2011 03:18 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

| | | | |
|-------------------|-----------------------------------|--------------------------|----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-125-60 |
| Lab Order: | 119318 | Collection Date: | 8/5/2011 12:40:00 PM |
| Project: | METRO WESTSIDE EXTENSION, 4953-10 | Matrix: | SOIL |
| Lab ID: | 119318-001D | | |

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

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

| | | | | | |
|--------------------------------|--------------------|--------------------|-------------|---|--------------------|
| RunID: GC2_110812A | QC Batch: E11VS297 | PrepDate: 8/5/2011 | Analyst: TP | | |
| GRO | ND | 0.75 | mg/Kg | 1 | 8/12/2011 02:08 PM |
| Surr: Bromofluorobenzene (FID) | 103 | 51-161 | %REC | 1 | 8/12/2011 02:08 PM |

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



*Advanced Technology
Laboratories*

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

| | | | |
|-------------------|-----------------------------------|--------------------------|----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-125-60 |
| Lab Order: | 119318 | Collection Date: | 8/5/2011 12:40:00 PM |
| Project: | METRO WESTSIDE EXTENSION, 4953-10 | Matrix: | SOIL |
| Lab ID: | 119318-001G | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|-----------------|--------|------|---------------------|----|--------------------|
| DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID | | | | | | |
| | LUFT | | | EPA 8015B(M) | | |
| RunID: GC16_110811A | QC Batch: 74856 | | | PrepDate: 8/11/2011 | | Analyst: CBR |
| DRO | ND | 10 | | mg/Kg | 1 | 8/11/2011 12:09 PM |
| ORO | ND | 10 | | mg/Kg | 1 | 8/11/2011 12:09 PM |
| Surr: p-Terphenyl | 93.4 | 63-152 | | %REC | 1 | 8/11/2011 12:09 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

CLIENT: Mactec **Client Sample ID:** E-125-70
Lab Order: 119318 **Collection Date:** 8/5/2011 1:35:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119318-002A

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS5_110812A | QC Batch: | T11VS145 | PrepDate: | 8/5/2011 | Analyst: | DDL |
|-----------------------------|-------------|-----------|----------|-----------|--------------------|----------|-----|
| 1,1,1,2-Tetrachloroethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,1,1-Trichloroethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,1,2,2-Tetrachloroethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,1,2-Trichloroethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,1-Dichloroethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,1-Dichloroethene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,1-Dichloropropene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,2,3-Trichlorobenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,2,3-Trichloropropane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,2,4-Trichlorobenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,2,4-Trimethylbenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,2-Dibromo-3-chloropropane | ND | 7.1 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,2-Dibromoethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,2-Dichlorobenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,2-Dichloroethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,2-Dichloropropane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,3,5-Trimethylbenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,3-Dichlorobenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,3-Dichloropropane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 1,4-Dichlorobenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 2,2-Dichloropropane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 2-Chlorotoluene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 4-Chlorotoluene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| 4-Isopropyltoluene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Benzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Bromobenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Bromodichloromethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Bromoform | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Bromomethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Carbon tetrachloride | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Chlorobenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Chloroethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Chloroform | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Chloromethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| cis-1,2-Dichloroethene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

CLIENT: Mactec **Client Sample ID:** E-125-70
Lab Order: 119318 **Collection Date:** 8/5/2011 1:35:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119318-002A

Analyses Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS5_110812A | QC Batch: | T11VS145 | PrepDate: | 8/5/2011 | Analyst: | DDL |
|-----------------------------|-------------|-----------|----------|-----------|--------------------|----------|-----|
| cis-1,3-Dichloropropene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Di-isopropyl ether | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Dibromochloromethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Dibromomethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Dichlorodifluoromethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Ethyl Tert-butyl ether | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Ethylbenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Hexachlorobutadiene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Isopropylbenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| m,p-Xylene | ND | 7.1 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Methylene chloride | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| MTBE | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| n-Butylbenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| n-Propylbenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Naphthalene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| o-Xylene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| sec-Butylbenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Styrene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Tert-amyl methyl ether | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Tert-Butanol | ND | 71 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| tert-Butylbenzene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Tetrachloroethene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Toluene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| trans-1,2-Dichloroethene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Trichloroethene | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Trichlorofluoromethane | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Vinyl chloride | ND | 3.6 | µg/Kg | 1 | 8/12/2011 03:36 PM | | |
| Surr: 1,2-Dichloroethane-d4 | 96.6 | 65-141 | %REC | 1 | 8/12/2011 03:36 PM | | |
| Surr: 4-Bromofluorobenzene | 94.1 | 57-134 | %REC | 1 | 8/12/2011 03:36 PM | | |
| Surr: Dibromofluoromethane | 96.2 | 70-128 | %REC | 1 | 8/12/2011 03:36 PM | | |
| Surr: Toluene-d8 | 104 | 72-123 | %REC | 1 | 8/12/2011 03:36 PM | | |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

| | | | |
|-------------------|-----------------------------------|--------------------------|---------------------|
| CLIENT: | Mactec | Client Sample ID: | E-125-70 |
| Lab Order: | 119318 | Collection Date: | 8/5/2011 1:35:00 PM |
| Project: | METRO WESTSIDE EXTENSION, 4953-10 | Matrix: | SOIL |
| Lab ID: | 119318-002D | | |

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

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

| | | | | | |
|--------------------------------|--------------------|--------------------|-------------|---|--------------------|
| RunID: GC2_110812A | QC Batch: E11VS297 | PrepDate: 8/5/2011 | Analyst: TP | | |
| GRO | ND | 0.72 | mg/Kg | 1 | 8/12/2011 02:24 PM |
| Surr: Bromofluorobenzene (FID) | 115 | 51-161 | %REC | 1 | 8/12/2011 02:24 PM |

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



*Advanced Technology
Laboratories*

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

| | | | |
|-------------------|-----------------------------------|--------------------------|---------------------|
| CLIENT: | Mactec | Client Sample ID: | E-125-70 |
| Lab Order: | 119318 | Collection Date: | 8/5/2011 1:35:00 PM |
| Project: | METRO WESTSIDE EXTENSION, 4953-10 | Matrix: | SOIL |
| Lab ID: | 119318-002G | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|-----------------|--------|------|---------------------|----|--------------------|
| DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID | | | | | | |
| | LUFT | | | EPA 8015B(M) | | |
| RunID: GC16_110811A | QC Batch: 74856 | | | PrepDate: 8/11/2011 | | Analyst: CBR |
| DRO | ND | 10 | | mg/Kg | 1 | 8/11/2011 12:19 PM |
| ORO | ND | 10 | | mg/Kg | 1 | 8/11/2011 12:19 PM |
| Surr: p-Terphenyl | 83.6 | 63-152 | | %REC | 1 | 8/11/2011 12:19 PM |

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



*Advanced Technology
Laboratories*

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

CLIENT: Mactec **Client Sample ID:** E-125-75
Lab Order: 119318 **Collection Date:** 8/5/2011 2:05:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119318-003A

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS5_110812A | QC Batch: | T11VS145 | PrepDate: | 8/5/2011 | Analyst: | DDL |
|-----------------------------|-------------|-----------|----------|-----------|----------|--------------------|-----|
| 1,1,1,2-Tetrachloroethane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,1,1-Trichloroethane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,1,2,2-Tetrachloroethane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,1,2-Trichloroethane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,1-Dichloroethane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,1-Dichloroethene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,1-Dichloropropene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,2,3-Trichlorobenzene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,2,3-Trichloropropane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,2,4-Trichlorobenzene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,2,4-Trimethylbenzene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,2-Dibromo-3-chloropropane | ND | 7.3 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,2-Dibromoethane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,2-Dichlorobenzene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,2-Dichloroethane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,2-Dichloropropane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,3,5-Trimethylbenzene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,3-Dichlorobenzene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,3-Dichloropropane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 1,4-Dichlorobenzene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 2,2-Dichloropropane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 2-Chlorotoluene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 4-Chlorotoluene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| 4-Isopropyltoluene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| Benzene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| Bromobenzene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| Bromodichloromethane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| Bromoform | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| Bromomethane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| Carbon tetrachloride | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| Chlorobenzene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| Chloroethane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| Chloroform | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| Chloromethane | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |
| cis-1,2-Dichloroethene | ND | 3.6 | µg/Kg | 1 | | 8/12/2011 03:55 PM | |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

CLIENT: Mactec **Client Sample ID:** E-125-75
Lab Order: 119318 **Collection Date:** 8/5/2011 2:05:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119318-003A

Analyses Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS5_110812A | QC Batch: | T11VS145 | PrepDate: | 8/5/2011 | Analyst: | DDL |
|-----------------------------|-------------|-----------|----------|-----------|----------|----------|--------------------|
| cis-1,3-Dichloropropene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Di-isopropyl ether | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Dibromochloromethane | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Dibromomethane | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Dichlorodifluoromethane | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Ethyl Tert-butyl ether | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Ethylbenzene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Hexachlorobutadiene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Isopropylbenzene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| m,p-Xylene | ND | 7.3 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Methylene chloride | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| MTBE | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| n-Butylbenzene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| n-Propylbenzene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Naphthalene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| o-Xylene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| sec-Butylbenzene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Styrene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Tert-amyl methyl ether | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Tert-Butanol | ND | 73 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| tert-Butylbenzene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Tetrachloroethene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Toluene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| trans-1,2-Dichloroethene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Trichloroethene | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Trichlorofluoromethane | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Vinyl chloride | ND | 3.6 | µg/Kg | 1 | | | 8/12/2011 03:55 PM |
| Surr: 1,2-Dichloroethane-d4 | 97.8 | 65-141 | %REC | 1 | | | 8/12/2011 03:55 PM |
| Surr: 4-Bromofluorobenzene | 89.5 | 57-134 | %REC | 1 | | | 8/12/2011 03:55 PM |
| Surr: Dibromofluoromethane | 96.5 | 70-128 | %REC | 1 | | | 8/12/2011 03:55 PM |
| Surr: Toluene-d8 | 95.7 | 72-123 | %REC | 1 | | | 8/12/2011 03:55 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

| | | | |
|-------------------|-----------------------------------|--------------------------|---------------------|
| CLIENT: | Mactec | Client Sample ID: | E-125-75 |
| Lab Order: | 119318 | Collection Date: | 8/5/2011 2:05:00 PM |
| Project: | METRO WESTSIDE EXTENSION, 4953-10 | Matrix: | SOIL |
| Lab ID: | 119318-003D | | |

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

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

| | | | | | |
|--------------------------------|--------------------|--------------------|-------------|---|--------------------|
| RunID: GC2_110812A | QC Batch: E11VS297 | PrepDate: 8/5/2011 | Analyst: TP | | |
| GRO | ND | 0.73 | mg/Kg | 1 | 8/12/2011 02:40 PM |
| Surr: Bromofluorobenzene (FID) | 113 | 51-161 | %REC | 1 | 8/12/2011 02:40 PM |

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



*Advanced Technology
Laboratories*

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

CLIENT: Mactec **Client Sample ID:** E-125-75
Lab Order: 119318 **Collection Date:** 8/5/2011 2:05:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119318-003G

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|-----------------|--------|------|-------|---------------------|--------------------|
| DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID | | | | | | |
| | LUFT | | | | EPA 8015B(M) | |
| RunID: GC16_110811A | QC Batch: 74856 | | | | PrepDate: 8/11/2011 | Analyst: CBR |
| DRO | ND | 10 | | mg/Kg | 1 | 8/11/2011 12:29 PM |
| ORO | ND | 10 | | mg/Kg | 1 | 8/11/2011 12:29 PM |
| Surr: p-Terphenyl | 85.3 | 63-152 | | %REC | 1 | 8/11/2011 12:29 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

CLIENT: Mactec **Client Sample ID:** E-125-GW
Lab Order: 119318 **Collection Date:** 8/5/2011 11:20:00 AM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** GROUNDWATER
Lab ID: 119318-004A

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: MS2_110817A | QC Batch: Q11VW151 | PrepDate: | Analyst: BD | | |
|-----------------------------|--------------------|-----------|-------------|---|--------------------|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,1-Dichloroethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,1-Dichloroethene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,1-Dichloropropene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,2-Dibromoethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,2-Dichloroethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,2-Dichloropropane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 1,4-Dichlorobenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 2,2-Dichloropropane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 2-Chlorotoluene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 4-Chlorotoluene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| 4-Isopropyltoluene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Benzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Bromobenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Bromoform | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Bromomethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Carbon tetrachloride | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Chlorobenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Chloroethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Chloroform | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Chloromethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

CLIENT: Mactec **Client Sample ID:** E-125-GW
Lab Order: 119318 **Collection Date:** 8/5/2011 11:20:00 AM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** GROUNDWATER
Lab ID: 119318-004A

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS2_110817A | QC Batch: | Q11VW151 | PrepDate: | Analyst: BD |
|-----------------------------|-------------|-----------|----------|-----------|--------------------|
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Di-isopropyl ether | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Dibromochloromethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Dibromomethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Dichlorodifluoromethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Ethyl tert-butyl ether | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Ethylbenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Hexachlorobutadiene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Isopropylbenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| m,p-Xylene | ND | 1.0 | µg/L | 1 | 8/17/2011 05:16 PM |
| Methylene chloride | ND | 1.0 | µg/L | 1 | 8/17/2011 05:16 PM |
| MTBE | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| n-Butylbenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| n-Propylbenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Naphthalene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| o-Xylene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| sec-Butylbenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Styrene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Tert-amyl methyl ether | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Tert-Butanol | ND | 10 | µg/L | 1 | 8/17/2011 05:16 PM |
| tert-Butylbenzene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Tetrachloroethene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Toluene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| trans-1,2-Dichloroethene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Trichloroethene | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Trichlorofluoromethane | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Vinyl chloride | ND | 0.50 | µg/L | 1 | 8/17/2011 05:16 PM |
| Surr: 1,2-Dichloroethane-d4 | 104 | 70-130 | %REC | 1 | 8/17/2011 05:16 PM |
| Surr: 4-Bromofluorobenzene | 96.2 | 70-130 | %REC | 1 | 8/17/2011 05:16 PM |
| Surr: Dibromofluoromethane | 99.5 | 70-130 | %REC | 1 | 8/17/2011 05:16 PM |
| Surr: Toluene-d8 | 95.7 | 70-130 | %REC | 1 | 8/17/2011 05:16 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

| | | | |
|-------------------|-----------------------------------|--------------------------|----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-125-GW |
| Lab Order: | 119318 | Collection Date: | 8/5/2011 11:20:00 AM |
| Project: | METRO WESTSIDE EXTENSION, 4953-10 | Matrix: | GROUNDWATER |
| Lab ID: | 119318-004B | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------------------|--------|------|---------------------|----|--------------------|
| GASOLINE RANGE ORGANICS BY GC/FID | | | | | | |
| | | | | EPA 8015B(M) | | |
| RunID: GC19_110810A | QC Batch: M11VW156 | | | PrepDate: | | Analyst: BB |
| GRO | ND | 0.20 | | mg/L | 1 | 8/10/2011 04:28 PM |
| Surr: Bromofluorobenzene (FID) | 89.7 | 70-130 | | %REC | 1 | 8/10/2011 04:28 PM |

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



*Advanced Technology
Laboratories*

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

| | | | |
|-------------------|-----------------------------------|--------------------------|----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-125-GW |
| Lab Order: | 119318 | Collection Date: | 8/5/2011 11:20:00 AM |
| Project: | METRO WESTSIDE EXTENSION, 4953-10 | Matrix: | GROUNDWATER |
| Lab ID: | 119318-004C | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|------------------|--------|------|---------------------|----|--------------------|
| DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID | | | | | | |
| | EPA 3510C | | | EPA 8015B(M) | | |
| RunID: GC16_110811B | QC Batch: 74865 | | | PrepDate: 8/11/2011 | | Analyst: CBR |
| DRO | ND | 0.20 | | mg/L | 1 | 8/11/2011 03:53 PM |
| ORO | ND | 0.20 | | mg/L | 1 | 8/11/2011 03:53 PM |
| Surr: p-Terphenyl | 65.0 | 36-126 | | %REC | 1 | 8/11/2011 03:53 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 18-Aug-11

CLIENT: Mactec **Client Sample ID:** E-125-65
Lab Order: 119318 **Collection Date:** 8/5/2011 1:05:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119318-009A

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---------------------|------------------|-----|------------------|---------------------|----|--------------------|
| ICP METALS | | | | | | |
| | EPA 3050B | | EPA 6010B | | | |
| RunID: ICP8_110815A | QC Batch: 74893 | | | PrepDate: 8/15/2011 | | Analyst: IL |
| Antimony | ND | 2.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Arsenic | ND | 1.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Barium | 110 | 1.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Beryllium | ND | 1.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Cadmium | ND | 1.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Chromium | 20 | 1.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Cobalt | 7.8 | 1.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Copper | 10 | 2.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Lead | 2.6 | 1.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Molybdenum | ND | 1.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Nickel | 19 | 1.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Selenium | ND | 1.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Silver | ND | 1.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Thallium | ND | 1.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Vanadium | 20 | 1.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |
| Zinc | 30 | 1.0 | | mg/Kg | 1 | 8/15/2011 12:06 PM |

MERCURY BY COLD VAPOR TECHNIQUE

| | | | | | | |
|--------------------|------------------|------|--|---------------------|---|--------------------|
| | EPA 7471A | | | | | |
| RunID: AA1_110815A | QC Batch: 74892 | | | PrepDate: 8/15/2011 | | Analyst: VV |
| Mercury | ND | 0.10 | | mg/Kg | 1 | 8/15/2011 01:12 PM |

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



Advanced Technology
Laboratories

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

CLIENT: Mactec
Work Order: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

| Sample ID: MB-74893 | SampType: MBLK | TestCode: 6010_S | Units: mg/Kg | Prep Date: 8/15/2011 | RunNo: 135803 | | | | | | |
|----------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBS | Batch ID: 74893 | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 8/15/2011 | SeqNo: 2224613 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------|-------|-----|--|--|--|--|--|--|--|--|--|
| Antimony | 0.167 | 2.0 | | | | | | | | | |
| Arsenic | ND | 1.0 | | | | | | | | | |
| Barium | ND | 1.0 | | | | | | | | | |
| Beryllium | ND | 1.0 | | | | | | | | | |
| Cadmium | ND | 1.0 | | | | | | | | | |
| Chromium | ND | 1.0 | | | | | | | | | |
| Cobalt | ND | 1.0 | | | | | | | | | |
| Copper | ND | 2.0 | | | | | | | | | |
| Lead | ND | 1.0 | | | | | | | | | |
| Molybdenum | ND | 1.0 | | | | | | | | | |
| Nickel | ND | 1.0 | | | | | | | | | |
| Selenium | ND | 1.0 | | | | | | | | | |
| Silver | ND | 1.0 | | | | | | | | | |
| Thallium | ND | 1.0 | | | | | | | | | |
| Vanadium | ND | 1.0 | | | | | | | | | |
| Zinc | 0.163 | 1.0 | | | | | | | | | |

| Sample ID: LCS-74893 | SampType: LCS | TestCode: 6010_S | Units: mg/Kg | Prep Date: 8/15/2011 | RunNo: 135803 | | | | | | |
|-----------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 74893 | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 8/15/2011 | SeqNo: 2224614 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-----------|--------|-----|-------|--------|------|----|-----|--|--|--|--|
| Antimony | 46.633 | 2.0 | 50.00 | 0.1665 | 92.9 | 80 | 120 | | | | |
| Arsenic | 46.487 | 1.0 | 50.00 | 0 | 93.0 | 80 | 120 | | | | |
| Barium | 49.146 | 1.0 | 50.00 | 0 | 98.3 | 80 | 120 | | | | |
| Beryllium | 48.610 | 1.0 | 50.00 | 0 | 97.2 | 80 | 120 | | | | |
| Cadmium | 47.672 | 1.0 | 50.00 | 0 | 95.3 | 80 | 120 | | | | |
| Chromium | 45.539 | 1.0 | 50.00 | 0 | 91.1 | 80 | 120 | | | | |
| Cobalt | 48.931 | 1.0 | 50.00 | 0 | 97.9 | 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: 119318
 Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

| Sample ID: LCS-74893 | | SampType: LCS | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 8/15/2011 | | RunNo: 135803 | | |
|-----------------------------|--------|------------------------|-----------|------------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: LCSS | | Batch ID: 74893 | | TestNo: EPA 6010B EPA 3050B | | | | Analysis Date: 8/15/2011 | | SeqNo: 2224614 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Copper | 49.409 | 2.0 | 50.00 | 0 | 98.8 | 80 | 120 | | | | | |
| Lead | 48.954 | 1.0 | 50.00 | 0 | 97.9 | 80 | 120 | | | | | |
| Molybdenum | 51.180 | 1.0 | 50.00 | 0 | 102 | 80 | 120 | | | | | |
| Nickel | 47.880 | 1.0 | 50.00 | 0 | 95.8 | 80 | 120 | | | | | |
| Selenium | 44.213 | 1.0 | 50.00 | 0 | 88.4 | 80 | 120 | | | | | |
| Silver | 47.418 | 1.0 | 50.00 | 0 | 94.8 | 80 | 120 | | | | | |
| Thallium | 46.832 | 1.0 | 50.00 | 0 | 93.7 | 80 | 120 | | | | | |
| Vanadium | 48.569 | 1.0 | 50.00 | 0 | 97.1 | 80 | 120 | | | | | |
| Zinc | 48.438 | 1.0 | 50.00 | 0.1630 | 96.6 | 80 | 120 | | | | | |

| Sample ID: 119310-001A-MS | | SampType: MS | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 8/15/2011 | | RunNo: 135803 | | |
|----------------------------------|---------|------------------------|-----------|------------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: ZZZZZZ | | Batch ID: 74893 | | TestNo: EPA 6010B EPA 3050B | | | | Analysis Date: 8/15/2011 | | SeqNo: 2224616 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Antimony | 90.455 | 2.0 | 125.0 | 0 | 72.4 | 32 | 105 | | | | | |
| Arsenic | 103.613 | 1.0 | 125.0 | 0 | 82.9 | 49 | 106 | | | | | |
| Barium | 148.522 | 1.0 | 125.0 | 37.36 | 88.9 | 31 | 133 | | | | | |
| Beryllium | 107.810 | 1.0 | 125.0 | 0 | 86.2 | 56 | 106 | | | | | |
| Cadmium | 99.747 | 1.0 | 125.0 | 0.3429 | 79.5 | 51 | 103 | | | | | |
| Chromium | 107.423 | 1.0 | 125.0 | 6.496 | 80.7 | 45 | 114 | | | | | |
| Cobalt | 113.007 | 1.0 | 125.0 | 6.949 | 84.8 | 52 | 106 | | | | | |
| Copper | 123.604 | 2.0 | 125.0 | 8.066 | 92.4 | 54 | 125 | | | | | |
| Lead | 107.736 | 1.0 | 125.0 | 3.886 | 83.1 | 34 | 126 | | | | | |
| Molybdenum | 107.583 | 1.0 | 125.0 | 0 | 86.1 | 54 | 106 | | | | | |
| Nickel | 119.272 | 1.0 | 125.0 | 19.62 | 79.7 | 45 | 111 | | | | | |
| Selenium | 100.660 | 1.0 | 125.0 | 0 | 80.5 | 47 | 104 | | | | | |
| Silver | 108.904 | 1.0 | 125.0 | 0 | 87.1 | 56 | 112 | | | | | |
| Thallium | 94.763 | 1.0 | 125.0 | 0 | 75.8 | 46 | 101 | | | | | |
| Vanadium | 134.704 | 1.0 | 125.0 | 25.39 | 87.4 | 54 | 114 | | | | | |
| Zinc | 128.445 | 1.0 | 125.0 | 22.99 | 84.4 | 28 | 125 | | | | | |

Qualifiers:

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



CLIENT: Mactec
Work Order: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

| Sample ID: 119310-001A-MSD | SampType: MSD | TestCode: 6010_S | Units: mg/Kg | Prep Date: 8/15/2011 | RunNo: 135803 | | | | | | |
|-----------------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|--------|----------|------|
| Client ID: ZZZZZZ | Batch ID: 74893 | TestNo: EPA 6010B | EPA 3050B | Analysis Date: 8/15/2011 | SeqNo: 2224617 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Antimony | 85.723 | 2.0 | 125.0 | 0 | 68.6 | 32 | 105 | 90.45 | 5.37 | 20 | |
| Arsenic | 99.269 | 1.0 | 125.0 | 0 | 79.4 | 49 | 106 | 103.6 | 4.28 | 20 | |
| Barium | 148.395 | 1.0 | 125.0 | 37.36 | 88.8 | 31 | 133 | 148.5 | 0.0855 | 20 | |
| Beryllium | 102.498 | 1.0 | 125.0 | 0 | 82.0 | 56 | 106 | 107.8 | 5.05 | 20 | |
| Cadmium | 95.478 | 1.0 | 125.0 | 0.3429 | 76.1 | 51 | 103 | 99.75 | 4.37 | 20 | |
| Chromium | 104.303 | 1.0 | 125.0 | 6.496 | 78.2 | 45 | 114 | 107.4 | 2.95 | 20 | |
| Cobalt | 110.359 | 1.0 | 125.0 | 6.949 | 82.7 | 52 | 106 | 113.0 | 2.37 | 20 | |
| Copper | 121.402 | 2.0 | 125.0 | 8.066 | 90.7 | 54 | 125 | 123.6 | 1.80 | 20 | |
| Lead | 102.523 | 1.0 | 125.0 | 3.886 | 78.9 | 34 | 126 | 107.7 | 4.96 | 20 | |
| Molybdenum | 104.298 | 1.0 | 125.0 | 0 | 83.4 | 54 | 106 | 107.6 | 3.10 | 20 | |
| Nickel | 117.674 | 1.0 | 125.0 | 19.62 | 78.4 | 45 | 111 | 119.3 | 1.35 | 20 | |
| Selenium | 96.694 | 1.0 | 125.0 | 0 | 77.4 | 47 | 104 | 100.7 | 4.02 | 20 | |
| Silver | 105.256 | 1.0 | 125.0 | 0 | 84.2 | 56 | 112 | 108.9 | 3.41 | 20 | |
| Thallium | 90.143 | 1.0 | 125.0 | 0 | 72.1 | 46 | 101 | 94.76 | 5.00 | 20 | |
| Vanadium | 132.792 | 1.0 | 125.0 | 25.39 | 85.9 | 54 | 114 | 134.7 | 1.43 | 20 | |
| Zinc | 124.762 | 1.0 | 125.0 | 22.99 | 81.4 | 28 | 125 | 128.4 | 2.91 | 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: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-74892 | SampType: MBLK | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/15/2011 | RunNo: 135807 | | | | | | |
| Client ID: PBS | Batch ID: 74892 | TestNo: EPA 7471A | | Analysis Date: 8/15/2011 | SeqNo: 2224679 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury ND 0.10

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-74892 | SampType: LCS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/15/2011 | RunNo: 135807 | | | | | | |
| Client ID: LCSS | Batch ID: 74892 | TestNo: EPA 7471A | | Analysis Date: 8/15/2011 | SeqNo: 2224680 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.799 0.10 0.8300 0 96.2 80 120

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119310-001A-MS | SampType: MS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/15/2011 | RunNo: 135807 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: 74892 | TestNo: EPA 7471A | | Analysis Date: 8/15/2011 | SeqNo: 2224681 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 1.284 0.10 0.8300 1.000 34.1 70 130 S

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119310-001A-MSD | SampType: MSD | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/15/2011 | RunNo: 135807 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: 74892 | TestNo: EPA 7471A | | Analysis Date: 8/15/2011 | SeqNo: 2224682 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 1.273 0.10 0.8300 1.000 32.9 70 130 1.284 0.825 20 S

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: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM H

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-74856 | SampType: MBLK | TestCode: 8015_S_DM H | Units: mg/Kg | Prep Date: 8/11/2011 | RunNo: 135751 | | | | | | |
| Client ID: PBS | Batch ID: 74856 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 8/11/2011 | SeqNo: 2223556 | | | | | | |
| 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 | 82.300 | | 80.00 | | 103 | 63 | 152 | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-74856 | SampType: LCS | TestCode: 8015_S_DM H | Units: mg/Kg | Prep Date: 8/11/2011 | RunNo: 135751 | | | | | | |
| Client ID: LCSS | Batch ID: 74856 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 8/11/2011 | SeqNo: 2223557 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|---------|----|-------|---|------|----|-----|--|--|--|--|
| DRO | 919.260 | 10 | 1000 | 0 | 91.9 | 76 | 139 | | | | |
| Surr: p-Terphenyl | 86.490 | | 80.00 | | 108 | 63 | 152 | | | | |

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119344-031AMS | SampType: MS | TestCode: 8015_S_DM H | Units: mg/Kg | Prep Date: 8/11/2011 | RunNo: 135751 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: 74856 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 8/11/2011 | SeqNo: 2223568 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|---------|----|-------|-------|------|----|-----|--|--|--|--|
| DRO | 870.740 | 10 | 1000 | 10.16 | 86.1 | 60 | 158 | | | | |
| Surr: p-Terphenyl | 73.440 | | 80.00 | | 91.8 | 63 | 152 | | | | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119344-031AMSD | SampType: MSD | TestCode: 8015_S_DM H | Units: mg/Kg | Prep Date: 8/11/2011 | RunNo: 135751 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: 74856 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 8/11/2011 | SeqNo: 2223569 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|---------|----|-------|-------|------|----|-----|-------|-------|----|--|
| DRO | 866.460 | 10 | 1000 | 10.16 | 85.6 | 60 | 158 | 870.7 | 0.493 | 20 | |
| Surr: p-Terphenyl | 72.940 | | 80.00 | | 91.2 | 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: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_G 5035P

| | | | | | | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: E110812LC1 | SampType: LCS | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 135794 | | | | | | |
| Client ID: LCSS | Batch ID: E11VS297 | TestNo: EPA 8015B(M) | Analysis Date: 8/12/2011 | SeqNo: 2224463 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 5.271 | 1.0 | 5.000 | 0 | 105 | 70 | 130 | | | | |
| Surr: Bromofluorobenzene (FID) | 108.484 | | 100.0 | | 108 | 51 | 161 | | | | |

| | | | | | | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: E110812MB1MS | SampType: MS | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 135794 | | | | | | |
| Client ID: ZZZZZ | Batch ID: E11VS297 | TestNo: EPA 8015B(M) | Analysis Date: 8/12/2011 | SeqNo: 2224464 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 5.168 | 1.0 | 5.000 | 0 | 103 | 41 | 146 | | | | |
| Surr: Bromofluorobenzene (FID) | 128.051 | | 100.0 | | 128 | 51 | 161 | | | | |

| | | | | | | | | | | | |
|---------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|-------|----------|------|
| Sample ID: E110812MB1MSD | SampType: MSD | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 135794 | | | | | | |
| Client ID: ZZZZZ | Batch ID: E11VS297 | TestNo: EPA 8015B(M) | Analysis Date: 8/12/2011 | SeqNo: 2224465 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 5.195 | 1.0 | 5.000 | 0 | 104 | 41 | 146 | 5.168 | 0.521 | 20 | |
| Surr: Bromofluorobenzene (FID) | 126.937 | | 100.0 | | 127 | 51 | 161 | | 0 | 0 | |

| | | | | | | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: E110812MB1 | SampType: MBLK | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 135794 | | | | | | |
| Client ID: PBS | Batch ID: E11VS297 | TestNo: EPA 8015B(M) | Analysis Date: 8/12/2011 | SeqNo: 2224466 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | ND | 1.0 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 86.316 | | 100.0 | | 86.3 | 51 | 161 | | | | |

| | | | | | | | | | | | |
|---------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119359-007AMS | SampType: MS | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 135794 | | | | | | |
| Client ID: ZZZZZ | Batch ID: E11VS297 | TestNo: EPA 8015B(M) | Analysis Date: 8/12/2011 | SeqNo: 2224471 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 4.786 | 1.0 | 5.000 | 0 | 95.7 | 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: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_G 5035P

| Sample ID: 119359-007AMS | | SampType: MS | | TestCode: 8015_S_G 50 | | Units: mg/Kg | | Prep Date: | | RunNo: 135794 | |
|---------------------------------|---------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZZ | | Batch ID: E11VS297 | | TestNo: EPA 8015B(M) | | Analysis Date: 8/12/2011 | | | | SeqNo: 2224471 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: Bromofluorobenzene (FID) | 118.193 | | 100.0 | | 118 | 51 | 161 | | | | |

| Sample ID: 119359-007AMSD | | SampType: MSD | | TestCode: 8015_S_G 50 | | Units: mg/Kg | | Prep Date: | | RunNo: 135794 | |
|----------------------------------|---------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZZ | | Batch ID: E11VS297 | | TestNo: EPA 8015B(M) | | Analysis Date: 8/12/2011 | | | | SeqNo: 2224472 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 4.933 | 1.0 | 5.000 | 0 | 98.7 | 41 | 146 | 4.786 | 3.03 | 20 | |
| Surr: Bromofluorobenzene (FID) | 113.906 | | 100.0 | | 114 | 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: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DM

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-74865 | SampType: MBLK | TestCode: 8015_W_DM | Units: mg/L | Prep Date: 8/11/2011 | RunNo: 135772 | | | | | | |
| Client ID: PBW | Batch ID: 74865 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 8/11/2011 | SeqNo: 2223843 | | | | | | |
| 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 | 0.044 | | 0.08000 | | 54.5 | 36 | 126 | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-74865 | SampType: LCS | TestCode: 8015_W_DM | Units: mg/L | Prep Date: 8/11/2011 | RunNo: 135772 | | | | | | |
| Client ID: LCSW | Batch ID: 74865 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 8/11/2011 | SeqNo: 2223844 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|-------|------|---------|---|------|----|-----|--|--|--|--|
| DRO | 0.597 | 0.20 | 1.000 | 0 | 59.7 | 52 | 128 | | | | |
| Surr: p-Terphenyl | 0.051 | | 0.08000 | | 64.4 | 36 | 126 | | | | |

| | | | | | | | | | | | |
|------------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-74865MS | SampType: MS | TestCode: 8015_W_DM | Units: mg/L | Prep Date: 8/11/2011 | RunNo: 135772 | | | | | | |
| Client ID: ZZZZZ | Batch ID: 74865 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 8/11/2011 | SeqNo: 2223845 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|-------|------|---------|---|------|----|-----|--|--|--|--|
| DRO | 0.599 | 0.20 | 1.000 | 0 | 59.9 | 52 | 128 | | | | |
| Surr: p-Terphenyl | 0.044 | | 0.08000 | | 55.3 | 36 | 126 | | | | |

| | | | | | | | | | | | |
|-------------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-74865MSD | SampType: MSD | TestCode: 8015_W_DM | Units: mg/L | Prep Date: 8/11/2011 | RunNo: 135772 | | | | | | |
| Client ID: ZZZZZ | Batch ID: 74865 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 8/11/2011 | SeqNo: 2223846 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|-------|------|---------|---|------|----|-----|--------|------|----|--|
| DRO | 0.571 | 0.20 | 1.000 | 0 | 57.1 | 52 | 128 | 0.5990 | 4.72 | 20 | |
| Surr: p-Terphenyl | 0.050 | | 0.08000 | | 62.2 | 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: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_G PRES

| | | | | | | | | | | | |
|-------------------------------|---------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: M110810LCS2 | SampType: LCS | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 135735 | | | | | | |
| Client ID: LCSW | Batch ID: M11VW156 | TestNo: EPA 8015B(M) | Analysis Date: 8/10/2011 | SeqNo: 2223175 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|--------------------------------|--------|------|-------|---|------|----|-----|--|--|--|--|
| GRO | 1.099 | 0.20 | 1.000 | 0 | 110 | 70 | 130 | | | | |
| Surr: Bromofluorobenzene (FID) | 89.753 | | 100.0 | | 89.8 | 70 | 130 | | | | |

| | | | | | | | | | | | |
|--------------------------------|---------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: M110810MB1MS | SampType: MS | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 135735 | | | | | | |
| Client ID: ZZZZZ | Batch ID: M11VW156 | TestNo: EPA 8015B(M) | Analysis Date: 8/10/2011 | SeqNo: 2223177 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|--------------------------------|--------|------|-------|---|------|----|-----|--|--|--|--|
| GRO | 1.042 | 0.20 | 1.000 | 0 | 104 | 70 | 130 | | | | |
| Surr: Bromofluorobenzene (FID) | 89.977 | | 100.0 | | 90.0 | 70 | 130 | | | | |

| | | | | | | | | | | | |
|---------------------------------|---------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: M110810MB1MSD | SampType: MSD | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 135735 | | | | | | |
| Client ID: ZZZZZ | Batch ID: M11VW156 | TestNo: EPA 8015B(M) | Analysis Date: 8/10/2011 | SeqNo: 2223178 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|--------------------------------|--------|------|-------|---|------|----|-----|-------|------|----|--|
| GRO | 1.131 | 0.20 | 1.000 | 0 | 113 | 70 | 130 | 1.042 | 8.19 | 20 | |
| Surr: Bromofluorobenzene (FID) | 91.935 | | 100.0 | | 91.9 | 70 | 130 | | 0 | 0 | |

| | | | | | | | | | | | |
|------------------------------|---------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: M110810MB1 | SampType: MBLK | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 135735 | | | | | | |
| Client ID: PBW | Batch ID: M11VW156 | TestNo: EPA 8015B(M) | Analysis Date: 8/10/2011 | SeqNo: 2223179 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|--------------------------------|--------|------|-------|--|------|----|-----|--|--|--|--|
| GRO | ND | 0.20 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 88.859 | | 100.0 | | 88.9 | 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: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| Sample ID: T110812LCS1 | | SampType: LCS | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135785 | | |
|-------------------------------|--------|---------------------------|-----------|------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: LCSS | | Batch ID: T11VS145 | | TestNo: EPA 8260B | | | | Analysis Date: 8/12/2011 | | SeqNo: 2224318 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| 1,1-Dichloroethene | 41.790 | 5.0 | 50.00 | 0 | 83.6 | 70 | 130 | | | | | |
| Benzene | 90.750 | 5.0 | 100.0 | 0 | 90.8 | 70 | 130 | | | | | |
| Chlorobenzene | 52.280 | 5.0 | 50.00 | 0 | 105 | 70 | 130 | | | | | |
| MTBE | 44.870 | 5.0 | 50.00 | 0 | 89.7 | 70 | 130 | | | | | |
| Toluene | 97.170 | 5.0 | 100.0 | 0 | 97.2 | 70 | 130 | | | | | |
| Trichloroethene | 49.100 | 5.0 | 50.00 | 0 | 98.2 | 70 | 130 | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 40.270 | | 50.00 | | 80.5 | 65 | 141 | | | | | |
| Surr: 4-Bromofluorobenzene | 46.990 | | 50.00 | | 94.0 | 57 | 134 | | | | | |
| Surr: Dibromofluoromethane | 44.570 | | 50.00 | | 89.1 | 70 | 128 | | | | | |
| Surr: Toluene-d8 | 47.780 | | 50.00 | | 95.6 | 72 | 123 | | | | | |

| Sample ID: T110812MB1MS | | SampType: MS | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135785 | | |
|--------------------------------|--------|---------------------------|-----------|------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: ZZZZZ | | Batch ID: T11VS145 | | TestNo: EPA 8260B | | | | Analysis Date: 8/12/2011 | | SeqNo: 2224319 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| 1,1-Dichloroethene | 43.860 | 5.0 | 50.00 | 0 | 87.7 | 70 | 130 | | | | | |
| Benzene | 94.190 | 5.0 | 100.0 | 0 | 94.2 | 70 | 130 | | | | | |
| Chlorobenzene | 51.430 | 5.0 | 50.00 | 0 | 103 | 70 | 130 | | | | | |
| MTBE | 47.650 | 5.0 | 50.00 | 0 | 95.3 | 70 | 130 | | | | | |
| Toluene | 99.630 | 5.0 | 100.0 | 0 | 99.6 | 70 | 130 | | | | | |
| Trichloroethene | 51.130 | 5.0 | 50.00 | 0 | 102 | 70 | 130 | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 41.330 | | 50.00 | | 82.7 | 65 | 141 | | | | | |
| Surr: 4-Bromofluorobenzene | 42.580 | | 50.00 | | 85.2 | 57 | 134 | | | | | |
| Surr: Dibromofluoromethane | 47.110 | | 50.00 | | 94.2 | 70 | 128 | | | | | |
| Surr: Toluene-d8 | 47.320 | | 50.00 | | 94.6 | 72 | 123 | | | | | |

| Sample ID: T110812MB1MSD | | SampType: MSD | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135785 | | |
|---------------------------------|--------|---------------------------|-----------|------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: ZZZZZ | | Batch ID: T11VS145 | | TestNo: EPA 8260B | | | | Analysis Date: 8/12/2011 | | SeqNo: 2224320 | | |
| 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: 119318
 Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| Sample ID: T110812MB1MSD | | SampType: MSD | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135785 | |
|-----------------------------|--------|--------------------|-----------|-----------------------|------|--------------------------|-----------|-------------|-------|----------------|------|
| Client ID: ZZZZZZ | | Batch ID: T11VS145 | | TestNo: EPA 8260B | | Analysis Date: 8/12/2011 | | | | SeqNo: 2224320 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 43.150 | 5.0 | 50.00 | 0 | 86.3 | 70 | 130 | 43.86 | 1.63 | 20 | |
| Benzene | 91.930 | 5.0 | 100.0 | 0 | 91.9 | 70 | 130 | 94.19 | 2.43 | 20 | |
| Chlorobenzene | 51.130 | 5.0 | 50.00 | 0 | 102 | 70 | 130 | 51.43 | 0.585 | 20 | |
| MTBE | 46.520 | 5.0 | 50.00 | 0 | 93.0 | 70 | 130 | 47.65 | 2.40 | 20 | |
| Toluene | 98.390 | 5.0 | 100.0 | 0 | 98.4 | 70 | 130 | 99.63 | 1.25 | 20 | |
| Trichloroethene | 48.160 | 5.0 | 50.00 | 0 | 96.3 | 70 | 130 | 51.13 | 5.98 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 41.580 | | 50.00 | | 83.2 | 65 | 141 | | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 42.460 | | 50.00 | | 84.9 | 57 | 134 | | 0 | 0 | |
| Surr: Dibromofluoromethane | 45.480 | | 50.00 | | 91.0 | 70 | 128 | | 0 | 0 | |
| Surr: Toluene-d8 | 46.310 | | 50.00 | | 92.6 | 72 | 123 | | 0 | 0 | |

| Sample ID: T110812MB1 | | SampType: MBLK | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135785 | |
|-----------------------------|--------|--------------------|-----------|-----------------------|------|--------------------------|-----------|-------------|------|----------------|------|
| Client ID: PBS | | Batch ID: T11VS145 | | TestNo: EPA 8260B | | Analysis Date: 8/12/2011 | | | | SeqNo: 2224321 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 5.0 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 5.0 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 10 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 5.0 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | | | | | | | | | |

Qualifiers:

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



CLIENT: Mactec
Work Order: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| Sample ID: T110812MB1 | | SampType: MBLK | | TestCode: 8260_S_5035 Units: µg/Kg | | Prep Date: | | RunNo: 135785 | | | |
|------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: PBS | | Batch ID: T11VS145 | | TestNo: EPA 8260B | | Analysis Date: 8/12/2011 | | SeqNo: 2224321 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,2-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | | | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 5.0 | | | | | | | | | |
| Benzene | ND | 5.0 | | | | | | | | | |
| Bromobenzene | ND | 5.0 | | | | | | | | | |
| Bromodichloromethane | ND | 5.0 | | | | | | | | | |
| Bromoform | ND | 5.0 | | | | | | | | | |
| Bromomethane | ND | 5.0 | | | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | | | | | | | | | |
| Chlorobenzene | ND | 5.0 | | | | | | | | | |
| Chloroethane | ND | 5.0 | | | | | | | | | |
| Chloroform | ND | 5.0 | | | | | | | | | |
| Chloromethane | ND | 5.0 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 5.0 | | | | | | | | | |
| Di-isopropyl ether | ND | 5.0 | | | | | | | | | |
| Dibromochloromethane | ND | 5.0 | | | | | | | | | |
| Dibromomethane | ND | 5.0 | | | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | | | | | | | | | |
| Ethyl Tert-butyl ether | ND | 5.0 | | | | | | | | | |
| Ethylbenzene | ND | 5.0 | | | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | | | | | | | | | |
| Isopropylbenzene | ND | 5.0 | | | | | | | | | |
| m,p-Xylene | ND | 10 | | | | | | | | | |

Qualifiers:

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



CLIENT: Mactec
Work Order: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| Sample ID: T110812MB1 | | SampType: MBLK | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135785 | | |
|------------------------------|--------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-----------------------|------|----------------------|------|--|
| Client ID: PBS | | Batch ID: T11VS145 | | TestNo: EPA 8260B | | Analysis Date: 8/12/2011 | | SeqNo: 2224321 | | | | |
| 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 | 41.720 | | 50.00 | | 83.4 | 65 | 141 | | | | | |
| Surr: 4-Bromofluorobenzene | 42.040 | | 50.00 | | 84.1 | 57 | 134 | | | | | |
| Surr: Dibromofluoromethane | 44.870 | | 50.00 | | 89.7 | 70 | 128 | | | | | |
| Surr: Toluene-d8 | 45.900 | | 50.00 | | 91.8 | 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 | |



CLIENT: Mactec
Work Order: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| Sample ID: Q110817LCS1 | | SampType: LCS | | TestCode: 8260_WP_LL Units: µg/L | | Prep Date: | | RunNo: 135885 | | | |
|-------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSW | | Batch ID: Q11VW151 | | TestNo: EPA 8260B | | Analysis Date: 8/17/2011 | | SeqNo: 2226947 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 16.710 | 0.50 | 20.00 | 0 | 83.6 | 70 | 130 | | | | |
| Benzene | 39.230 | 0.50 | 40.00 | 0 | 98.1 | 70 | 130 | | | | |
| Chlorobenzene | 20.360 | 0.50 | 20.00 | 0 | 102 | 70 | 130 | | | | |
| MTBE | 21.830 | 0.50 | 20.00 | 0 | 109 | 70 | 130 | | | | |
| Toluene | 41.350 | 0.50 | 40.00 | 0 | 103 | 70 | 130 | | | | |
| Trichloroethene | 20.290 | 0.50 | 20.00 | 0 | 101 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 22.080 | | 25.00 | | 88.3 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 24.160 | | 25.00 | | 96.6 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 22.210 | | 25.00 | | 88.8 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 23.950 | | 25.00 | | 95.8 | 70 | 130 | | | | |

| Sample ID: Q110817MB3MS | | SampType: MS | | TestCode: 8260_WP_LL Units: µg/L | | Prep Date: | | RunNo: 135885 | | | |
|--------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: ZZZZZ | | Batch ID: Q11VW151 | | TestNo: EPA 8260B | | Analysis Date: 8/17/2011 | | SeqNo: 2226948 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 17.010 | 0.50 | 20.00 | 0 | 85.0 | 70 | 130 | | | | |
| Benzene | 39.840 | 0.50 | 40.00 | 0 | 99.6 | 70 | 130 | | | | |
| Chlorobenzene | 20.970 | 0.50 | 20.00 | 0 | 105 | 70 | 130 | | | | |
| MTBE | 22.020 | 0.50 | 20.00 | 0 | 110 | 70 | 130 | | | | |
| Toluene | 41.590 | 0.50 | 40.00 | 0 | 104 | 70 | 130 | | | | |
| Trichloroethene | 20.250 | 0.50 | 20.00 | 0 | 101 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 22.160 | | 25.00 | | 88.6 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 23.910 | | 25.00 | | 95.6 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 22.100 | | 25.00 | | 88.4 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 23.750 | | 25.00 | | 95.0 | 70 | 130 | | | | |

| Sample ID: Q110817MB3MSD | | SampType: MSD | | TestCode: 8260_WP_LL Units: µg/L | | Prep Date: | | RunNo: 135885 | | | |
|---------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: ZZZZZ | | Batch ID: Q11VW151 | | TestNo: EPA 8260B | | Analysis Date: 8/17/2011 | | SeqNo: 2226949 | | | |
| 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: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| Sample ID: Q110817MB3MSD | | SampType: MSD | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 135885 | |
|---------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-------------|-------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: Q11VW151 | | TestNo: EPA 8260B | | Analysis Date: 8/17/2011 | | | | SeqNo: 2226949 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 17.560 | 0.50 | 20.00 | 0 | 87.8 | 70 | 130 | 17.01 | 3.18 | 20 | |
| Benzene | 40.390 | 0.50 | 40.00 | 0 | 101 | 70 | 130 | 39.84 | 1.37 | 20 | |
| Chlorobenzene | 20.840 | 0.50 | 20.00 | 0 | 104 | 70 | 130 | 20.97 | 0.622 | 20 | |
| MTBE | 21.980 | 0.50 | 20.00 | 0 | 110 | 70 | 130 | 22.02 | 0.182 | 20 | |
| Toluene | 41.900 | 0.50 | 40.00 | 0 | 105 | 70 | 130 | 41.59 | 0.743 | 20 | |
| Trichloroethene | 20.670 | 0.50 | 20.00 | 0 | 103 | 70 | 130 | 20.25 | 2.05 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 21.750 | | 25.00 | | 87.0 | 70 | 130 | | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 23.730 | | 25.00 | | 94.9 | 70 | 130 | | 0 | 0 | |
| Surr: Dibromofluoromethane | 21.990 | | 25.00 | | 88.0 | 70 | 130 | | 0 | 0 | |
| Surr: Toluene-d8 | 23.780 | | 25.00 | | 95.1 | 70 | 130 | | 0 | 0 | |

| Sample ID: Q110817MB3 | | SampType: MBLK | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 135885 | |
|------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: PBW | | Batch ID: Q11VW151 | | TestNo: EPA 8260B | | Analysis Date: 8/17/2011 | | | | SeqNo: 2226950 | |
| 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-Dichloroethane | 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: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| Sample ID: Q110817MB3 | | SampType: MBLK | | TestCode: 8260_WP_LL Units: µg/L | | Prep Date: | | RunNo: 135885 | | | |
|------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: PBW | | Batch ID: Q11VW151 | | TestNo: EPA 8260B | | Analysis Date: 8/17/2011 | | SeqNo: 2226950 | | | |
| 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 | 0.210 | 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 | |



CLIENT: Mactec
Work Order: 119318
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| Sample ID: Q110817MB3 | | SampType: MBLK | | TestCode: 8260_WP_LL Units: µg/L | | Prep Date: | | RunNo: 135885 | | | |
|------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: PBW | | Batch ID: Q11VW151 | | TestNo: EPA 8260B | | Analysis Date: 8/17/2011 | | SeqNo: 2226950 | | | |
| 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 | 24.600 | | 25.00 | | 98.4 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 24.680 | | 25.00 | | 98.7 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 24.280 | | 25.00 | | 97.1 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 24.330 | | 25.00 | | 97.3 | 70 | 130 | | | | |

Qualifiers:

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



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: 8/11/11
 NOTE: Please include your Quote No. to ensure proper pricing of your project.

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

Client: MACTEC Address: 5628 E. SLAUSON AVE State: CA Zip Code: 90040 TEL: _____ FAX: _____
 Attn: MATT FRAYCHINEAUD City: LOS ANGELES State: CA Zip Code: _____
 Project Name: METRO WESTSIDE EXTENSION Sampler: DUAN D. SNYDER (Printed Name) (Signature) _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) _____ Date: 08/05/11 Time: 17:00
 Relinquished by: (Signature and Printed Name) _____ Date: 8/11/11 Time: 10:05
 I hereby authorize ATL to perform the work indicated below:
 Project Mgr /Submitter: _____ Attn: _____
 Matt Fraychineaud 8/11/11 Date: _____
 Matt Fraychineaud Signature: _____

Circle or Add Analysis(es) Requested: _____
 TITL E 22 / CAM 17 (6010 / 7000)
 8015B (PRO) 7020
 8015B (GRO) / 804 (GRO)
 6010B (Total Metal) TOX
 8270C (BNA)
 8260B (Volatiles)
 8082 (PCB)
 8081A (Pesticides)

| LAB USE ONLY: Batch #: Lab No. | Sample Description | Sample I.D. / Location | | Date | | Time | SPECIFY APPROPRIATE MATRIX | | | | | | | CONTAINER(S) | | TAT | Type | REMARKS |
|--------------------------------------|--------------------|------------------------|----------|------|-------|------|----------------------------|------|----------------|--------------|------------|------------|---------|--------------|------|------|------|---------|
| | | Sample I.D. | Location | Date | Time | | SEDIMENT | SOIL | DRINKING WATER | GROUND WATER | WASTEWATER | STORMWATER | AQUEOUS | Container(s) | Type | | | |
| 119318-071 | | E-125-60 | | 8/05 | 12:40 | | X | X | X | X | X | X | X | X | E | 7 TV | | |
| | 2 | E-125-70 | | 8/05 | 13:55 | | X | X | X | X | X | X | X | X | E | 7 TV | | |
| | 3 | E-125-75 | | 8/05 | 14:05 | | X | X | X | X | X | X | X | X | E | 7 TV | | |
| | 4 | E-125-64 | | 8/05 | 11:20 | | X | X | X | X | X | X | X | X | E | 6 JV | | |
| | 5 | E-125-30 | | 8/05 | 10:40 | | | | | | | | | | | 1 T | Hold | |
| | 6 | E-125-40 | | 8/05 | 10:55 | | | | | | | | | | | 1 T | Hold | |
| | 7 | E-125-50 | | 8/05 | 11:45 | | | | | | | | | | | 1 T | Hold | |
| | 8 | E-125-55 | | 8/05 | 12:10 | | | | | | | | | | | 1 T | Hold | |
| | 9 | E-125-65 | | 8/05 | 13:05 | | | | | | | | X | | | 1 T | Hold | |

Special Instructions/Comments: 8/11/11 10:520

Received by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Received by: (Signature and Printed Name) _____ Date: 8/11/11 Time: 17:00
 Received by: (Signature and Printed Name) _____ Date: 8/11/11 Time: 10:05

Co: _____ City: _____ State: _____ Zip: _____
 Addr: _____ City: _____ State: _____ Zip: _____

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

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.
 Rev. 2010-0325

August 22, 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.: 119384

RE: Metro Westside Extension, 4953101561

Attention: Matt Fraychineaud

Enclosed are the results for sample(s) received on August 12, 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 is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Aug-11

CLIENT: Mactec **Client Sample ID:** E-126-25'
Lab Order: 119384 **Collection Date:** 8/11/2011 10:25:00 AM
Project: Metro Westside Extension, 4953101561 **Matrix:** SOIL
Lab ID: 119384-004B

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS5_110815B | QC Batch: | T11VS149 | PrepDate: | 8/11/2011 | Analyst: | DDL |
|-----------------------------|-------------|-----------|----------|-----------|--------------------|----------|-----|
| 1,1,1,2-Tetrachloroethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,1,1-Trichloroethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,1,2-Trichloroethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,1-Dichloroethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,1-Dichloroethene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,1-Dichloropropene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,2,3-Trichlorobenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,2,3-Trichloropropane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,2,4-Trichlorobenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,2,4-Trimethylbenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,2-Dibromo-3-chloropropane | ND | 12 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,2-Dibromoethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,2-Dichlorobenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,2-Dichloroethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,2-Dichloropropane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,3,5-Trimethylbenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,3-Dichlorobenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,3-Dichloropropane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 1,4-Dichlorobenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 2,2-Dichloropropane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 2-Chlorotoluene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 4-Chlorotoluene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| 4-Isopropyltoluene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| Benzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| Bromobenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| Bromodichloromethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| Bromoform | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| Bromomethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| Carbon tetrachloride | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| Chlorobenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| Chloroethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| Chloroform | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| Chloromethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |
| cis-1,2-Dichloroethene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM | | |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Aug-11

| | | | |
|-------------------|--------------------------------------|--------------------------|-----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-126-25' |
| Lab Order: | 119384 | Collection Date: | 8/11/2011 10:25:00 AM |
| Project: | Metro Westside Extension, 4953101561 | Matrix: | SOIL |
| Lab ID: | 119384-004B | | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | | | |
|-----------------------------|--------------------|---------------------|--------------|---|--------------------|
| RunID: MS5_110815B | QC Batch: T11VS149 | PrepDate: 8/11/2011 | Analyst: DDL | | |
| cis-1,3-Dichloropropene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Di-isopropyl ether | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Dibromochloromethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Dibromomethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Dichlorodifluoromethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Ethyl Tert-butyl ether | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Ethylbenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Hexachlorobutadiene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Isopropylbenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| m,p-Xylene | ND | 12 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Methylene chloride | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| MTBE | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| n-Butylbenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| n-Propylbenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Naphthalene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| o-Xylene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| sec-Butylbenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Styrene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Tert-amyl methyl ether | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Tert-Butanol | ND | 120 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| tert-Butylbenzene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Tetrachloroethene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Toluene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| trans-1,2-Dichloroethene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Trichloroethene | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Trichlorofluoromethane | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Vinyl chloride | ND | 5.8 | µg/Kg | 1 | 8/16/2011 01:51 AM |
| Surr: 1,2-Dichloroethane-d4 | 93.3 | 65-141 | %REC | 1 | 8/16/2011 01:51 AM |
| Surr: 4-Bromofluorobenzene | 90.6 | 57-134 | %REC | 1 | 8/16/2011 01:51 AM |
| Surr: Dibromofluoromethane | 94.2 | 70-128 | %REC | 1 | 8/16/2011 01:51 AM |
| Surr: Toluene-d8 | 92.4 | 72-123 | %REC | 1 | 8/16/2011 01:51 AM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Aug-11

| | | | |
|-------------------|--------------------------------------|--------------------------|-----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-126-30' |
| Lab Order: | 119384 | Collection Date: | 8/11/2011 10:35:00 AM |
| Project: | Metro Westside Extension, 4953101561 | Matrix: | SOIL |
| Lab ID: | 119384-005A | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---------------------|------------------|-----|------|---------------------|----|--------------------|
| ICP METALS | | | | | | |
| | EPA 3050B | | | EPA 6010B | | |
| RunID: ICP8_110817B | QC Batch: 74967 | | | PrepDate: 8/17/2011 | | Analyst: IL |
| Antimony | ND | 2.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Arsenic | 9.6 | 1.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Barium | 89 | 1.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Beryllium | ND | 1.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Cadmium | 1.3 | 1.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Chromium | 26 | 1.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Cobalt | 11 | 1.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Copper | 17 | 2.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Lead | 4.7 | 1.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Molybdenum | ND | 1.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Nickel | 24 | 1.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Selenium | ND | 1.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Silver | ND | 1.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Thallium | ND | 1.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Vanadium | 45 | 1.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |
| Zinc | 46 | 1.0 | | mg/Kg | 1 | 8/17/2011 01:07 PM |

| | | | | | | |
|--|------------------|------|--|---------------------|---|--------------------|
| MERCURY BY COLD VAPOR TECHNIQUE | | | | | | |
| | EPA 7471A | | | | | |
| RunID: AA1_110817B | QC Batch: 74969 | | | PrepDate: 8/17/2011 | | Analyst: VV |
| Mercury | ND | 0.10 | | mg/Kg | 1 | 8/17/2011 05:36 PM |

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Aug-11

CLIENT: Mactec **Client Sample ID:** E-126-45'
Lab Order: 119384 **Collection Date:** 8/11/2011 12:20:00 PM
Project: Metro Westside Extension, 4953101561 **Matrix:** SOIL
Lab ID: 119384-007B

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS5_110815B | QC Batch: | T11VS149 | PrepDate: | 8/11/2011 | Analyst: | DDL |
|-----------------------------|-------------|-----------|----------|-----------|--------------------|----------|-----|
| 1,1,1,2-Tetrachloroethane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,1,1-Trichloroethane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,1,2,2-Tetrachloroethane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,1,2-Trichloroethane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,1-Dichloroethane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,1-Dichloroethene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,1-Dichloropropene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,2,3-Trichlorobenzene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,2,3-Trichloropropane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,2,4-Trichlorobenzene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,2,4-Trimethylbenzene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,2-Dibromo-3-chloropropane | ND | 13 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,2-Dibromoethane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,2-Dichlorobenzene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,2-Dichloroethane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,2-Dichloropropane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,3,5-Trimethylbenzene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,3-Dichlorobenzene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,3-Dichloropropane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 1,4-Dichlorobenzene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 2,2-Dichloropropane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 2-Chlorotoluene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 4-Chlorotoluene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| 4-Isopropyltoluene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| Benzene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| Bromobenzene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| Bromodichloromethane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| Bromoform | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| Bromomethane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| Carbon tetrachloride | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| Chlorobenzene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| Chloroethane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| Chloroform | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| Chloromethane | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |
| cis-1,2-Dichloroethene | ND | 6.7 | µg/Kg | 1 | 8/16/2011 02:10 AM | | |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Aug-11

CLIENT: Mactec **Client Sample ID:** E-126-45'
Lab Order: 119384 **Collection Date:** 8/11/2011 12:20:00 PM
Project: Metro Westside Extension, 4953101561 **Matrix:** SOIL
Lab ID: 119384-007B

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------------------|--------|------|-----------|-----------|--------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS | | | | | | |
| EPA 8260B | | | | | | |
| RunID: MS5_110815B | QC Batch: T11VS149 | | | PrepDate: | 8/11/2011 | Analyst: DDL |
| cis-1,3-Dichloropropene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Di-isopropyl ether | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Dibromochloromethane | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Dibromomethane | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Dichlorodifluoromethane | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Ethyl Tert-butyl ether | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Ethylbenzene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Hexachlorobutadiene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Isopropylbenzene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| m,p-Xylene | ND | 13 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Methylene chloride | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| MTBE | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| n-Butylbenzene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| n-Propylbenzene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Naphthalene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| o-Xylene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| sec-Butylbenzene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Styrene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Tert-amyl methyl ether | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Tert-Butanol | ND | 130 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| tert-Butylbenzene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Tetrachloroethene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Toluene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| trans-1,2-Dichloroethene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Trichloroethene | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Trichlorofluoromethane | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Vinyl chloride | ND | 6.7 | | µg/Kg | 1 | 8/16/2011 02:10 AM |
| Surr: 1,2-Dichloroethane-d4 | 90.8 | 65-141 | | %REC | 1 | 8/16/2011 02:10 AM |
| Surr: 4-Bromofluorobenzene | 88.4 | 57-134 | | %REC | 1 | 8/16/2011 02:10 AM |
| Surr: Dibromofluoromethane | 96.2 | 70-128 | | %REC | 1 | 8/16/2011 02:10 AM |
| Surr: Toluene-d8 | 96.4 | 72-123 | | %REC | 1 | 8/16/2011 02:10 AM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Aug-11

CLIENT: Mactec **Client Sample ID:** E-126-70'
Lab Order: 119384 **Collection Date:** 8/11/2011 2:15:00 PM
Project: Metro Westside Extension, 4953101561 **Matrix:** SOIL
Lab ID: 119384-012B

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS5_110815B | QC Batch: | T11VS149 | PrepDate: | 8/11/2011 | Analyst: | DDL |
|-----------------------------|-------------|-----------|----------|-----------|--------------------|----------|-----|
| 1,1,1,2-Tetrachloroethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,1,1-Trichloroethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,1,2,2-Tetrachloroethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,1,2-Trichloroethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,1-Dichloroethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,1-Dichloroethene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,1-Dichloropropene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,2,3-Trichlorobenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,2,3-Trichloropropane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,2,4-Trichlorobenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,2,4-Trimethylbenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,2-Dibromo-3-chloropropane | ND | 18 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,2-Dibromoethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,2-Dichlorobenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,2-Dichloroethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,2-Dichloropropane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,3,5-Trimethylbenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,3-Dichlorobenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,3-Dichloropropane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 1,4-Dichlorobenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 2,2-Dichloropropane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 2-Chlorotoluene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 4-Chlorotoluene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| 4-Isopropyltoluene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Benzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Bromobenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Bromodichloromethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Bromoform | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Bromomethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Carbon tetrachloride | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Chlorobenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Chloroethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Chloroform | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Chloromethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| cis-1,2-Dichloroethene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Aug-11

CLIENT: Mactec **Client Sample ID:** E-126-70'
Lab Order: 119384 **Collection Date:** 8/11/2011 2:15:00 PM
Project: Metro Westside Extension, 4953101561 **Matrix:** SOIL
Lab ID: 119384-012B

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS5_110815B | QC Batch: | T11VS149 | PrepDate: | 8/11/2011 | Analyst: | DDL |
|-----------------------------|-------------|-----------|----------|-----------|--------------------|----------|-----|
| cis-1,3-Dichloropropene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Di-isopropyl ether | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Dibromochloromethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Dibromomethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Dichlorodifluoromethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Ethyl Tert-butyl ether | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Ethylbenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Hexachlorobutadiene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Isopropylbenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| m,p-Xylene | ND | 18 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Methylene chloride | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| MTBE | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| n-Butylbenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| n-Propylbenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Naphthalene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| o-Xylene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| sec-Butylbenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Styrene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Tert-amyl methyl ether | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Tert-Butanol | ND | 180 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| tert-Butylbenzene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Tetrachloroethene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Toluene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| trans-1,2-Dichloroethene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Trichloroethene | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Trichlorofluoromethane | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Vinyl chloride | ND | 9.0 | µg/Kg | 1 | 8/16/2011 02:29 AM | | |
| Surr: 1,2-Dichloroethane-d4 | 87.2 | 65-141 | %REC | 1 | 8/16/2011 02:29 AM | | |
| Surr: 4-Bromofluorobenzene | 85.8 | 57-134 | %REC | 1 | 8/16/2011 02:29 AM | | |
| Surr: Dibromofluoromethane | 92.2 | 70-128 | %REC | 1 | 8/16/2011 02:29 AM | | |
| Surr: Toluene-d8 | 91.5 | 72-123 | %REC | 1 | 8/16/2011 02:29 AM | | |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Aug-11

CLIENT: Mactec **Client Sample ID:** E-126-GW
Lab Order: 119384 **Collection Date:** 8/11/2011 2:40:00 PM
Project: Metro Westside Extension, 4953101561 **Matrix:** GROUNDWATER
Lab ID: 119384-013A

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: MS2_110818A | QC Batch: Q11VW153 | PrepDate: | Analyst: BD | | |
|-----------------------------|--------------------|-----------|-------------|---|--------------------|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,1-Dichloroethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,1-Dichloroethene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,1-Dichloropropene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,2-Dibromoethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,2-Dichloroethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,2-Dichloropropane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,3-Dichloropropane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 1,4-Dichlorobenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 2,2-Dichloropropane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 2-Chlorotoluene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 4-Chlorotoluene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| 4-Isopropyltoluene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Benzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Bromobenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Bromoform | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Bromomethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Carbon tetrachloride | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Chlorobenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Chloroethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Chloroform | 0.60 | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Chloromethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 22-Aug-11

| | | | |
|-------------------|--------------------------------------|--------------------------|----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-126-GW |
| Lab Order: | 119384 | Collection Date: | 8/11/2011 2:40:00 PM |
| Project: | Metro Westside Extension, 4953101561 | Matrix: | GROUNDWATER |
| Lab ID: | 119384-013A | | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | | | |
|-----------------------------|--------------------|-----------|--------------------|---|--------------------|
| RunID: MS2_110818A | QC Batch: Q11VW153 | PrepDate: | Analyst: BD | | |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Di-isopropyl ether | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Dibromochloromethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Dibromomethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Dichlorodifluoromethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Ethyl tert-butyl ether | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Ethylbenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Hexachlorobutadiene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Isopropylbenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| m,p-Xylene | ND | 1.0 | µg/L | 1 | 8/18/2011 05:25 PM |
| Methylene chloride | ND | 1.0 | µg/L | 1 | 8/18/2011 05:25 PM |
| MTBE | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| n-Butylbenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| n-Propylbenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Naphthalene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| o-Xylene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| sec-Butylbenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Styrene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Tert-amyl methyl ether | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Tert-Butanol | ND | 10 | µg/L | 1 | 8/18/2011 05:25 PM |
| tert-Butylbenzene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Tetrachloroethene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Toluene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| trans-1,2-Dichloroethene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Trichloroethene | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Trichlorofluoromethane | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Vinyl chloride | ND | 0.50 | µg/L | 1 | 8/18/2011 05:25 PM |
| Surr: 1,2-Dichloroethane-d4 | 101 | 70-130 | %REC | 1 | 8/18/2011 05:25 PM |
| Surr: 4-Bromofluorobenzene | 98.4 | 70-130 | %REC | 1 | 8/18/2011 05:25 PM |
| Surr: Dibromofluoromethane | 96.8 | 70-130 | %REC | 1 | 8/18/2011 05:25 PM |
| Surr: Toluene-d8 | 92.8 | 70-130 | %REC | 1 | 8/18/2011 05:25 PM |

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



Advanced Technology
Laboratories

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

CLIENT: Mactec
Work Order: 119384
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

| Sample ID: MB-74967 | SampType: MBLK | TestCode: 6010_S | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135882 | | | | | | |
|----------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBS | Batch ID: 74967 | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 8/17/2011 | SeqNo: 2226294 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------|----|-----|--|--|--|--|--|--|--|--|--|
| Antimony | ND | 2.0 | | | | | | | | | |
| Arsenic | ND | 1.0 | | | | | | | | | |
| Barium | ND | 1.0 | | | | | | | | | |
| Beryllium | ND | 1.0 | | | | | | | | | |
| Cadmium | ND | 1.0 | | | | | | | | | |
| Chromium | ND | 1.0 | | | | | | | | | |
| Cobalt | ND | 1.0 | | | | | | | | | |
| Copper | ND | 2.0 | | | | | | | | | |
| Lead | ND | 1.0 | | | | | | | | | |
| Molybdenum | ND | 1.0 | | | | | | | | | |
| Nickel | ND | 1.0 | | | | | | | | | |
| Selenium | ND | 1.0 | | | | | | | | | |
| Silver | ND | 1.0 | | | | | | | | | |
| Thallium | ND | 1.0 | | | | | | | | | |
| Vanadium | ND | 1.0 | | | | | | | | | |
| Zinc | ND | 1.0 | | | | | | | | | |

| Sample ID: LCS-74967 | SampType: LCS | TestCode: 6010_S | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135882 | | | | | | |
|-----------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 74967 | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 8/17/2011 | SeqNo: 2226295 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-----------|--------|-----|-------|---|------|----|-----|--|--|--|--|
| Antimony | 47.649 | 2.0 | 50.00 | 0 | 95.3 | 80 | 120 | | | | |
| Arsenic | 47.241 | 1.0 | 50.00 | 0 | 94.5 | 80 | 120 | | | | |
| Barium | 48.799 | 1.0 | 50.00 | 0 | 97.6 | 80 | 120 | | | | |
| Beryllium | 48.168 | 1.0 | 50.00 | 0 | 96.3 | 80 | 120 | | | | |
| Cadmium | 47.486 | 1.0 | 50.00 | 0 | 95.0 | 80 | 120 | | | | |
| Chromium | 44.996 | 1.0 | 50.00 | 0 | 90.0 | 80 | 120 | | | | |
| Cobalt | 48.955 | 1.0 | 50.00 | 0 | 97.9 | 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: 119384
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

| Sample ID: LCS-74967 | | SampType: LCS | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 8/17/2011 | | RunNo: 135882 | | |
|-----------------------------|--------|------------------------|-----------|------------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: LCSS | | Batch ID: 74967 | | TestNo: EPA 6010B EPA 3050B | | | | Analysis Date: 8/17/2011 | | SeqNo: 2226295 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Copper | 48.807 | 2.0 | 50.00 | 0 | 97.6 | 80 | 120 | | | | | |
| Lead | 48.948 | 1.0 | 50.00 | 0 | 97.9 | 80 | 120 | | | | | |
| Molybdenum | 51.030 | 1.0 | 50.00 | 0 | 102 | 80 | 120 | | | | | |
| Nickel | 47.829 | 1.0 | 50.00 | 0 | 95.7 | 80 | 120 | | | | | |
| Selenium | 45.544 | 1.0 | 50.00 | 0 | 91.1 | 80 | 120 | | | | | |
| Silver | 48.144 | 1.0 | 50.00 | 0 | 96.3 | 80 | 120 | | | | | |
| Thallium | 47.070 | 1.0 | 50.00 | 0 | 94.1 | 80 | 120 | | | | | |
| Vanadium | 48.442 | 1.0 | 50.00 | 0 | 96.9 | 80 | 120 | | | | | |
| Zinc | 48.690 | 1.0 | 50.00 | 0 | 97.4 | 80 | 120 | | | | | |

| Sample ID: 119297-015A-MS | | SampType: MS | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 8/17/2011 | | RunNo: 135882 | | |
|----------------------------------|---------|------------------------|-----------|------------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: ZZZZZZ | | Batch ID: 74967 | | TestNo: EPA 6010B EPA 3050B | | | | Analysis Date: 8/17/2011 | | SeqNo: 2226297 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Antimony | 94.945 | 2.0 | 125.0 | 0.2939 | 75.7 | 32 | 105 | | | | | |
| Arsenic | 102.682 | 1.0 | 125.0 | 1.383 | 81.0 | 49 | 106 | | | | | |
| Barium | 162.464 | 1.0 | 125.0 | 59.09 | 82.7 | 31 | 133 | | | | | |
| Beryllium | 103.496 | 1.0 | 125.0 | 0 | 82.8 | 56 | 106 | | | | | |
| Cadmium | 97.177 | 1.0 | 125.0 | 0.8498 | 77.1 | 51 | 103 | | | | | |
| Chromium | 106.839 | 1.0 | 125.0 | 8.448 | 78.7 | 45 | 114 | | | | | |
| Cobalt | 109.113 | 1.0 | 125.0 | 3.916 | 84.2 | 52 | 106 | | | | | |
| Copper | 118.548 | 2.0 | 125.0 | 6.663 | 89.5 | 54 | 125 | | | | | |
| Lead | 106.293 | 1.0 | 125.0 | 4.707 | 81.3 | 34 | 126 | | | | | |
| Molybdenum | 105.089 | 1.0 | 125.0 | 0.5549 | 83.6 | 54 | 106 | | | | | |
| Nickel | 111.331 | 1.0 | 125.0 | 9.124 | 81.8 | 45 | 111 | | | | | |
| Selenium | 98.364 | 1.0 | 125.0 | 0 | 78.7 | 47 | 104 | | | | | |
| Silver | 105.481 | 1.0 | 125.0 | 0 | 84.4 | 56 | 112 | | | | | |
| Thallium | 97.613 | 1.0 | 125.0 | 0 | 78.1 | 46 | 101 | | | | | |
| Vanadium | 122.770 | 1.0 | 125.0 | 17.10 | 84.5 | 54 | 114 | | | | | |
| Zinc | 134.540 | 1.0 | 125.0 | 34.57 | 80.0 | 28 | 125 | | | | | |

Qualifiers:

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



CLIENT: Mactec
Work Order: 119384
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

| Sample ID: 119297-015A-MSD | | SampType: MSD | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 8/17/2011 | | RunNo: 135882 | |
|-----------------------------------|---------|------------------------|-----------|------------------------------------|------|---------------------------------|-----------|-----------------------------|-------|----------------------|------|
| Client ID: ZZZZZZ | | Batch ID: 74967 | | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 8/17/2011 | | SeqNo: 2226298 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Antimony | 93.745 | 2.0 | 125.0 | 0.2939 | 74.8 | 32 | 105 | 94.95 | 1.27 | 20 | |
| Arsenic | 101.068 | 1.0 | 125.0 | 1.383 | 79.7 | 49 | 106 | 102.7 | 1.58 | 20 | |
| Barium | 163.866 | 1.0 | 125.0 | 59.09 | 83.8 | 31 | 133 | 162.5 | 0.860 | 20 | |
| Beryllium | 100.542 | 1.0 | 125.0 | 0 | 80.4 | 56 | 106 | 103.5 | 2.90 | 20 | |
| Cadmium | 96.231 | 1.0 | 125.0 | 0.8498 | 76.3 | 51 | 103 | 97.18 | 0.978 | 20 | |
| Chromium | 105.721 | 1.0 | 125.0 | 8.448 | 77.8 | 45 | 114 | 106.8 | 1.05 | 20 | |
| Cobalt | 108.061 | 1.0 | 125.0 | 3.916 | 83.3 | 52 | 106 | 109.1 | 0.968 | 20 | |
| Copper | 117.823 | 2.0 | 125.0 | 6.663 | 88.9 | 54 | 125 | 118.5 | 0.613 | 20 | |
| Lead | 104.105 | 1.0 | 125.0 | 4.707 | 79.5 | 34 | 126 | 106.3 | 2.08 | 20 | |
| Molybdenum | 105.724 | 1.0 | 125.0 | 0.5549 | 84.1 | 54 | 106 | 105.1 | 0.603 | 20 | |
| Nickel | 109.941 | 1.0 | 125.0 | 9.124 | 80.7 | 45 | 111 | 111.3 | 1.26 | 20 | |
| Selenium | 96.995 | 1.0 | 125.0 | 0 | 77.6 | 47 | 104 | 98.36 | 1.40 | 20 | |
| Silver | 104.433 | 1.0 | 125.0 | 0 | 83.5 | 56 | 112 | 105.5 | 0.998 | 20 | |
| Thallium | 95.917 | 1.0 | 125.0 | 0 | 76.7 | 46 | 101 | 97.61 | 1.75 | 20 | |
| Vanadium | 122.413 | 1.0 | 125.0 | 17.10 | 84.3 | 54 | 114 | 122.8 | 0.291 | 20 | |
| Zinc | 132.354 | 1.0 | 125.0 | 34.57 | 78.2 | 28 | 125 | 134.5 | 1.64 | 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: 119384
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-74969 | SampType: MBLK | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135903 | | | | | | |
| Client ID: PBS | Batch ID: 74969 | TestNo: EPA 7471A | | Analysis Date: 8/17/2011 | SeqNo: 2226838 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury ND 0.10

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-74969 | SampType: LCS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135903 | | | | | | |
| Client ID: LCSS | Batch ID: 74969 | TestNo: EPA 7471A | | Analysis Date: 8/17/2011 | SeqNo: 2226839 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.817 0.10 0.8300 0 98.4 80 120

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119415-020A-MS | SampType: MS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135903 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: 74969 | TestNo: EPA 7471A | | Analysis Date: 8/17/2011 | SeqNo: 2226840 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.793 0.10 0.8300 0.05109 89.3 70 130

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119415-020A-MSD | SampType: MSD | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135903 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: 74969 | TestNo: EPA 7471A | | Analysis Date: 8/17/2011 | SeqNo: 2226841 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.835 0.10 0.8300 0.05109 94.5 70 130 0.7926 5.26 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: 119384
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| Sample ID: T110815LCS2 | | SampType: LCS | | TestCode: 8260_S_5035 Units: µg/Kg | | Prep Date: | | RunNo: 135827 | | | |
|-------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: T11VS149 | | TestNo: EPA 8260B | | Analysis Date: 8/15/2011 | | SeqNo: 2226876 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 43.500 | 5.0 | 50.00 | 0 | 87.0 | 70 | 130 | | | | |
| Benzene | 94.170 | 5.0 | 100.0 | 0 | 94.2 | 70 | 130 | | | | |
| Chlorobenzene | 52.520 | 5.0 | 50.00 | 0 | 105 | 70 | 130 | | | | |
| MTBE | 50.510 | 5.0 | 50.00 | 0 | 101 | 70 | 130 | | | | |
| Toluene | 99.060 | 5.0 | 100.0 | 0 | 99.1 | 70 | 130 | | | | |
| Trichloroethene | 49.130 | 5.0 | 50.00 | 0 | 98.3 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 42.910 | | 50.00 | | 85.8 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 43.650 | | 50.00 | | 87.3 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 50.260 | | 50.00 | | 101 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 48.580 | | 50.00 | | 97.2 | 72 | 123 | | | | |

| Sample ID: T110815MB2MS | | SampType: MS | | TestCode: 8260_S_5035 Units: µg/Kg | | Prep Date: | | RunNo: 135827 | | | |
|--------------------------------|---------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: ZZZZZ | | Batch ID: T11VS149 | | TestNo: EPA 8260B | | Analysis Date: 8/15/2011 | | SeqNo: 2226878 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 42.290 | 5.0 | 50.00 | 0 | 84.6 | 70 | 130 | | | | |
| Benzene | 95.890 | 5.0 | 100.0 | 0 | 95.9 | 70 | 130 | | | | |
| Chlorobenzene | 54.270 | 5.0 | 50.00 | 0 | 109 | 70 | 130 | | | | |
| MTBE | 49.700 | 5.0 | 50.00 | 0 | 99.4 | 70 | 130 | | | | |
| Toluene | 100.960 | 5.0 | 100.0 | 0 | 101 | 70 | 130 | | | | |
| Trichloroethene | 51.630 | 5.0 | 50.00 | 0 | 103 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 43.020 | | 50.00 | | 86.0 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 43.090 | | 50.00 | | 86.2 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 48.220 | | 50.00 | | 96.4 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 47.070 | | 50.00 | | 94.1 | 72 | 123 | | | | |

| Sample ID: T110815MB2MSD | | SampType: MSD | | TestCode: 8260_S_5035 Units: µg/Kg | | Prep Date: | | RunNo: 135827 | | | |
|---------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: ZZZZZ | | Batch ID: T11VS149 | | TestNo: EPA 8260B | | Analysis Date: 8/15/2011 | | SeqNo: 2226879 | | | |
| 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: 119384
 Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| Sample ID: T110815MB2MSD | | SampType: MSD | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135827 | |
|-----------------------------|--------|--------------------|-----------|-----------------------|------|--------------------------|-----------|-------------|------|----------------|------|
| Client ID: ZZZZZZ | | Batch ID: T11VS149 | | TestNo: EPA 8260B | | Analysis Date: 8/15/2011 | | | | SeqNo: 2226879 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 42.940 | 5.0 | 50.00 | 0 | 85.9 | 70 | 130 | 42.29 | 1.53 | 20 | |
| Benzene | 92.820 | 5.0 | 100.0 | 0 | 92.8 | 70 | 130 | 95.89 | 3.25 | 20 | |
| Chlorobenzene | 51.300 | 5.0 | 50.00 | 0 | 103 | 70 | 130 | 54.27 | 5.63 | 20 | |
| MTBE | 48.040 | 5.0 | 50.00 | 0 | 96.1 | 70 | 130 | 49.70 | 3.40 | 20 | |
| Toluene | 99.230 | 5.0 | 100.0 | 0 | 99.2 | 70 | 130 | 101.0 | 1.73 | 20 | |
| Trichloroethene | 48.220 | 5.0 | 50.00 | 0 | 96.4 | 70 | 130 | 51.63 | 6.83 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 42.390 | | 50.00 | | 84.8 | 65 | 141 | | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 44.690 | | 50.00 | | 89.4 | 57 | 134 | | 0 | 0 | |
| Surr: Dibromofluoromethane | 47.900 | | 50.00 | | 95.8 | 70 | 128 | | 0 | 0 | |
| Surr: Toluene-d8 | 48.130 | | 50.00 | | 96.3 | 72 | 123 | | 0 | 0 | |

| Sample ID: T110815MB2 | | SampType: MBLK | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135827 | |
|-----------------------------|--------|--------------------|-----------|-----------------------|------|--------------------------|-----------|-------------|------|----------------|------|
| Client ID: PBS | | Batch ID: T11VS149 | | TestNo: EPA 8260B | | Analysis Date: 8/15/2011 | | | | SeqNo: 2226880 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 5.0 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 5.0 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 10 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 5.0 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | | | | | | | | | |

Qualifiers:

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



CLIENT: Mactec
Work Order: 119384
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| Sample ID: T110815MB2 | SampType: MBLK | TestCode: 8260_S_5035 | Units: µg/Kg | Prep Date: | RunNo: 135827 | | | | | | |
|------------------------------|---------------------------|------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBS | Batch ID: T11VS149 | TestNo: EPA 8260B | | Analysis Date: 8/15/2011 | SeqNo: 2226880 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,2-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | | | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 5.0 | | | | | | | | | |
| Benzene | ND | 5.0 | | | | | | | | | |
| Bromobenzene | ND | 5.0 | | | | | | | | | |
| Bromodichloromethane | ND | 5.0 | | | | | | | | | |
| Bromoform | ND | 5.0 | | | | | | | | | |
| Bromomethane | ND | 5.0 | | | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | | | | | | | | | |
| Chlorobenzene | ND | 5.0 | | | | | | | | | |
| Chloroethane | ND | 5.0 | | | | | | | | | |
| Chloroform | ND | 5.0 | | | | | | | | | |
| Chloromethane | ND | 5.0 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 5.0 | | | | | | | | | |
| Di-isopropyl ether | ND | 5.0 | | | | | | | | | |
| Dibromochloromethane | ND | 5.0 | | | | | | | | | |
| Dibromomethane | ND | 5.0 | | | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | | | | | | | | | |
| Ethyl Tert-butyl ether | ND | 5.0 | | | | | | | | | |
| Ethylbenzene | ND | 5.0 | | | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | | | | | | | | | |
| Isopropylbenzene | ND | 5.0 | | | | | | | | | |
| m,p-Xylene | ND | 10 | | | | | | | | | |

Qualifiers:

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



CLIENT: Mactec
Work Order: 119384
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| Sample ID: T110815MB2 | | SampType: MBLK | | TestCode: 8260_S_5035 Units: µg/Kg | | Prep Date: | | RunNo: 135827 | | | |
|------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: PBS | | Batch ID: T11VS149 | | TestNo: EPA 8260B | | Analysis Date: 8/15/2011 | | SeqNo: 2226880 | | | |
| 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 | 42.510 | | 50.00 | | 85.0 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 42.600 | | 50.00 | | 85.2 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 46.800 | | 50.00 | | 93.6 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 47.110 | | 50.00 | | 94.2 | 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 | |



CLIENT: Mactec
Work Order: 119384
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| Sample ID: Q110818LCS1 | | SampType: LCS | | TestCode: 8260_WP_LL Units: µg/L | | Prep Date: | | RunNo: 135939 | | | |
|-------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSW | | Batch ID: Q11VW153 | | TestNo: EPA 8260B | | Analysis Date: 8/18/2011 | | SeqNo: 2227552 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 17.260 | 0.50 | 20.00 | 0 | 86.3 | 70 | 130 | | | | |
| Benzene | 37.510 | 0.50 | 40.00 | 0 | 93.8 | 70 | 130 | | | | |
| Chlorobenzene | 19.830 | 0.50 | 20.00 | 0 | 99.2 | 70 | 130 | | | | |
| MTBE | 21.000 | 0.50 | 20.00 | 0 | 105 | 70 | 130 | | | | |
| Toluene | 39.950 | 0.50 | 40.00 | 0 | 99.9 | 70 | 130 | | | | |
| Trichloroethene | 19.370 | 0.50 | 20.00 | 0 | 96.9 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 23.740 | | 25.00 | | 95.0 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 23.980 | | 25.00 | | 95.9 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 23.220 | | 25.00 | | 92.9 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 24.040 | | 25.00 | | 96.2 | 70 | 130 | | | | |

| Sample ID: Q110818MB3MS | | SampType: MS | | TestCode: 8260_WP_LL Units: µg/L | | Prep Date: | | RunNo: 135939 | | | |
|--------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: ZZZZZ | | Batch ID: Q11VW153 | | TestNo: EPA 8260B | | Analysis Date: 8/18/2011 | | SeqNo: 2227553 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 16.750 | 0.50 | 20.00 | 0 | 83.8 | 70 | 130 | | | | |
| Benzene | 37.400 | 0.50 | 40.00 | 0 | 93.5 | 70 | 130 | | | | |
| Chlorobenzene | 20.320 | 0.50 | 20.00 | 0 | 102 | 70 | 130 | | | | |
| MTBE | 21.300 | 0.50 | 20.00 | 0 | 106 | 70 | 130 | | | | |
| Toluene | 40.290 | 0.50 | 40.00 | 0 | 101 | 70 | 130 | | | | |
| Trichloroethene | 19.000 | 0.50 | 20.00 | 0 | 95.0 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 23.330 | | 25.00 | | 93.3 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 24.300 | | 25.00 | | 97.2 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 22.650 | | 25.00 | | 90.6 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 23.720 | | 25.00 | | 94.9 | 70 | 130 | | | | |

| Sample ID: Q110818MB3MSD | | SampType: MSD | | TestCode: 8260_WP_LL Units: µg/L | | Prep Date: | | RunNo: 135939 | | | |
|---------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: ZZZZZ | | Batch ID: Q11VW153 | | TestNo: EPA 8260B | | Analysis Date: 8/18/2011 | | SeqNo: 2227554 | | | |
| 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: 119384
 Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| Sample ID: Q110818MB3MSD | | SampType: MSD | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 135939 | |
|---------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: Q11VW153 | | TestNo: EPA 8260B | | Analysis Date: 8/18/2011 | | | | SeqNo: 2227554 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 17.650 | 0.50 | 20.00 | 0 | 88.2 | 70 | 130 | 16.75 | 5.23 | 20 | |
| Benzene | 38.860 | 0.50 | 40.00 | 0 | 97.2 | 70 | 130 | 37.40 | 3.83 | 20 | |
| Chlorobenzene | 20.950 | 0.50 | 20.00 | 0 | 105 | 70 | 130 | 20.32 | 3.05 | 20 | |
| MTBE | 22.320 | 0.50 | 20.00 | 0 | 112 | 70 | 130 | 21.30 | 4.68 | 20 | |
| Toluene | 41.120 | 0.50 | 40.00 | 0 | 103 | 70 | 130 | 40.29 | 2.04 | 20 | |
| Trichloroethene | 20.160 | 0.50 | 20.00 | 0 | 101 | 70 | 130 | 19.00 | 5.92 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 23.180 | | 25.00 | | 92.7 | 70 | 130 | | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 23.940 | | 25.00 | | 95.8 | 70 | 130 | | 0 | 0 | |
| Surr: Dibromofluoromethane | 22.680 | | 25.00 | | 90.7 | 70 | 130 | | 0 | 0 | |
| Surr: Toluene-d8 | 23.490 | | 25.00 | | 94.0 | 70 | 130 | | 0 | 0 | |

| Sample ID: Q110818MB3 | | SampType: MBLK | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 135939 | |
|------------------------------|--------|---------------------------|-----------|-----------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: PBW | | Batch ID: Q11VW153 | | TestNo: EPA 8260B | | Analysis Date: 8/18/2011 | | | | SeqNo: 2227555 | |
| 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: 119384
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| Sample ID: Q110818MB3 | | SampType: MBLK | | TestCode: 8260_WP_LL Units: µg/L | | Prep Date: | | RunNo: 135939 | | | |
|------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: PBW | | Batch ID: Q11VW153 | | TestNo: EPA 8260B | | Analysis Date: 8/18/2011 | | SeqNo: 2227555 | | | |
| 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 | |



CLIENT: Mactec
Work Order: 119384
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| Sample ID: Q110818MB3 | | SampType: MBLK | | TestCode: 8260_WP_LL Units: µg/L | | Prep Date: | | RunNo: 135939 | | | |
|------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: PBW | | Batch ID: Q11VW153 | | TestNo: EPA 8260B | | Analysis Date: 8/18/2011 | | SeqNo: 2227555 | | | |
| 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 | 26.590 | | 25.00 | | 106 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 24.400 | | 25.00 | | 97.6 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 25.160 | | 25.00 | | 101 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 23.150 | | 25.00 | | 92.6 | 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 | |



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: [Signature] Date: 8/13/11

Method of Transport:
 Client ATL
 FedEx OnTrac
 GSO
 Other: _____

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

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

Client: MATEC
 Attn: Matt Fraychinead
 Address: 5628 C. Slavons Ave State: CA Zip Code: 90040 TEL: 323-889-5300
 City: LA

Project Name: Metro Westside Extension Project #: 4953101561 Sampler: PAUL KANE (Printed Name)
 Relinquished by: (Signature and Printed Name) [Signature] Date: 8/12/11 Time: 0700 Received by: (Signature and Printed Name) Matt Fraychinead Date: 8/12/11 Time: 0700
 Relinquished by: (Signature and Printed Name) [Signature] Date: 8/12/11 Time: 1145 Received by: (Signature and Printed Name) [Signature] Date: 8/12/11 Time: 1145
 Relinquished by: (Signature and Printed Name) [Signature] Date: 8/12/11 Time: 1335 Received by: (Signature and Printed Name) [Signature] Date: 8/12/11 Time: 1335

Special Instructions/Comments:
[Handwritten notes]

I hereby authorize ATL to perform the work indicated below:
 Project Mgr / Submitter: Matt Fraychinead
 Print Name: Matt Fraychinead Date: 8/12/11
 Signature: [Signature]

Bill To:
 Attn: _____
 Co: _____
 Addr: _____
 City: _____ State: _____ Zip: _____

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

| ITEM | LAB USE ONLY: | | Sample Description | Sample I.D. / Location | Date | Time |
|------|---------------|---------|--------------------|------------------------|------|------|
| | Batch #: | Lab No. | | | | |
| | 119384 | 001 | E-126-10' | -81111 | 1008 | |
| | | 2 | E-126-15' | | 1012 | |
| | | 3 | E-126-20' | | 1020 | |
| | | 4 | E-126-25' | | 1025 | |
| | | 5 | E-126-30' | | 1035 | |
| | | 6 | E-126-35' | | 1105 | |
| | | 7 | E-126-45' | | 1020 | |
| | | 8 | E-126-50' | | 1038 | |
| | | 9 | E-126-55' | | 1300 | |
| | | 10 | E-126-60' | | 1317 | |

Circle or Add Analysis(es) Requested:
 808A (Pesticides) X
 8260B (PCB) X
 8270C (Votiles) + Oxy
 6010B (Total Metal) X
 6045B (GRO) (Total Hex) X
 6045B (GRO) (Total Hex) X
 TITLE 22 / CAM 17 (6010 / 7000) X

Specify Appropriate Matrix:
 SEDIMENT X
 SOIL X
 DRINKING WATER X
 GROUND WATER X
 WASTEWATER X
 STOMACH WATER X
 AQUEOUS X

Container(s) Type:
 1 T
 7 T V
 1 T
 1 T
 7 T V
 1 T
 7 T V
 1 T

QA/QC:
 RTNE
 CT
 Legal
 SWRCB
 Logcode
 OTHER: Hold
 REMARKS: Hold
Hold
Hold
Hold
Hold
Hold

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

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

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

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

Figure I-1.924

CHAIN OF CUSTODY RECORD

| | | | |
|---|--|--|--|
| ADVANCED TECHNOLOGY LABORATORIES 3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040 | P.O.#: <u>201106374</u> Quote #: <u>4716</u> Logged By: _____ Date: <u>8/13/11</u> NOTE: Please include your Quote No. to ensure proper pricing of your project. | FOR LABORATORY USE ONLY: Method of Transport <input type="checkbox"/> Client <input checked="" type="checkbox"/> ATL <input type="checkbox"/> FedEx <input type="checkbox"/> OnTrac <input type="checkbox"/> GSO <input type="checkbox"/> Other: _____ | Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/> |
|---|--|--|--|

| | |
|--|--|
| Client: <u>MACTEC</u> Attn: <u>Math Fraychineaud</u> Address: <u>5628 E. Slawson Ave</u> City: <u>LA</u> State: <u>CA</u> Zip Code: <u>90040</u> TEL: <u>323-889-5300</u> FAX: _____ | Project Name: <u>metco westside Extensions</u> Sampler: <u>Paul Kane</u> Project #: <u>4953101561</u> Date: <u>8/12/11</u> Time: <u>0700</u> Relinquished by: (Signature and Printed Name) <u>Math Fraychineaud</u> Date: <u>8/12/11</u> Time: <u>1145</u> Relinquished by: (Signature and Printed Name) <u>Math Fraychineaud</u> Date: <u>8/12/11</u> Time: <u>1335</u> Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ |
|--|--|

I hereby authorize ATL to perform the work indicated below:

Project Mgr / Submitter: Math Fraychineaud Date: 8/12/11

Print Name: Math Fraychineaud Signature: _____

Bill To: _____ Attn: _____ Co: _____ Address: _____ City: _____ State: _____ Zip: _____

Special Instructions/Comments: _____

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: Batch #: | Lab No. | Sample I.D. / Location | Date | Time | SPECIFY APPROPRIATE MATRIX | | PRESERVATION | | QA/QC | REMARKS |
|---------------------------|---------|------------------------|---------|------|----------------------------|-------|--------------|------|-------|----------------|
| | | | | | Container(s) | TAT # | Type | RTNE | | |
| 19380 | -11 | E-126-65' | 8/11/11 | 1343 | | 1 | T | | | Hold |
| | -12 | E-126-70' | | 1415 | | 7 | T | V | | NaHSO4 MeOH |
| | -13 | E-126-6W | | 1440 | | 6 | G | V | H | |
| | -14 | E-126-75' | | 1510 | | 1 | T | | | Hold |

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

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

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

Figure I-1.925

August 26, 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.: 119468

RE: Metro Westside Extension, 4953101561

Attention: Matt Fraychineaud

Enclosed are the results for sample(s) received on August 19, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Eddie F. Rodriguez
Laboratory Director

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



CLIENT: Mactec
Project: Metro Westside Extension, 4953101561
Lab Order: 119468

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

The date of collection for all samples were taken from the sample container labels.

Analytical Comments for EPA 6010B

Samples 119477-045A-MS and 119477-045A-MSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 26-Aug-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-127-120' |
| Lab Order: 119468 | Collection Date: 8/18/2011 1:00:00 PM |
| Project: Metro Westside Extension, 4953101561 | Matrix: SOIL |
| Lab ID: 119468-005A | |

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

ICP METALS

EPA 3050B

EPA 6010B

| | | | | | | |
|---------------------|-----------------|-----|--|---------------------|--------------------|--------------------|
| RunID: ICP8_110824B | QC Batch: 75071 | | | PrepDate: 8/24/2011 | Analyst: IL | |
| Antimony | ND | 2.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Arsenic | 6.4 | 1.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Barium | 62 | 1.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Beryllium | ND | 1.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Cadmium | ND | 1.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Chromium | 22 | 1.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Cobalt | 6.8 | 1.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Copper | 16 | 2.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Lead | 3.2 | 1.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Molybdenum | ND | 1.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Nickel | 16 | 1.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Selenium | ND | 1.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Silver | ND | 1.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Thallium | ND | 1.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Vanadium | 35 | 1.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |
| Zinc | 59 | 1.0 | | mg/Kg | 1 | 8/24/2011 11:49 AM |

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

LUFT

EPA 8015B(M)

| | | | | | | |
|---------------------|-----------------|--------|--|---------------------|---------------------|--------------------|
| RunID: GC16_110822A | QC Batch: 75034 | | | PrepDate: 8/22/2011 | Analyst: CBR | |
| DRO | ND | 10 | | mg/Kg | 1 | 8/22/2011 12:08 PM |
| ORO | ND | 10 | | mg/Kg | 1 | 8/22/2011 12:08 PM |
| Surr: p-Terphenyl | 79.1 | 63-152 | | %REC | 1 | 8/22/2011 12:08 PM |

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

| | | | | | | |
|--------------------|-----------------|------|--|---------------------|--------------------|--------------------|
| RunID: AA1_110824B | QC Batch: 75060 | | | PrepDate: 8/24/2011 | Analyst: VV | |
| Mercury | ND | 0.10 | | mg/Kg | 1 | 8/24/2011 11:24 AM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 26-Aug-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-127-120' |
| Lab Order: 119468 | Collection Date: 8/18/2011 1:00:00 PM |
| Project: Metro Westside Extension, 4953101561 | Matrix: SOIL |
| Lab ID: 119468-005B | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | |
|--------------------|--------------------|---------------------|--------------|
| RunID: MS5_110822A | QC Batch: T11VS154 | PrepDate: 8/18/2011 | Analyst: DDL |
|--------------------|--------------------|---------------------|--------------|

| Compound | Result | PQL | Qual | Units | DF | Date Analyzed |
|-----------------------------|--------|-----|------|-------|----|--------------------|
| 1,1,1,2-Tetrachloroethane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,1,1-Trichloroethane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,1,2,2-Tetrachloroethane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,1,2-Trichloroethane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,1-Dichloroethane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,1-Dichloroethene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,1-Dichloropropene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,2,3-Trichlorobenzene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,2,3-Trichloropropane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,2,4-Trichlorobenzene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,2,4-Trimethylbenzene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,2-Dibromo-3-chloropropane | ND | 18 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,2-Dibromoethane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,2-Dichlorobenzene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,2-Dichloroethane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,2-Dichloropropane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,3,5-Trimethylbenzene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,3-Dichlorobenzene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,3-Dichloropropane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 1,4-Dichlorobenzene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 2,2-Dichloropropane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 2-Chlorotoluene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 4-Chlorotoluene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| 4-Isopropyltoluene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Benzene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Bromobenzene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Bromodichloromethane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Bromoform | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Bromomethane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Carbon tetrachloride | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Chlorobenzene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Chloroethane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Chloroform | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Chloromethane | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |
| cis-1,2-Dichloroethene | ND | 9.1 | | µg/Kg | 1 | 8/22/2011 05:25 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 26-Aug-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-127-120' |
| Lab Order: 119468 | Collection Date: 8/18/2011 1:00:00 PM |
| Project: Metro Westside Extension, 4953101561 | Matrix: SOIL |
| Lab ID: 119468-005B | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | | | |
|-----------------------------|--------------------|---------------------|--------------|---|--------------------|
| RunID: MS5_110822A | QC Batch: T11VS154 | PrepDate: 8/18/2011 | Analyst: DDL | | |
| cis-1,3-Dichloropropene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Di-isopropyl ether | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Dibromochloromethane | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Dibromomethane | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Dichlorodifluoromethane | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Ethyl Tert-butyl ether | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Ethylbenzene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Hexachlorobutadiene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Isopropylbenzene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| m,p-Xylene | ND | 18 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Methylene chloride | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| MTBE | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| n-Butylbenzene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| n-Propylbenzene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Naphthalene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| o-Xylene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| sec-Butylbenzene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Styrene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Tert-amyl methyl ether | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Tert-Butanol | ND | 180 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| tert-Butylbenzene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Tetrachloroethene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Toluene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| trans-1,2-Dichloroethene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Trichloroethene | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Trichlorofluoromethane | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Vinyl chloride | ND | 9.1 | µg/Kg | 1 | 8/22/2011 05:25 PM |
| Surr: 1,2-Dichloroethane-d4 | 106 | 65-141 | %REC | 1 | 8/22/2011 05:25 PM |
| Surr: 4-Bromofluorobenzene | 89.7 | 57-134 | %REC | 1 | 8/22/2011 05:25 PM |
| Surr: Dibromofluoromethane | 111 | 70-128 | %REC | 1 | 8/22/2011 05:25 PM |
| Surr: Toluene-d8 | 97.4 | 72-123 | %REC | 1 | 8/22/2011 05:25 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 26-Aug-11

| | | | |
|-------------------|--------------------------------------|--------------------------|----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-127-120' |
| Lab Order: | 119468 | Collection Date: | 8/18/2011 1:00:00 PM |
| Project: | Metro Westside Extension, 4953101561 | Matrix: | SOIL |
| Lab ID: | 119468-005E | | |

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

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

| | | | | | |
|--------------------------------|--------------------|---------------------|--------------------|---|--------------------|
| RunID: GC2_110824A | QC Batch: E11VS307 | PrepDate: 8/18/2011 | Analyst: TP | | |
| GRO | ND | 0.81 | mg/Kg | 1 | 8/24/2011 12:02 PM |
| Surr: Bromofluorobenzene (FID) | 114 | 51-161 | %REC | 1 | 8/24/2011 12:02 PM |

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



*Advanced Technology
 Laboratories*

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

Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 26-Aug-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-127-125' |
| Lab Order: 119468 | Collection Date: 8/18/2011 1:10:00 PM |
| Project: Metro Westside Extension, 4953101561 | Matrix: SOIL |
| Lab ID: 119468-006A | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|-----------------|--------|------|---------------------|----|---------------------|
| DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID | | | | | | |
| | LUFT | | | EPA 8015B(M) | | |
| RunID: GC16_110822A | QC Batch: 75034 | | | PrepDate: 8/22/2011 | | Analyst: CBR |
| DRO | ND | 10 | | mg/Kg | 1 | 8/22/2011 12:18 PM |
| ORO | ND | 10 | | mg/Kg | 1 | 8/22/2011 12:18 PM |
| Surr: p-Terphenyl | 79.0 | 63-152 | | %REC | 1 | 8/22/2011 12:18 PM |

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



*Advanced Technology
 Laboratories*

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 26-Aug-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-127-125' |
| Lab Order: 119468 | Collection Date: 8/18/2011 1:10:00 PM |
| Project: Metro Westside Extension, 4953101561 | Matrix: SOIL |
| Lab ID: 119468-006B | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | |
|--------------------|--------------------|---------------------|--------------|
| RunID: MS5_110822A | QC Batch: T11VS154 | PrepDate: 8/18/2011 | Analyst: DDL |
|--------------------|--------------------|---------------------|--------------|

| | | | | | |
|-----------------------------|----|-----|-------|---|--------------------|
| 1,1,1,2-Tetrachloroethane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,1,1-Trichloroethane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,1,2,2-Tetrachloroethane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,1,2-Trichloroethane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,1-Dichloroethane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,1-Dichloroethene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,1-Dichloropropene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,2,3-Trichlorobenzene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,2,3-Trichloropropane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,2,4-Trichlorobenzene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,2,4-Trimethylbenzene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,2-Dibromo-3-chloropropane | ND | 9.4 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,2-Dibromoethane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,2-Dichlorobenzene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,2-Dichloroethane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,2-Dichloropropane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,3,5-Trimethylbenzene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,3-Dichlorobenzene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,3-Dichloropropane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 1,4-Dichlorobenzene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 2,2-Dichloropropane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 2-Chlorotoluene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 4-Chlorotoluene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| 4-Isopropyltoluene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| Benzene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| Bromobenzene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| Bromodichloromethane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| Bromoform | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| Bromomethane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| Carbon tetrachloride | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| Chlorobenzene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| Chloroethane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| Chloroform | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| Chloromethane | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |
| cis-1,2-Dichloroethene | ND | 4.7 | µg/Kg | 1 | 8/22/2011 05:43 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 26-Aug-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-127-125' |
| Lab Order: 119468 | Collection Date: 8/18/2011 1:10:00 PM |
| Project: Metro Westside Extension, 4953101561 | Matrix: SOIL |
| Lab ID: 119468-006B | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | |
|-----------------------------|--------------------|---------------------|----------------------------|
| RunID: MS5_110822A | QC Batch: T11VS154 | PrepDate: 8/18/2011 | Analyst: DDL |
| cis-1,3-Dichloropropene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Di-isopropyl ether | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Dibromochloromethane | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Dibromomethane | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Dichlorodifluoromethane | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Ethyl Tert-butyl ether | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Ethylbenzene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Hexachlorobutadiene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Isopropylbenzene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| m,p-Xylene | ND | 9.4 | µg/Kg 1 8/22/2011 05:43 PM |
| Methylene chloride | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| MTBE | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| n-Butylbenzene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| n-Propylbenzene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Naphthalene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| o-Xylene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| sec-Butylbenzene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Styrene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Tert-amyl methyl ether | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Tert-Butanol | ND | 94 | µg/Kg 1 8/22/2011 05:43 PM |
| tert-Butylbenzene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Tetrachloroethene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Toluene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| trans-1,2-Dichloroethene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Trichloroethene | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Trichlorofluoromethane | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Vinyl chloride | ND | 4.7 | µg/Kg 1 8/22/2011 05:43 PM |
| Surr: 1,2-Dichloroethane-d4 | 104 | 65-141 | %REC 1 8/22/2011 05:43 PM |
| Surr: 4-Bromofluorobenzene | 90.7 | 57-134 | %REC 1 8/22/2011 05:43 PM |
| Surr: Dibromofluoromethane | 109 | 70-128 | %REC 1 8/22/2011 05:43 PM |
| Surr: Toluene-d8 | 96.4 | 72-123 | %REC 1 8/22/2011 05:43 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: 26-Aug-11

| | | | |
|-------------------|--------------------------------------|--------------------------|----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-127-125' |
| Lab Order: | 119468 | Collection Date: | 8/18/2011 1:10:00 PM |
| Project: | Metro Westside Extension, 4953101561 | Matrix: | SOIL |
| Lab ID: | 119468-006E | | |

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

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

| | | | | | |
|--------------------------------|--------------------|---------------------|--------------------|---|--------------------|
| RunID: GC2_110824A | QC Batch: E11VS307 | PrepDate: 8/18/2011 | Analyst: TP | | |
| GRO | ND | 0.81 | mg/Kg | 1 | 8/24/2011 12:18 PM |
| Surr: Bromofluorobenzene (FID) | 129 | 51-161 | %REC | 1 | 8/24/2011 12:18 PM |

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



*Advanced Technology
Laboratories*

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

Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 26-Aug-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-127-130' |
| Lab Order: 119468 | Collection Date: 8/18/2011 1:20:00 PM |
| Project: Metro Westside Extension, 4953101561 | Matrix: SOIL |
| Lab ID: 119468-007A | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|-----------------|--------|------|---------------------|----|---------------------|
| DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID | | | | | | |
| | LUFT | | | EPA 8015B(M) | | |
| RunID: GC16_110822A | QC Batch: 75034 | | | PrepDate: 8/22/2011 | | Analyst: CBR |
| DRO | ND | 10 | | mg/Kg | 1 | 8/22/2011 12:28 PM |
| ORO | ND | 10 | | mg/Kg | 1 | 8/22/2011 12:28 PM |
| Surr: p-Terphenyl | 80.3 | 63-152 | | %REC | 1 | 8/22/2011 12:28 PM |

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



*Advanced Technology
 Laboratories*

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 26-Aug-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-127-130' |
| Lab Order: 119468 | Collection Date: 8/18/2011 1:20:00 PM |
| Project: Metro Westside Extension, 4953101561 | Matrix: SOIL |
| Lab ID: 119468-007B | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | |
|--------------------|--------------------|---------------------|--------------|
| RunID: MS5_110822A | QC Batch: T11VS154 | PrepDate: 8/18/2011 | Analyst: DDL |
|--------------------|--------------------|---------------------|--------------|

| Compound | Result | PQL | Qual | Units | DF | Date Analyzed |
|-----------------------------|--------|-----|------|-------|----|--------------------|
| 1,1,1,2-Tetrachloroethane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,1,1-Trichloroethane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,1,2,2-Tetrachloroethane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,1,2-Trichloroethane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,1-Dichloroethane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,1-Dichloroethene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,1-Dichloropropene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,2,3-Trichlorobenzene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,2,3-Trichloropropane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,2,4-Trichlorobenzene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,2,4-Trimethylbenzene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,2-Dibromo-3-chloropropane | ND | 8.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,2-Dibromoethane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,2-Dichlorobenzene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,2-Dichloroethane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,2-Dichloropropane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,3,5-Trimethylbenzene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,3-Dichlorobenzene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,3-Dichloropropane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 1,4-Dichlorobenzene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 2,2-Dichloropropane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 2-Chlorotoluene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 4-Chlorotoluene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| 4-Isopropyltoluene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Benzene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Bromobenzene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Bromodichloromethane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Bromoform | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Bromomethane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Carbon tetrachloride | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Chlorobenzene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Chloroethane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Chloroform | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Chloromethane | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |
| cis-1,2-Dichloroethene | ND | 4.1 | | µg/Kg | 1 | 8/22/2011 06:02 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 26-Aug-11

| | | | |
|-------------------|--------------------------------------|--------------------------|----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-127-130' |
| Lab Order: | 119468 | Collection Date: | 8/18/2011 1:20:00 PM |
| Project: | Metro Westside Extension, 4953101561 | Matrix: | SOIL |
| Lab ID: | 119468-007B | | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | | | |
|-----------------------------|--------------------|---------------------|--------------|---|--------------------|
| RunID: MS5_110822A | QC Batch: T11VS154 | PrepDate: 8/18/2011 | Analyst: DDL | | |
| cis-1,3-Dichloropropene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Di-isopropyl ether | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Dibromochloromethane | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Dibromomethane | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Dichlorodifluoromethane | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Ethyl Tert-butyl ether | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Ethylbenzene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Hexachlorobutadiene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Isopropylbenzene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| m,p-Xylene | ND | 8.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Methylene chloride | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| MTBE | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| n-Butylbenzene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| n-Propylbenzene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Naphthalene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| o-Xylene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| sec-Butylbenzene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Styrene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Tert-amyl methyl ether | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Tert-Butanol | ND | 81 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| tert-Butylbenzene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Tetrachloroethene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Toluene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| trans-1,2-Dichloroethene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Trichloroethene | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Trichlorofluoromethane | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Vinyl chloride | ND | 4.1 | µg/Kg | 1 | 8/22/2011 06:02 PM |
| Surr: 1,2-Dichloroethane-d4 | 103 | 65-141 | %REC | 1 | 8/22/2011 06:02 PM |
| Surr: 4-Bromofluorobenzene | 87.8 | 57-134 | %REC | 1 | 8/22/2011 06:02 PM |
| Surr: Dibromofluoromethane | 106 | 70-128 | %REC | 1 | 8/22/2011 06:02 PM |
| Surr: Toluene-d8 | 91.1 | 72-123 | %REC | 1 | 8/22/2011 06:02 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 26-Aug-11

| | | | |
|-------------------|--------------------------------------|--------------------------|----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-127-130' |
| Lab Order: | 119468 | Collection Date: | 8/18/2011 1:20:00 PM |
| Project: | Metro Westside Extension, 4953101561 | Matrix: | SOIL |
| Lab ID: | 119468-007E | | |

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

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

| | | | | | |
|--------------------------------|--------------------|---------------------|--------------------|---|--------------------|
| RunID: GC2_110824A | QC Batch: E11VS307 | PrepDate: 8/18/2011 | Analyst: TP | | |
| GRO | ND | 0.74 | mg/Kg | 1 | 8/24/2011 12:34 PM |
| Surr: Bromofluorobenzene (FID) | 125 | 51-161 | %REC | 1 | 8/24/2011 12:34 PM |

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



*Advanced Technology
 Laboratories*

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 26-Aug-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-127-GW |
| Lab Order: 119468 | Collection Date: 8/18/2011 2:55:00 PM |
| Project: Metro Westside Extension, 4953101561 | Matrix: GROUNDWATER |
| Lab ID: 119468-008A | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | |
|-----------------------------|--------------------|-----------|---------------------------|
| RunID: MS2_110822A | QC Batch: Q11VW159 | PrepDate: | Analyst: BD |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,1-Dichloroethane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,1-Dichloroethene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,1-Dichloropropene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,2-Dibromoethane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,2-Dichloroethane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,2-Dichloropropane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,3-Dichloropropane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 1,4-Dichlorobenzene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 2,2-Dichloropropane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 2-Chlorotoluene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 4-Chlorotoluene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| 4-Isopropyltoluene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| Benzene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| Bromobenzene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| Bromodichloromethane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| Bromoform | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| Bromomethane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| Carbon tetrachloride | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| Chlorobenzene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| Chloroethane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| Chloroform | 0.64 | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| Chloromethane | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | µg/L 1 8/22/2011 09:05 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 26-Aug-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-127-GW |
| Lab Order: 119468 | Collection Date: 8/18/2011 2:55:00 PM |
| Project: Metro Westside Extension, 4953101561 | Matrix: GROUNDWATER |
| Lab ID: 119468-008A | |

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| | | | | | |
|-----------------------------|--------------------|-----------|--------------------|---|--------------------|
| RunID: MS2_110822A | QC Batch: Q11VW159 | PrepDate: | Analyst: BD | | |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Di-isopropyl ether | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Dibromochloromethane | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Dibromomethane | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Dichlorodifluoromethane | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Ethyl tert-butyl ether | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Ethylbenzene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Hexachlorobutadiene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Isopropylbenzene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| m,p-Xylene | ND | 1.0 | µg/L | 1 | 8/22/2011 09:05 PM |
| Methylene chloride | ND | 1.0 | µg/L | 1 | 8/22/2011 09:05 PM |
| MTBE | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| n-Butylbenzene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| n-Propylbenzene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Naphthalene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| o-Xylene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| sec-Butylbenzene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Styrene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Tert-amyl methyl ether | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Tert-Butanol | ND | 10 | µg/L | 1 | 8/22/2011 09:05 PM |
| tert-Butylbenzene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Tetrachloroethene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Toluene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| trans-1,2-Dichloroethene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Trichloroethene | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Trichlorofluoromethane | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Vinyl chloride | ND | 0.50 | µg/L | 1 | 8/22/2011 09:05 PM |
| Surr: 1,2-Dichloroethane-d4 | 86.7 | 70-130 | %REC | 1 | 8/22/2011 09:05 PM |
| Surr: 4-Bromofluorobenzene | 98.3 | 70-130 | %REC | 1 | 8/22/2011 09:05 PM |
| Surr: Dibromofluoromethane | 90.2 | 70-130 | %REC | 1 | 8/22/2011 09:05 PM |
| Surr: Toluene-d8 | 87.8 | 70-130 | %REC | 1 | 8/22/2011 09:05 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 26-Aug-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-127-GW |
| Lab Order: 119468 | Collection Date: 8/18/2011 2:55:00 PM |
| Project: Metro Westside Extension, 4953101561 | Matrix: GROUNDWATER |
| Lab ID: 119468-008B | |

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

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

| | | | | | |
|--------------------------------|--------------------|-----------|--------------------|---|--------------------|
| RunID: GC19_110822A | QC Batch: M11VW162 | PrepDate: | Analyst: BB | | |
| GRO | ND | 0.20 | mg/L | 1 | 8/22/2011 02:23 PM |
| Surr: Bromofluorobenzene (FID) | 87.5 | 70-130 | %REC | 1 | 8/22/2011 02:23 PM |

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



*Advanced Technology
 Laboratories*

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

Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 26-Aug-11

| | |
|--|--|
| CLIENT: Mactec | Client Sample ID: E-127-GW |
| Lab Order: 119468 | Collection Date: 8/18/2011 2:55:00 PM |
| Project: Metro Westside Extension, 4953101561 | Matrix: GROUNDWATER |
| Lab ID: 119468-008C | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|------------------|--------|---------------------|---------------------|----|---------------------|
| DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID | | | | | | |
| | EPA 3510C | | EPA 8015B(M) | | | |
| RunID: GC16_110822B | QC Batch: 75038 | | | PrepDate: 8/22/2011 | | Analyst: CBR |
| DRO | 0.87 | 0.20 | | mg/L | 1 | 8/22/2011 03:08 PM |
| ORO | 1.1 | 0.20 | | mg/L | 1 | 8/22/2011 03:08 PM |
| Surr: p-Terphenyl | 86.4 | 36-126 | | %REC | 1 | 8/22/2011 03:08 PM |

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



*Advanced Technology
 Laboratories*

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

CLIENT: Mactec
Work Order: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

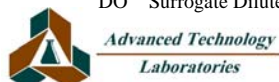
TestCode: 6010_S

| Sample ID: MB-75071 | SampType: MBLK | TestCode: 6010_S | Units: mg/Kg | Prep Date: 8/24/2011 | RunNo: 136028 | | | | | | |
|----------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBS | Batch ID: 75071 | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 8/24/2011 | SeqNo: 2229012 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Antimony | 0.269 | 2.0 | | | | | | | | | |
| Arsenic | ND | 1.0 | | | | | | | | | |
| Barium | ND | 1.0 | | | | | | | | | |
| Beryllium | ND | 1.0 | | | | | | | | | |
| Cadmium | ND | 1.0 | | | | | | | | | |
| Chromium | ND | 1.0 | | | | | | | | | |
| Cobalt | ND | 1.0 | | | | | | | | | |
| Copper | ND | 2.0 | | | | | | | | | |
| Lead | ND | 1.0 | | | | | | | | | |
| Molybdenum | ND | 1.0 | | | | | | | | | |
| Nickel | ND | 1.0 | | | | | | | | | |
| Selenium | ND | 1.0 | | | | | | | | | |
| Silver | ND | 1.0 | | | | | | | | | |
| Thallium | 0.165 | 1.0 | | | | | | | | | |
| Vanadium | ND | 1.0 | | | | | | | | | |
| Zinc | ND | 1.0 | | | | | | | | | |

| Sample ID: LCS-75071 | SampType: LCS | TestCode: 6010_S | Units: mg/Kg | Prep Date: 8/24/2011 | RunNo: 136028 | | | | | | |
|-----------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 75071 | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 8/24/2011 | SeqNo: 2229013 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Antimony | 47.008 | 2.0 | 50.00 | 0.2694 | 93.5 | 80 | 120 | | | | |
| Arsenic | 46.371 | 1.0 | 50.00 | 0 | 92.7 | 80 | 120 | | | | |
| Barium | 48.954 | 1.0 | 50.00 | 0 | 97.9 | 80 | 120 | | | | |
| Beryllium | 47.272 | 1.0 | 50.00 | 0 | 94.5 | 80 | 120 | | | | |
| Cadmium | 46.750 | 1.0 | 50.00 | 0 | 93.5 | 80 | 120 | | | | |
| Chromium | 44.979 | 1.0 | 50.00 | 0 | 90.0 | 80 | 120 | | | | |
| Cobalt | 48.656 | 1.0 | 50.00 | 0 | 97.3 | 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: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

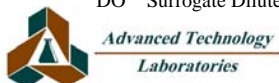
TestCode: 6010_S

| Sample ID: LCS-75071 | | SampType: LCS | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 8/24/2011 | | RunNo: 136028 | | |
|-----------------------------|--------|------------------------|-----------|------------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: LCSS | | Batch ID: 75071 | | TestNo: EPA 6010B EPA 3050B | | | | Analysis Date: 8/24/2011 | | SeqNo: 2229013 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Copper | 48.210 | 2.0 | 50.00 | 0 | 96.4 | 80 | 120 | | | | | |
| Lead | 48.341 | 1.0 | 50.00 | 0 | 96.7 | 80 | 120 | | | | | |
| Molybdenum | 50.078 | 1.0 | 50.00 | 0 | 100 | 80 | 120 | | | | | |
| Nickel | 47.170 | 1.0 | 50.00 | 0 | 94.3 | 80 | 120 | | | | | |
| Selenium | 44.132 | 1.0 | 50.00 | 0 | 88.3 | 80 | 120 | | | | | |
| Silver | 47.141 | 1.0 | 50.00 | 0 | 94.3 | 80 | 120 | | | | | |
| Thallium | 46.538 | 1.0 | 50.00 | 0.1647 | 92.7 | 80 | 120 | | | | | |
| Vanadium | 48.566 | 1.0 | 50.00 | 0 | 97.1 | 80 | 120 | | | | | |
| Zinc | 47.273 | 1.0 | 50.00 | 0 | 94.5 | 80 | 120 | | | | | |

| Sample ID: 119477-045A-MS | | SampType: MS | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 8/24/2011 | | RunNo: 136028 | | |
|----------------------------------|---------|------------------------|-----------|------------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: ZZZZZZ | | Batch ID: 75071 | | TestNo: EPA 6010B EPA 3050B | | | | Analysis Date: 8/24/2011 | | SeqNo: 2229015 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Antimony | 76.680 | 2.0 | 125.0 | 0.2335 | 61.2 | 32 | 105 | | | | | |
| Arsenic | 66.439 | 1.0 | 125.0 | 0 | 53.2 | 49 | 106 | | | | | |
| Barium | 153.537 | 1.0 | 125.0 | 64.53 | 71.2 | 31 | 133 | | | | | |
| Beryllium | 85.486 | 1.0 | 125.0 | 0 | 68.4 | 56 | 106 | | | | | |
| Cadmium | 79.549 | 1.0 | 125.0 | 1.234 | 62.7 | 51 | 103 | | | | | |
| Chromium | 121.129 | 1.0 | 125.0 | 36.92 | 67.4 | 45 | 114 | | | | | |
| Cobalt | 114.076 | 1.0 | 125.0 | 26.19 | 70.3 | 52 | 106 | | | | | |
| Copper | 145.521 | 2.0 | 125.0 | 41.36 | 83.3 | 54 | 125 | | | | | |
| Lead | 87.001 | 1.0 | 125.0 | 3.626 | 66.7 | 34 | 126 | | | | | |
| Molybdenum | 86.784 | 1.0 | 125.0 | 0 | 69.4 | 54 | 106 | | | | | |
| Nickel | 125.805 | 1.0 | 125.0 | 38.56 | 69.8 | 45 | 111 | | | | | |
| Selenium | 77.285 | 1.0 | 125.0 | 0 | 61.8 | 47 | 104 | | | | | |
| Silver | 92.190 | 1.0 | 125.0 | 0 | 73.8 | 56 | 112 | | | | | |
| Thallium | 49.524 | 1.0 | 125.0 | 0 | 39.6 | 46 | 101 | | | | S | |
| Vanadium | 197.362 | 1.0 | 125.0 | 104.3 | 74.5 | 54 | 114 | | | | | |
| Zinc | 137.069 | 1.0 | 125.0 | 61.95 | 60.1 | 28 | 125 | | | | | |

Qualifiers:

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



CLIENT: Mactec
Work Order: 119468
Project: Metro Westside Extension, 4953101561

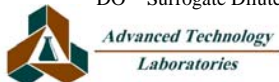
ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

| Sample ID: 119477-045A-MSD | | SampType: MSD | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 8/24/2011 | | RunNo: 136028 | |
|-----------------------------------|---------|------------------------|-----------|------------------------------------|------|---------------------------------|-----------|-----------------------------|-------|----------------------|------|
| Client ID: ZZZZZZ | | Batch ID: 75071 | | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 8/24/2011 | | SeqNo: 2229016 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Antimony | 78.978 | 2.0 | 125.0 | 0.2335 | 63.0 | 32 | 105 | 76.68 | 2.95 | 20 | |
| Arsenic | 68.842 | 1.0 | 125.0 | 0 | 55.1 | 49 | 106 | 66.44 | 3.55 | 20 | |
| Barium | 159.323 | 1.0 | 125.0 | 64.53 | 75.8 | 31 | 133 | 153.5 | 3.70 | 20 | |
| Beryllium | 85.687 | 1.0 | 125.0 | 0 | 68.5 | 56 | 106 | 85.49 | 0.235 | 20 | |
| Cadmium | 83.026 | 1.0 | 125.0 | 1.234 | 65.4 | 51 | 103 | 79.55 | 4.28 | 20 | |
| Chromium | 126.747 | 1.0 | 125.0 | 36.92 | 71.9 | 45 | 114 | 121.1 | 4.53 | 20 | |
| Cobalt | 117.597 | 1.0 | 125.0 | 26.19 | 73.1 | 52 | 106 | 114.1 | 3.04 | 20 | |
| Copper | 150.347 | 2.0 | 125.0 | 41.36 | 87.2 | 54 | 125 | 145.5 | 3.26 | 20 | |
| Lead | 91.977 | 1.0 | 125.0 | 3.626 | 70.7 | 34 | 126 | 87.00 | 5.56 | 20 | |
| Molybdenum | 90.500 | 1.0 | 125.0 | 0 | 72.4 | 54 | 106 | 86.78 | 4.19 | 20 | |
| Nickel | 129.876 | 1.0 | 125.0 | 38.56 | 73.1 | 45 | 111 | 125.8 | 3.18 | 20 | |
| Selenium | 80.772 | 1.0 | 125.0 | 0 | 64.6 | 47 | 104 | 77.29 | 4.41 | 20 | |
| Silver | 96.601 | 1.0 | 125.0 | 0 | 77.3 | 56 | 112 | 92.19 | 4.67 | 20 | |
| Thallium | 50.236 | 1.0 | 125.0 | 0 | 40.2 | 46 | 101 | 49.52 | 1.43 | 20 | S |
| Vanadium | 206.626 | 1.0 | 125.0 | 104.3 | 81.9 | 54 | 114 | 197.4 | 4.59 | 20 | |
| Zinc | 143.614 | 1.0 | 125.0 | 61.95 | 65.3 | 28 | 125 | 137.1 | 4.66 | 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 | |



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

CLIENT: Mactec
Work Order: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-75060 | SampType: MBLK | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/24/2011 | RunNo: 136027 | | | | | | |
| Client ID: PBS | Batch ID: 75060 | TestNo: EPA 7471A | | Analysis Date: 8/24/2011 | SeqNo: 2229002 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury ND 0.10

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-75060 | SampType: LCS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/24/2011 | RunNo: 136027 | | | | | | |
| Client ID: LCSS | Batch ID: 75060 | TestNo: EPA 7471A | | Analysis Date: 8/24/2011 | SeqNo: 2229003 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.832 0.10 0.8300 0 100 80 120

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119468-005A-MS | SampType: MS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/24/2011 | RunNo: 136027 | | | | | | |
| Client ID: E-127-120' | Batch ID: 75060 | TestNo: EPA 7471A | | Analysis Date: 8/24/2011 | SeqNo: 2229004 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

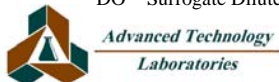
Mercury 0.706 0.10 0.8300 0.01931 82.8 70 130

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119468-005A-MSD | SampType: MSD | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/24/2011 | RunNo: 136027 | | | | | | |
| Client ID: E-127-120' | Batch ID: 75060 | TestNo: EPA 7471A | | Analysis Date: 8/24/2011 | SeqNo: 2229005 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.711 0.10 0.8300 0.01931 83.4 70 130 0.7064 0.720 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: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM H

| | | | | | | | | | | | |
|-----------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-75034 | SampType: LCS | TestCode: 8015_S_DM H | Units: mg/Kg | Prep Date: 8/22/2011 | RunNo: 135973 | | | | | | |
| Client ID: LCSS | Batch ID: 75034 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 8/22/2011 | SeqNo: 2228122 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|---------|----|-------|---|------|----|-----|--|--|--|--|
| DRO | 928.390 | 10 | 1000 | 0 | 92.8 | 76 | 139 | | | | |
| Surr: p-Terphenyl | 74.400 | | 80.00 | | 93.0 | 63 | 152 | | | | |

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119466-001AMS | SampType: MS | TestCode: 8015_S_DM H | Units: mg/Kg | Prep Date: 8/22/2011 | RunNo: 135973 | | | | | | |
| Client ID: ZZZZZ | Batch ID: 75034 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 8/22/2011 | SeqNo: 2228123 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|---------|----|-------|---|------|----|-----|--|--|--|--|
| DRO | 860.860 | 10 | 1000 | 0 | 86.1 | 60 | 158 | | | | |
| Surr: p-Terphenyl | 75.070 | | 80.00 | | 93.8 | 63 | 152 | | | | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119466-001AMSD | SampType: MSD | TestCode: 8015_S_DM H | Units: mg/Kg | Prep Date: 8/22/2011 | RunNo: 135973 | | | | | | |
| Client ID: ZZZZZ | Batch ID: 75034 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 8/22/2011 | SeqNo: 2228124 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

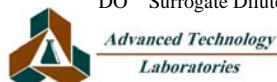
| | | | | | | | | | | | |
|-------------------|---------|----|-------|---|------|----|-----|-------|------|----|--|
| DRO | 847.470 | 10 | 1000 | 0 | 84.7 | 60 | 158 | 860.9 | 1.57 | 20 | |
| Surr: p-Terphenyl | 73.580 | | 80.00 | | 92.0 | 63 | 152 | | 0 | 0 | |

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-75034 | SampType: MBLK | TestCode: 8015_S_DM H | Units: mg/Kg | Prep Date: 8/22/2011 | RunNo: 135973 | | | | | | |
| Client ID: PBS | Batch ID: 75034 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 8/22/2011 | SeqNo: 2228127 | | | | | | |
| 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 | 63.660 | | 80.00 | | 79.6 | 63 | 152 | | | | |

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: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_G 5035P

| | | | | | | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: E110824LC1 | SampType: LCS | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 136058 | | | | | | |
| Client ID: LCSS | Batch ID: E11VS307 | TestNo: EPA 8015B(M) | Analysis Date: 8/24/2011 | SeqNo: 2229734 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 5.069 | 1.0 | 5.000 | 0 | 101 | 70 | 130 | | | | |
| Surr: Bromofluorobenzene (FID) | 124.803 | | 100.0 | | 125 | 51 | 161 | | | | |

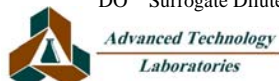
| | | | | | | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: E110824MB1MS | SampType: MS | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 136058 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: E11VS307 | TestNo: EPA 8015B(M) | Analysis Date: 8/24/2011 | SeqNo: 2229735 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 5.182 | 1.0 | 5.000 | 0 | 104 | 41 | 146 | | | | |
| Surr: Bromofluorobenzene (FID) | 106.662 | | 100.0 | | 107 | 51 | 161 | | | | |

| | | | | | | | | | | | |
|---------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|-------|----------|------|
| Sample ID: E110824MB1MSD | SampType: MSD | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 136058 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: E11VS307 | TestNo: EPA 8015B(M) | Analysis Date: 8/24/2011 | SeqNo: 2229736 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 5.227 | 1.0 | 5.000 | 0 | 105 | 41 | 146 | 5.182 | 0.865 | 20 | |
| Surr: Bromofluorobenzene (FID) | 108.159 | | 100.0 | | 108 | 51 | 161 | | 0 | 0 | |

| | | | | | | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: E110824MB1 | SampType: MBLK | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 136058 | | | | | | |
| Client ID: PBS | Batch ID: E11VS307 | TestNo: EPA 8015B(M) | Analysis Date: 8/24/2011 | SeqNo: 2229737 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | ND | 1.0 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 89.530 | | 100.0 | | 89.5 | 51 | 161 | | | | |

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: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DM

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-75038 | SampType: MBLK | TestCode: 8015_W_DM | Units: mg/L | Prep Date: 8/22/2011 | RunNo: 135984 | | | | | | |
| Client ID: PBW | Batch ID: 75038 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 8/22/2011 | SeqNo: 2228373 | | | | | | |
| 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 | 0.060 | | 0.08000 | | 75.2 | 36 | 126 | | | | |

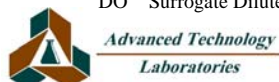
| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-75038 | SampType: LCS | TestCode: 8015_W_DM | Units: mg/L | Prep Date: 8/22/2011 | RunNo: 135984 | | | | | | |
| Client ID: LCSW | Batch ID: 75038 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 8/22/2011 | SeqNo: 2228374 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| DRO | 0.644 | 0.20 | 1.000 | 0 | 64.4 | 52 | 128 | | | | |
| Surr: p-Terphenyl | 0.071 | | 0.08000 | | 88.7 | 36 | 126 | | | | |

| | | | | | | | | | | | |
|------------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-75038MS | SampType: MS | TestCode: 8015_W_DM | Units: mg/L | Prep Date: 8/22/2011 | RunNo: 135984 | | | | | | |
| Client ID: ZZZZZ | Batch ID: 75038 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 8/22/2011 | SeqNo: 2228375 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| DRO | 0.648 | 0.20 | 1.000 | 0 | 64.8 | 52 | 128 | | | | |
| Surr: p-Terphenyl | 0.064 | | 0.08000 | | 79.5 | 36 | 126 | | | | |

| | | | | | | | | | | | |
|-------------------------------|------------------------|--------------------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-75038MSD | SampType: MSD | TestCode: 8015_W_DM | Units: mg/L | Prep Date: 8/22/2011 | RunNo: 135984 | | | | | | |
| Client ID: ZZZZZ | Batch ID: 75038 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 8/22/2011 | SeqNo: 2228376 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| DRO | 0.559 | 0.20 | 1.000 | 0 | 55.9 | 52 | 128 | 0.6478 | 14.6 | 20 | |
| Surr: p-Terphenyl | 0.064 | | 0.08000 | | 79.4 | 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: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_G PRES

| | | | | | | | | | | | |
|--------------------------------|---------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: M110822LCS2 | SampType: LCS | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 135989 | | | | | | |
| Client ID: LCSW | Batch ID: M11VW162 | TestNo: EPA 8015B(M) | Analysis Date: 8/22/2011 | SeqNo: 2228492 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.009 | 0.20 | 1.000 | 0 | 101 | 70 | 130 | | | | |
| Surr: Bromofluorobenzene (FID) | 91.309 | | 100.0 | | 91.3 | 70 | 130 | | | | |

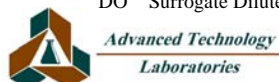
| | | | | | | | | | | | |
|--------------------------------|---------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: M110822MB1MS | SampType: MS | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 135989 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: M11VW162 | TestNo: EPA 8015B(M) | Analysis Date: 8/22/2011 | SeqNo: 2228494 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.035 | 0.20 | 1.000 | 0 | 104 | 70 | 130 | | | | |
| Surr: Bromofluorobenzene (FID) | 92.408 | | 100.0 | | 92.4 | 70 | 130 | | | | |

| | | | | | | | | | | | |
|---------------------------------|---------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|-------|----------|------|
| Sample ID: M110822MB1MSD | SampType: MSD | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 135989 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: M11VW162 | TestNo: EPA 8015B(M) | Analysis Date: 8/22/2011 | SeqNo: 2228495 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.039 | 0.20 | 1.000 | 0 | 104 | 70 | 130 | 1.035 | 0.386 | 20 | |
| Surr: Bromofluorobenzene (FID) | 93.112 | | 100.0 | | 93.1 | 70 | 130 | | 0 | 0 | |

| | | | | | | | | | | | |
|--------------------------------|---------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: M110822MB1 | SampType: MBLK | TestCode: 8015_W_G P | Units: mg/L | Prep Date: | RunNo: 135989 | | | | | | |
| Client ID: PBW | Batch ID: M11VW162 | TestNo: EPA 8015B(M) | Analysis Date: 8/22/2011 | SeqNo: 2228496 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | ND | 0.20 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 89.015 | | 100.0 | | 89.0 | 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: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

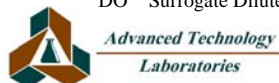
| Sample ID: T110822LCS1 | | SampType: LCS | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135975 | |
|-------------------------------|--------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: LCSS | | Batch ID: T11VS154 | | TestNo: EPA 8260B | | Analysis Date: 8/22/2011 | | | | SeqNo: 2229081 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 41.470 | 5.0 | 50.00 | 0 | 82.9 | 70 | 130 | | | | |
| Benzene | 90.530 | 5.0 | 100.0 | 0 | 90.5 | 70 | 130 | | | | |
| Chlorobenzene | 51.970 | 5.0 | 50.00 | 0 | 104 | 70 | 130 | | | | |
| MTBE | 50.710 | 5.0 | 50.00 | 0 | 101 | 70 | 130 | | | | |
| Toluene | 96.040 | 5.0 | 100.0 | 0 | 96.0 | 70 | 130 | | | | |
| Trichloroethene | 49.550 | 5.0 | 50.00 | 0 | 99.1 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 45.040 | | 50.00 | | 90.1 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 43.090 | | 50.00 | | 86.2 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 53.330 | | 50.00 | | 107 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 47.020 | | 50.00 | | 94.0 | 72 | 123 | | | | |

| Sample ID: T110822MB1MS | | SampType: MS | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135975 | |
|--------------------------------|---------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: T11VS154 | | TestNo: EPA 8260B | | Analysis Date: 8/22/2011 | | | | SeqNo: 2229082 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 44.950 | 5.0 | 50.00 | 0 | 89.9 | 70 | 130 | | | | |
| Benzene | 96.580 | 5.0 | 100.0 | 0 | 96.6 | 70 | 130 | | | | |
| Chlorobenzene | 53.450 | 5.0 | 50.00 | 0 | 107 | 70 | 130 | | | | |
| MTBE | 53.630 | 5.0 | 50.00 | 0 | 107 | 70 | 130 | | | | |
| Toluene | 104.210 | 5.0 | 100.0 | 0 | 104 | 70 | 130 | | | | |
| Trichloroethene | 51.020 | 5.0 | 50.00 | 0 | 102 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 43.770 | | 50.00 | | 87.5 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 45.490 | | 50.00 | | 91.0 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 50.780 | | 50.00 | | 102 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 48.890 | | 50.00 | | 97.8 | 72 | 123 | | | | |

| Sample ID: T110822MB1MSD | | SampType: MSD | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135975 | |
|---------------------------------|--------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: T11VS154 | | TestNo: EPA 8260B | | Analysis Date: 8/22/2011 | | | | SeqNo: 2229083 | |
| 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: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

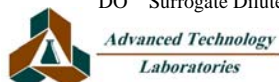
TestCode: 8260_S_5035

| Sample ID: T110822MB1MSD | | SampType: MSD | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135975 | |
|---------------------------------|--------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: ZZZZZ | | Batch ID: T11VS154 | | TestNo: EPA 8260B | | Analysis Date: 8/22/2011 | | | | SeqNo: 2229083 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 44.180 | 5.0 | 50.00 | 0 | 88.4 | 70 | 130 | 44.95 | 1.73 | 20 | |
| Benzene | 92.160 | 5.0 | 100.0 | 0 | 92.2 | 70 | 130 | 96.58 | 4.68 | 20 | |
| Chlorobenzene | 52.680 | 5.0 | 50.00 | 0 | 105 | 70 | 130 | 53.45 | 1.45 | 20 | |
| MTBE | 51.200 | 5.0 | 50.00 | 0 | 102 | 70 | 130 | 53.63 | 4.64 | 20 | |
| Toluene | 98.630 | 5.0 | 100.0 | 0 | 98.6 | 70 | 130 | 104.2 | 5.50 | 20 | |
| Trichloroethene | 48.770 | 5.0 | 50.00 | 0 | 97.5 | 70 | 130 | 51.02 | 4.51 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 45.840 | | 50.00 | | 91.7 | 65 | 141 | | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 44.200 | | 50.00 | | 88.4 | 57 | 134 | | 0 | 0 | |
| Surr: Dibromofluoromethane | 52.840 | | 50.00 | | 106 | 70 | 128 | | 0 | 0 | |
| Surr: Toluene-d8 | 46.850 | | 50.00 | | 93.7 | 72 | 123 | | 0 | 0 | |

| Sample ID: T110822MB1 | | SampType: MBLK | | TestCode: 8260_S_5035 | | Units: µg/Kg | | Prep Date: | | RunNo: 135975 | |
|------------------------------|--------|---------------------------|-----------|------------------------------|------|---------------------------------|-----------|-------------|------|-----------------------|------|
| Client ID: PBS | | Batch ID: T11VS154 | | TestNo: EPA 8260B | | Analysis Date: 8/22/2011 | | | | SeqNo: 2229084 | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 5.0 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 5.0 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 10 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 5.0 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | | | | | | | | | |

Qualifiers:

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



CLIENT: Mactec
Work Order: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| | | | | | | | | | | | |
|------------------------------|---------------------------|------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: T110822MB1 | SampType: MBLK | TestCode: 8260_S_5035 | Units: µg/Kg | Prep Date: | RunNo: 135975 | | | | | | |
| Client ID: PBS | Batch ID: T11VS154 | TestNo: EPA 8260B | | Analysis Date: 8/22/2011 | SeqNo: 2229084 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

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

Qualifiers:

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



*Advanced Technology
Laboratories*

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

CLIENT: Mactec
Work Order: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| | | | | | |
|------------------------------|---------------------------|------------------------------|---------------------|---------------------------------|-----------------------|
| Sample ID: T110822MB1 | SampType: MBLK | TestCode: 8260_S_5035 | Units: µg/Kg | Prep Date: | RunNo: 135975 |
| Client ID: PBS | Batch ID: T11VS154 | TestNo: EPA 8260B | | Analysis Date: 8/22/2011 | SeqNo: 2229084 |

| 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 | 46.680 | | 50.00 | | 93.4 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 42.270 | | 50.00 | | 84.5 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 49.940 | | 50.00 | | 99.9 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 48.340 | | 50.00 | | 96.7 | 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 | |



*Advanced Technology
Laboratories*

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

CLIENT: Mactec
Work Order: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

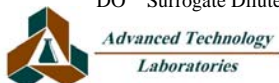
| Sample ID: Q110822LCS1 | | SampType: LCS | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 136001 | | |
|-------------------------------|--------|---------------------------|-----------|-----------------------------|------|--------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: LCSW | | Batch ID: Q11VW159 | | TestNo: EPA 8260B | | | | Analysis Date: 8/22/2011 | | SeqNo: 2228571 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| 1,1-Dichloroethene | 18.720 | 0.50 | 20.00 | 0 | 93.6 | 70 | 130 | | | | | |
| Benzene | 38.700 | 0.50 | 40.00 | 0 | 96.8 | 70 | 130 | | | | | |
| Chlorobenzene | 20.260 | 0.50 | 20.00 | 0 | 101 | 70 | 130 | | | | | |
| MTBE | 21.010 | 0.50 | 20.00 | 0 | 105 | 70 | 130 | | | | | |
| Toluene | 40.750 | 0.50 | 40.00 | 0 | 102 | 70 | 130 | | | | | |
| Trichloroethene | 20.000 | 0.50 | 20.00 | 0 | 100 | 70 | 130 | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 22.860 | | 25.00 | | 91.4 | 70 | 130 | | | | | |
| Surr: 4-Bromofluorobenzene | 25.080 | | 25.00 | | 100 | 70 | 130 | | | | | |
| Surr: Dibromofluoromethane | 22.740 | | 25.00 | | 91.0 | 70 | 130 | | | | | |
| Surr: Toluene-d8 | 23.560 | | 25.00 | | 94.2 | 70 | 130 | | | | | |

| Sample ID: Q110822MB3MS | | SampType: MS | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 136001 | | |
|--------------------------------|--------|---------------------------|-----------|-----------------------------|------|--------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: ZZZZZ | | Batch ID: Q11VW159 | | TestNo: EPA 8260B | | | | Analysis Date: 8/22/2011 | | SeqNo: 2228572 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| 1,1-Dichloroethene | 19.750 | 0.50 | 20.00 | 0 | 98.8 | 70 | 130 | | | | | |
| Benzene | 39.700 | 0.50 | 40.00 | 0 | 99.2 | 70 | 130 | | | | | |
| Chlorobenzene | 21.000 | 0.50 | 20.00 | 0 | 105 | 70 | 130 | | | | | |
| MTBE | 22.790 | 0.50 | 20.00 | 0 | 114 | 70 | 130 | | | | | |
| Toluene | 41.640 | 0.50 | 40.00 | 0 | 104 | 70 | 130 | | | | | |
| Trichloroethene | 20.770 | 0.50 | 20.00 | 0 | 104 | 70 | 130 | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 23.520 | | 25.00 | | 94.1 | 70 | 130 | | | | | |
| Surr: 4-Bromofluorobenzene | 25.040 | | 25.00 | | 100 | 70 | 130 | | | | | |
| Surr: Dibromofluoromethane | 23.420 | | 25.00 | | 93.7 | 70 | 130 | | | | | |
| Surr: Toluene-d8 | 23.170 | | 25.00 | | 92.7 | 70 | 130 | | | | | |

| Sample ID: Q110822MB3MSD | | SampType: MSD | | TestCode: 8260_WP_LL | | Units: µg/L | | Prep Date: | | RunNo: 136001 | | |
|---------------------------------|--------|---------------------------|-----------|-----------------------------|------|--------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: ZZZZZ | | Batch ID: Q11VW159 | | TestNo: EPA 8260B | | | | Analysis Date: 8/22/2011 | | SeqNo: 2228573 | | |
| 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: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

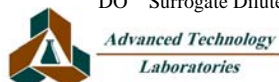
TestCode: 8260_WP_LL

| Sample ID: Q110822MB3MSD | SampType: MSD | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 136001 | | | | | | |
|---------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|-------|----------|------|
| Client ID: ZZZZZZ | Batch ID: Q11VW159 | TestNo: EPA 8260B | | Analysis Date: 8/22/2011 | SeqNo: 2228573 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 18.510 | 0.50 | 20.00 | 0 | 92.6 | 70 | 130 | 19.75 | 6.48 | 20 | |
| Benzene | 38.930 | 0.50 | 40.00 | 0 | 97.3 | 70 | 130 | 39.70 | 1.96 | 20 | |
| Chlorobenzene | 20.840 | 0.50 | 20.00 | 0 | 104 | 70 | 130 | 21.00 | 0.765 | 20 | |
| MTBE | 22.640 | 0.50 | 20.00 | 0 | 113 | 70 | 130 | 22.79 | 0.660 | 20 | |
| Toluene | 40.900 | 0.50 | 40.00 | 0 | 102 | 70 | 130 | 41.64 | 1.79 | 20 | |
| Trichloroethene | 19.990 | 0.50 | 20.00 | 0 | 100 | 70 | 130 | 20.77 | 3.83 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 22.670 | | 25.00 | | 90.7 | 70 | 130 | | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 25.210 | | 25.00 | | 101 | 70 | 130 | | 0 | 0 | |
| Surr: Dibromofluoromethane | 23.030 | | 25.00 | | 92.1 | 70 | 130 | | 0 | 0 | |
| Surr: Toluene-d8 | 23.040 | | 25.00 | | 92.2 | 70 | 130 | | 0 | 0 | |

| Sample ID: Q110822MB3 | SampType: MBLK | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 136001 | | | | | | |
|------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBW | Batch ID: Q11VW159 | TestNo: EPA 8260B | | Analysis Date: 8/22/2011 | SeqNo: 2228574 | | | | | | |
| 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: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| | | | | | | | | | | | |
|------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: Q110822MB3 | SampType: MBLK | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 136001 | | | | | | |
| Client ID: PBW | Batch ID: Q11VW159 | TestNo: EPA 8260B | | Analysis Date: 8/22/2011 | SeqNo: 2228574 | | | | | | |
| 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: 119468
Project: Metro Westside Extension, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

| Sample ID: Q110822MB3 | SampType: MBLK | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 136001 | | | | | | |
|------------------------------|---------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBW | Batch ID: Q11VW159 | TestNo: EPA 8260B | | Analysis Date: 8/22/2011 | SeqNo: 2228574 | | | | | | |
| 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 | 27.030 | | 25.00 | | 108 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 25.880 | | 25.00 | | 104 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 25.900 | | 25.00 | | 104 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 22.700 | | 25.00 | | 90.8 | 70 | 130 | | | | |

Qualifiers:

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



*Advanced Technology
Laboratories*

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

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Method of Transport: Client ATL FedEx OnTrac GSO Other: _____

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

Quote #: 201106374 Quote #: 1476 Date: 8/19/11

Logged By: [Signature] Date: 8/19/11

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

Client: MACTEC Address: 5628 E. Slawson Ave State: CA Zip Code: 90040 TEL: 323-889-5300

Attn: Matt Fraychinead City: LA State: CA Zip Code: 90040 FAX: _____

Project Name: Metro Westside Extension Project #: 4953101561 Sampler: [Signature]

Relinquished by: (Signature and Printed Name) Date: 8/19/11 Time: 0700 Received by: (Signature and Printed Name) Date: 8/19/11 Time: 0700

Relinquished by: (Signature and Printed Name) Date: 8/19/11 Time: 512 Received by: (Signature and Printed Name) Date: 8/19/11 Time: 8:12

Relinquished by: (Signature and Printed Name) Date: 8/19/11 Time: 1430 Received by: (Signature and Printed Name) Date: 8/19/11 Time: 1430

I hereby authorize ATL to perform the work indicated below:

Project Mgr./Submitter: Matt Fraychinead Date: 8/19/11

Print Name: Matt Fraychinead Signature: [Signature]

Bill To: _____ Attn: _____ Co: _____ Address: _____ City: _____ State: _____ Zip: _____

Circle or Add Analysis(es) Requested: _____

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

| ITEM | LAB USE ONLY: | | Sample Description | Date | Time |
|------|---------------|---------|--------------------|------|------|
| | Batch #: | Lab No. | | | |
| | 119468 | 007 | E-127-60' | 1125 | |
| | | | E-127-80' | 1155 | |
| | | | E-127-100' | 1220 | |
| | | | E-127-110' | 1235 | |
| | | | E-127-120' | 1300 | |
| | | | E-127-125' | 1310 | |
| | | | E-127-130' | 1320 | |
| | | | E-127-GW | 1455 | |

Special Instructions/Comments: _____

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

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

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

8081A (Pesticides) 8082 (PCB) 8260B (Nitrates) 8270C (BNA) 8010B (Total Metal) 8015B (DRO) / 8021 (BTEX) 8015B (GRO) / 8021 (BTEX) TITLE 22 / CAM 17 (6010 / 7000)

| SPECIFY APPROPRIATE MATRIX | | Container(s) | TAT | Type | REMARKS |
|----------------------------|--|--------------|-----|------|---------|
| SEDIMENT | | | | | |
| SOLID | | | X | | |
| DRINKING WATER | | | X | | |
| GROUND WATER | | | X | | |
| WASTEWATER | | | X | | |
| STORMWATER | | | X | | |
| AQUEOUS | | | X | | |

Figure I-1.960

August 23, 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.: 119413

RE:

Attention: Matt Fraychineaud

Enclosed are the results for sample(s) received on August 15, 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.



CLIENT: Mactec

Project:

Lab Order: 119413

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

One sodium bisulfate preserved sample labeled as E-132-15' was found bagged together with the sample labelled as E-132-30'.

Analytical Comments for EPA 8015B(M) (GRO)

Samples 119407-003AMS and 119407-003AMSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Sample 119407-003AMSD, RPD for Matrix Spike Duplicate (MSD) is outside criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 23-Aug-11

CLIENT: Mactec **Client Sample ID:** E-132-15'
Lab Order: 119413 **Collection Date:** 8/12/2011 10:00:00 AM
Project: **Matrix:** SOIL
Lab ID: 119413-002A

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|-----------------|--------|---------------------|---------------------|----|--------------------|
| DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID | | | | | | |
| LUFT | | | EPA 8015B(M) | | | |
| RunID: GC16_110816G | QC Batch: 74985 | | | PrepDate: 8/17/2011 | | Analyst: CBR |
| DRO | ND | 10 | | mg/Kg | 1 | 8/17/2011 10:46 PM |
| ORO | ND | 10 | | mg/Kg | 1 | 8/17/2011 10:46 PM |
| Surr: p-Terphenyl | 87.2 | 63-152 | | %REC | 1 | 8/17/2011 10:46 PM |
| SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS | | | | | | |
| EPA 3550B | | | EPA 8270C | | | |
| RunID: MS 13_110822A | QC Batch: 75003 | | | PrepDate: 8/18/2011 | | Analyst: DMP |
| 1,2,4-Trichlorobenzene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 1,2-Dichlorobenzene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 1,3-Dichlorobenzene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 1,4-Dichlorobenzene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 2,4,5-Trichlorophenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 2,4,6-Trichlorophenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 2,4-Dichlorophenol | ND | 1600 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 2,4-Dimethylphenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 2,4-Dinitrophenol | ND | 1600 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 2,4-Dinitrotoluene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 2,6-Dinitrotoluene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 2-Chloronaphthalene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 2-Chlorophenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 2-Methylnaphthalene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 2-Methylphenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 2-Nitroaniline | ND | 1600 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 2-Nitrophenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 3,3'-Dichlorobenzidine | ND | 660 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 3-Nitroaniline | ND | 1600 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 4,6-Dinitro-2-methylphenol | ND | 1600 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 4-Bromophenyl-phenylether | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 4-Chloro-3-methylphenol | ND | 660 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 4-Chloroaniline | ND | 660 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 4-Chlorophenyl-phenylether | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 4-Methylphenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 4-Nitroaniline | ND | 1600 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| 4-Nitrophenol | ND | 1600 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| Acenaphthene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| Acenaphthylene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 23-Aug-11

CLIENT: Mactec **Client Sample ID:** E-132-15'
Lab Order: 119413 **Collection Date:** 8/12/2011 10:00:00 AM
Project: **Matrix:** SOIL
Lab ID: 119413-002A

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

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

| RunID: | MS 13_110822A | QC Batch: | 75003 | PrepDate: | 8/18/2011 | Analyst: | DMP |
|-----------------------------|---------------|-----------|-------|-----------|--------------------|----------|-----|
| Anthracene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Benzidine (M) | ND | 1600 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Benzo(a)anthracene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Benzo(a)pyrene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Benzo(b)fluoranthene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Benzo(g,h,i)perylene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Benzo(k)fluoranthene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Benzoic acid | ND | 1600 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Benzyl alcohol | ND | 660 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Bis(2-chloroethoxy)methane | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Bis(2-chloroethyl)ether | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Bis(2-chloroisopropyl)ether | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Bis(2-ethylhexyl)phthalate | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Butylbenzylphthalate | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Chrysene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Di-n-butylphthalate | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Di-n-octylphthalate | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Dibenz(a,h)anthracene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Dibenzofuran | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Diethylphthalate | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Dimethylphthalate | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Fluoranthene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Fluorene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Hexachlorobenzene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Hexachlorobutadiene | ND | 660 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Hexachlorocyclopentadiene | ND | 660 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Hexachloroethane | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Indeno(1,2,3-cd)pyrene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Isophorone | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| N-Nitrosodi-n-propylamine | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| N-Nitrosodiphenylamine | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Naphthalene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Nitrobenzene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Pentachlorophenol | ND | 1600 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |
| Phenanthrene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:17 PM | | |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 23-Aug-11

| | | | |
|-------------------|-------------|--------------------------|-----------------------|
| CLIENT: | Mactec | Client Sample ID: | E-132-15' |
| Lab Order: | 119413 | Collection Date: | 8/12/2011 10:00:00 AM |
| Project: | | Matrix: | SOIL |
| Lab ID: | 119413-002A | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|------------------|--------|------|---------------------|----|--------------------|
| SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS | | | | | | |
| | EPA 3550B | | | EPA 8270C | | |
| RunID: MS 13_110822A | QC Batch: 75003 | | | PrepDate: 8/18/2011 | | Analyst: DMP |
| Phenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| Pyrene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:17 PM |
| Surr: 1,2-Dichlorobenzene-d4 | 80.6 | 45-105 | | %REC | 1 | 8/22/2011 03:17 PM |
| Surr: 2,4,6-Tribromophenol | 84.9 | 41-129 | | %REC | 1 | 8/22/2011 03:17 PM |
| Surr: 2-Chlorophenol-d4 | 83.4 | 55-108 | | %REC | 1 | 8/22/2011 03:17 PM |
| Surr: 2-Fluorobiphenyl | 86.0 | 56-114 | | %REC | 1 | 8/22/2011 03:17 PM |
| Surr: 2-Fluorophenol | 85.5 | 50-108 | | %REC | 1 | 8/22/2011 03:17 PM |
| Surr: 4-Terphenyl-d14 | 82.0 | 59-141 | | %REC | 1 | 8/22/2011 03:17 PM |
| Surr: Nitrobenzene-d5 | 84.8 | 45-114 | | %REC | 1 | 8/22/2011 03:17 PM |
| Surr: Phenol-d5 | 87.9 | 46-118 | | %REC | 1 | 8/22/2011 03:17 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 23-Aug-11

CLIENT: Mactec **Client Sample ID:** E-132-15'
Lab Order: 119413 **Collection Date:** 8/12/2011 10:00:00 AM
Project: **Matrix:** SOIL
Lab ID: 119413-002B

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS5_110816A | QC Batch: | T11VS150 | PrepDate: | 8/12/2011 | Analyst: | DDL |
|-----------------------------|-------------|-----------|----------|-----------|--------------------|----------|-----|
| 1,1,1,2-Tetrachloroethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,1,1-Trichloroethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,1,2,2-Tetrachloroethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,1,2-Trichloroethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,1-Dichloroethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,1-Dichloroethene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,1-Dichloropropene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,2,3-Trichlorobenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,2,3-Trichloropropane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,2,4-Trichlorobenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,2,4-Trimethylbenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,2-Dibromo-3-chloropropane | ND | 20 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,2-Dibromoethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,2-Dichlorobenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,2-Dichloroethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,2-Dichloropropane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,3,5-Trimethylbenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,3-Dichlorobenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,3-Dichloropropane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 1,4-Dichlorobenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 2,2-Dichloropropane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 2-Chlorotoluene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 4-Chlorotoluene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| 4-Isopropyltoluene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Benzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Bromobenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Bromodichloromethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Bromoform | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Bromomethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Carbon tetrachloride | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Chlorobenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Chloroethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Chloroform | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Chloromethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| cis-1,2-Dichloroethene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 23-Aug-11

CLIENT: Mactec **Client Sample ID:** E-132-15'
Lab Order: 119413 **Collection Date:** 8/12/2011 10:00:00 AM
Project: **Matrix:** SOIL
Lab ID: 119413-002B

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS5_110816A | QC Batch: | T11VS150 | PrepDate: | 8/12/2011 | Analyst: | DDL |
|-----------------------------|-------------|-----------|----------|-----------|--------------------|----------|-----|
| cis-1,3-Dichloropropene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Di-isopropyl ether | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Dibromochloromethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Dibromomethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Dichlorodifluoromethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Ethyl Tert-butyl ether | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Ethylbenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Hexachlorobutadiene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Isopropylbenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| m,p-Xylene | ND | 20 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Methylene chloride | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| MTBE | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| n-Butylbenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| n-Propylbenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Naphthalene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| o-Xylene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| sec-Butylbenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Styrene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Tert-amyl methyl ether | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Tert-Butanol | ND | 200 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| tert-Butylbenzene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Tetrachloroethene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Toluene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| trans-1,2-Dichloroethene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Trichloroethene | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Trichlorofluoromethane | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Vinyl chloride | ND | 10 | µg/Kg | 1 | 8/16/2011 03:34 PM | | |
| Surr: 1,2-Dichloroethane-d4 | 90.6 | 65-141 | %REC | 1 | 8/16/2011 03:34 PM | | |
| Surr: 4-Bromofluorobenzene | 89.3 | 57-134 | %REC | 1 | 8/16/2011 03:34 PM | | |
| Surr: Dibromofluoromethane | 99.5 | 70-128 | %REC | 1 | 8/16/2011 03:34 PM | | |
| Surr: Toluene-d8 | 94.5 | 72-123 | %REC | 1 | 8/16/2011 03:34 PM | | |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 23-Aug-11

CLIENT: Mactec
Lab Order: 119413
Project:
Lab ID: 119413-002E

Client Sample ID: E-132-15'
Collection Date: 8/12/2011 10:00:00 AM
Matrix: SOIL

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

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

| | | | | | |
|--------------------------------|--------------------|---------------------|-------------|---|--------------------|
| RunID: GC2_110816A | QC Batch: E11VS300 | PrepDate: 8/12/2011 | Analyst: TP | | |
| GRO | ND | 0.90 | mg/Kg | 1 | 8/16/2011 03:07 PM |
| Surr: Bromofluorobenzene (FID) | 109 | 51-161 | %REC | 1 | 8/16/2011 03:07 PM |

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



*Advanced Technology
Laboratories*

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 23-Aug-11

CLIENT: Mactec **Client Sample ID:** E-132-30'
Lab Order: 119413 **Collection Date:** 8/12/2011 10:20:00 AM
Project: **Matrix:** SOIL
Lab ID: 119413-005A

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|-----------------|--------|---------------------|---------------------|----|--------------------|
| DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID | | | | | | |
| LUFT | | | EPA 8015B(M) | | | |
| RunID: GC16_110816G | QC Batch: 74985 | | | PrepDate: 8/17/2011 | | Analyst: CBR |
| DRO | ND | 10 | | mg/Kg | 1 | 8/17/2011 10:55 PM |
| ORO | ND | 10 | | mg/Kg | 1 | 8/17/2011 10:55 PM |
| Surr: p-Terphenyl | 82.8 | 63-152 | | %REC | 1 | 8/17/2011 10:55 PM |
| SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS | | | | | | |
| EPA 3550B | | | EPA 8270C | | | |
| RunID: MS 13_110822A | QC Batch: 75003 | | | PrepDate: 8/18/2011 | | Analyst: DMP |
| 1,2,4-Trichlorobenzene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 1,2-Dichlorobenzene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 1,3-Dichlorobenzene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 1,4-Dichlorobenzene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 2,4,5-Trichlorophenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 2,4,6-Trichlorophenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 2,4-Dichlorophenol | ND | 1600 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 2,4-Dimethylphenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 2,4-Dinitrophenol | ND | 1600 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 2,4-Dinitrotoluene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 2,6-Dinitrotoluene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 2-Chloronaphthalene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 2-Chlorophenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 2-Methylnaphthalene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 2-Methylphenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 2-Nitroaniline | ND | 1600 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 2-Nitrophenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 3,3'-Dichlorobenzidine | ND | 660 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 3-Nitroaniline | ND | 1600 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 4,6-Dinitro-2-methylphenol | ND | 1600 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 4-Bromophenyl-phenylether | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 4-Chloro-3-methylphenol | ND | 660 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 4-Chloroaniline | ND | 660 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 4-Chlorophenyl-phenylether | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 4-Methylphenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 4-Nitroaniline | ND | 1600 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| 4-Nitrophenol | ND | 1600 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| Acenaphthene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| Acenaphthylene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 23-Aug-11

CLIENT: Mactec **Client Sample ID:** E-132-30'
Lab Order: 119413 **Collection Date:** 8/12/2011 10:20:00 AM
Project: **Matrix:** SOIL
Lab ID: 119413-005A

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

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

| RunID: | MS 13_110822A | QC Batch: | 75003 | PrepDate: | 8/18/2011 | Analyst: | DMP |
|-----------------------------|---------------|-----------|-------|-----------|--------------------|----------|-----|
| Anthracene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Benzidine (M) | ND | 1600 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Benzo(a)anthracene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Benzo(a)pyrene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Benzo(b)fluoranthene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Benzo(g,h,i)perylene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Benzo(k)fluoranthene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Benzoic acid | ND | 1600 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Benzyl alcohol | ND | 660 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Bis(2-chloroethoxy)methane | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Bis(2-chloroethyl)ether | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Bis(2-chloroisopropyl)ether | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Bis(2-ethylhexyl)phthalate | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Butylbenzylphthalate | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Chrysene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Di-n-butylphthalate | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Di-n-octylphthalate | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Dibenz(a,h)anthracene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Dibenzofuran | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Diethylphthalate | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Dimethylphthalate | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Fluoranthene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Fluorene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Hexachlorobenzene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Hexachlorobutadiene | ND | 660 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Hexachlorocyclopentadiene | ND | 660 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Hexachloroethane | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Indeno(1,2,3-cd)pyrene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Isophorone | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| N-Nitrosodi-n-propylamine | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| N-Nitrosodiphenylamine | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Naphthalene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Nitrobenzene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Pentachlorophenol | ND | 1600 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |
| Phenanthrene | ND | 330 | µg/Kg | 1 | 8/22/2011 03:48 PM | | |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 23-Aug-11

CLIENT: Mactec
Lab Order: 119413
Project:
Lab ID: 119413-005A

Client Sample ID: E-132-30'
Collection Date: 8/12/2011 10:20:00 AM
Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|------------------|--------|------|---------------------|----|--------------------|
| SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS | | | | | | |
| | EPA 3550B | | | EPA 8270C | | |
| RunID: MS 13_110822A | QC Batch: 75003 | | | PrepDate: 8/18/2011 | | Analyst: DMP |
| Phenol | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| Pyrene | ND | 330 | | µg/Kg | 1 | 8/22/2011 03:48 PM |
| Surr: 1,2-Dichlorobenzene-d4 | 71.9 | 45-105 | | %REC | 1 | 8/22/2011 03:48 PM |
| Surr: 2,4,6-Tribromophenol | 90.2 | 41-129 | | %REC | 1 | 8/22/2011 03:48 PM |
| Surr: 2-Chlorophenol-d4 | 76.7 | 55-108 | | %REC | 1 | 8/22/2011 03:48 PM |
| Surr: 2-Fluorobiphenyl | 80.3 | 56-114 | | %REC | 1 | 8/22/2011 03:48 PM |
| Surr: 2-Fluorophenol | 76.3 | 50-108 | | %REC | 1 | 8/22/2011 03:48 PM |
| Surr: 4-Terphenyl-d14 | 81.2 | 59-141 | | %REC | 1 | 8/22/2011 03:48 PM |
| Surr: Nitrobenzene-d5 | 76.6 | 45-114 | | %REC | 1 | 8/22/2011 03:48 PM |
| Surr: Phenol-d5 | 82.1 | 46-118 | | %REC | 1 | 8/22/2011 03:48 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 23-Aug-11

CLIENT: Mactec **Client Sample ID:** E-132-30'
Lab Order: 119413 **Collection Date:** 8/12/2011 10:20:00 AM
Project: **Matrix:** SOIL
Lab ID: 119413-005B

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

| RunID: | MS5_110816A | QC Batch: | T11VS150 | PrepDate: | 8/12/2011 | Analyst: | DDL |
|-----------------------------|-------------|-----------|----------|-----------|--------------------|----------|-----|
| 1,1,1,2-Tetrachloroethane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,1,1-Trichloroethane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,1,2,2-Tetrachloroethane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,1,2-Trichloroethane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,1-Dichloroethane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,1-Dichloroethene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,1-Dichloropropene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,2,3-Trichlorobenzene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,2,3-Trichloropropane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,2,4-Trichlorobenzene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,2,4-Trimethylbenzene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,2-Dibromo-3-chloropropane | ND | 13 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,2-Dibromoethane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,2-Dichlorobenzene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,2-Dichloroethane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,2-Dichloropropane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,3,5-Trimethylbenzene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,3-Dichlorobenzene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,3-Dichloropropane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 1,4-Dichlorobenzene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 2,2-Dichloropropane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 2-Chlorotoluene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 4-Chlorotoluene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| 4-Isopropyltoluene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| Benzene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| Bromobenzene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| Bromodichloromethane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| Bromoform | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| Bromomethane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| Carbon tetrachloride | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| Chlorobenzene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| Chloroethane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| Chloroform | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| Chloromethane | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |
| cis-1,2-Dichloroethene | ND | 6.4 | µg/Kg | 1 | 8/16/2011 03:53 PM | | |

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 23-Aug-11

CLIENT: Mactec **Client Sample ID:** E-132-30'
Lab Order: 119413 **Collection Date:** 8/12/2011 10:20:00 AM
Project: **Matrix:** SOIL
Lab ID: 119413-005B

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------------------|--------|------|---------------------|----|--------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS | | | | | | |
| EPA 8260B | | | | | | |
| RunID: MS5_110816A | QC Batch: T11VS150 | | | PrepDate: 8/12/2011 | | Analyst: DDL |
| cis-1,3-Dichloropropene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Di-isopropyl ether | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Dibromochloromethane | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Dibromomethane | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Dichlorodifluoromethane | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Ethyl Tert-butyl ether | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Ethylbenzene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Hexachlorobutadiene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Isopropylbenzene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| m,p-Xylene | ND | 13 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Methylene chloride | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| MTBE | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| n-Butylbenzene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| n-Propylbenzene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Naphthalene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| o-Xylene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| sec-Butylbenzene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Styrene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Tert-amyl methyl ether | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Tert-Butanol | ND | 130 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| tert-Butylbenzene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Tetrachloroethene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Toluene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| trans-1,2-Dichloroethene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Trichloroethene | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Trichlorofluoromethane | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Vinyl chloride | ND | 6.4 | | µg/Kg | 1 | 8/16/2011 03:53 PM |
| Surr: 1,2-Dichloroethane-d4 | 92.5 | 65-141 | | %REC | 1 | 8/16/2011 03:53 PM |
| Surr: 4-Bromofluorobenzene | 88.3 | 57-134 | | %REC | 1 | 8/16/2011 03:53 PM |
| Surr: Dibromofluoromethane | 96.4 | 70-128 | | %REC | 1 | 8/16/2011 03:53 PM |
| Surr: Toluene-d8 | 92.6 | 72-123 | | %REC | 1 | 8/16/2011 03:53 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 23-Aug-11

| | |
|----------------------------|---|
| CLIENT: Mactec | Client Sample ID: E-132-30' |
| Lab Order: 119413 | Collection Date: 8/12/2011 10:20:00 AM |
| Project: | Matrix: SOIL |
| Lab ID: 119413-005E | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------------------|--------|------|-------|---------------------|--------------------|
| GASOLINE RANGE ORGANICS BY GC/FID | | | | | | |
| EPA 8015B(M) | | | | | | |
| RunID: GC2_110816A | QC Batch: E11VS300 | | | | PrepDate: 8/12/2011 | Analyst: TP |
| GRO | ND | 1.1 | | mg/Kg | 1 | 8/16/2011 03:23 PM |
| Surr: Bromofluorobenzene (FID) | 95.6 | 51-161 | | %REC | 1 | 8/16/2011 03:23 PM |

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 23-Aug-11

CLIENT: Mactec
Lab Order: 119413
Project:
Lab ID: 119413-006A

Client Sample ID: E-132-35'
Collection Date: 8/12/2011 10:35:00 AM
Matrix: SOIL

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

ICP METALS

| | | EPA 3050B | | EPA 6010B | | |
|------------|--------------|-----------|-------|-----------|--------------------|-------------|
| RunID: | ICP8_110817B | QC Batch: | 74967 | PrepDate: | 8/17/2011 | Analyst: IL |
| Antimony | ND | 2.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Arsenic | 1.3 | 1.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Barium | 59 | 1.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Beryllium | ND | 1.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Cadmium | ND | 1.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Chromium | 19 | 1.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Cobalt | 5.4 | 1.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Copper | 14 | 2.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Lead | 3.0 | 1.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Molybdenum | ND | 1.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Nickel | 17 | 1.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Selenium | ND | 1.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Silver | ND | 1.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Thallium | ND | 1.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Vanadium | 30 | 1.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |
| Zinc | 50 | 1.0 | mg/Kg | 1 | 8/17/2011 01:49 PM | |

MERCURY BY COLD VAPOR TECHNIQUE

| | | EPA 7471A | | | | |
|---------|-------------|-----------|-------|-----------|--------------------|-------------|
| RunID: | AA1_110817B | QC Batch: | 74969 | PrepDate: | 8/17/2011 | Analyst: VV |
| Mercury | ND | 0.10 | mg/Kg | 1 | 8/17/2011 05:48 PM | |

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



Advanced Technology
Laboratories

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

CLIENT: Mactec
 Work Order: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

| Sample ID: MB-74967 | SampType: MBLK | TestCode: 6010_S | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135882 | | | | | | |
|----------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBS | Batch ID: 74967 | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 8/17/2011 | SeqNo: 2226294 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|------------|----|-----|--|--|--|--|--|--|--|--|--|
| Antimony | ND | 2.0 | | | | | | | | | |
| Arsenic | ND | 1.0 | | | | | | | | | |
| Barium | ND | 1.0 | | | | | | | | | |
| Beryllium | ND | 1.0 | | | | | | | | | |
| Cadmium | ND | 1.0 | | | | | | | | | |
| Chromium | ND | 1.0 | | | | | | | | | |
| Cobalt | ND | 1.0 | | | | | | | | | |
| Copper | ND | 2.0 | | | | | | | | | |
| Lead | ND | 1.0 | | | | | | | | | |
| Molybdenum | ND | 1.0 | | | | | | | | | |
| Nickel | ND | 1.0 | | | | | | | | | |
| Selenium | ND | 1.0 | | | | | | | | | |
| Silver | ND | 1.0 | | | | | | | | | |
| Thallium | ND | 1.0 | | | | | | | | | |
| Vanadium | ND | 1.0 | | | | | | | | | |
| Zinc | ND | 1.0 | | | | | | | | | |

| Sample ID: LCS-74967 | SampType: LCS | TestCode: 6010_S | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135882 | | | | | | |
|-----------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 74967 | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 8/17/2011 | SeqNo: 2226295 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-----------|--------|-----|-------|---|------|----|-----|--|--|--|--|
| Antimony | 47.649 | 2.0 | 50.00 | 0 | 95.3 | 80 | 120 | | | | |
| Arsenic | 47.241 | 1.0 | 50.00 | 0 | 94.5 | 80 | 120 | | | | |
| Barium | 48.799 | 1.0 | 50.00 | 0 | 97.6 | 80 | 120 | | | | |
| Beryllium | 48.168 | 1.0 | 50.00 | 0 | 96.3 | 80 | 120 | | | | |
| Cadmium | 47.486 | 1.0 | 50.00 | 0 | 95.0 | 80 | 120 | | | | |
| Chromium | 44.996 | 1.0 | 50.00 | 0 | 90.0 | 80 | 120 | | | | |
| Cobalt | 48.955 | 1.0 | 50.00 | 0 | 97.9 | 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: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

| Sample ID: LCS-74967 | | SampType: LCS | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 8/17/2011 | | RunNo: 135882 | | |
|-----------------------------|--------|------------------------|-----------|------------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: LCSS | | Batch ID: 74967 | | TestNo: EPA 6010B EPA 3050B | | | | Analysis Date: 8/17/2011 | | SeqNo: 2226295 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Copper | 48.807 | 2.0 | 50.00 | 0 | 97.6 | 80 | 120 | | | | | |
| Lead | 48.948 | 1.0 | 50.00 | 0 | 97.9 | 80 | 120 | | | | | |
| Molybdenum | 51.030 | 1.0 | 50.00 | 0 | 102 | 80 | 120 | | | | | |
| Nickel | 47.829 | 1.0 | 50.00 | 0 | 95.7 | 80 | 120 | | | | | |
| Selenium | 45.544 | 1.0 | 50.00 | 0 | 91.1 | 80 | 120 | | | | | |
| Silver | 48.144 | 1.0 | 50.00 | 0 | 96.3 | 80 | 120 | | | | | |
| Thallium | 47.070 | 1.0 | 50.00 | 0 | 94.1 | 80 | 120 | | | | | |
| Vanadium | 48.442 | 1.0 | 50.00 | 0 | 96.9 | 80 | 120 | | | | | |
| Zinc | 48.690 | 1.0 | 50.00 | 0 | 97.4 | 80 | 120 | | | | | |

| Sample ID: 119297-015A-MS | | SampType: MS | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 8/17/2011 | | RunNo: 135882 | | |
|----------------------------------|---------|------------------------|-----------|------------------------------------|------|---------------------|-----------|---------------------------------|------|-----------------------|------|--|
| Client ID: ZZZZZZ | | Batch ID: 74967 | | TestNo: EPA 6010B EPA 3050B | | | | Analysis Date: 8/17/2011 | | SeqNo: 2226297 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Antimony | 94.945 | 2.0 | 125.0 | 0.2939 | 75.7 | 32 | 105 | | | | | |
| Arsenic | 102.682 | 1.0 | 125.0 | 1.383 | 81.0 | 49 | 106 | | | | | |
| Barium | 162.464 | 1.0 | 125.0 | 59.09 | 82.7 | 31 | 133 | | | | | |
| Beryllium | 103.496 | 1.0 | 125.0 | 0 | 82.8 | 56 | 106 | | | | | |
| Cadmium | 97.177 | 1.0 | 125.0 | 0.8498 | 77.1 | 51 | 103 | | | | | |
| Chromium | 106.839 | 1.0 | 125.0 | 8.448 | 78.7 | 45 | 114 | | | | | |
| Cobalt | 109.113 | 1.0 | 125.0 | 3.916 | 84.2 | 52 | 106 | | | | | |
| Copper | 118.548 | 2.0 | 125.0 | 6.663 | 89.5 | 54 | 125 | | | | | |
| Lead | 106.293 | 1.0 | 125.0 | 4.707 | 81.3 | 34 | 126 | | | | | |
| Molybdenum | 105.089 | 1.0 | 125.0 | 0.5549 | 83.6 | 54 | 106 | | | | | |
| Nickel | 111.331 | 1.0 | 125.0 | 9.124 | 81.8 | 45 | 111 | | | | | |
| Selenium | 98.364 | 1.0 | 125.0 | 0 | 78.7 | 47 | 104 | | | | | |
| Silver | 105.481 | 1.0 | 125.0 | 0 | 84.4 | 56 | 112 | | | | | |
| Thallium | 97.613 | 1.0 | 125.0 | 0 | 78.1 | 46 | 101 | | | | | |
| Vanadium | 122.770 | 1.0 | 125.0 | 17.10 | 84.5 | 54 | 114 | | | | | |
| Zinc | 134.540 | 1.0 | 125.0 | 34.57 | 80.0 | 28 | 125 | | | | | |

Qualifiers:

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



CLIENT: Mactec
 Work Order: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

| Sample ID: 119297-015A-MSD | | SampType: MSD | | TestCode: 6010_S | | Units: mg/Kg | | Prep Date: 8/17/2011 | | RunNo: 135882 | |
|----------------------------|---------|-----------------|-----------|-----------------------------|------|--------------------------|-----------|----------------------|-------|---------------|------|
| Client ID: ZZZZZZ | | Batch ID: 74967 | | TestNo: EPA 6010B EPA 3050B | | Analysis Date: 8/17/2011 | | SeqNo: 2226298 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Antimony | 93.745 | 2.0 | 125.0 | 0.2939 | 74.8 | 32 | 105 | 94.95 | 1.27 | 20 | |
| Arsenic | 101.068 | 1.0 | 125.0 | 1.383 | 79.7 | 49 | 106 | 102.7 | 1.58 | 20 | |
| Barium | 163.866 | 1.0 | 125.0 | 59.09 | 83.8 | 31 | 133 | 162.5 | 0.860 | 20 | |
| Beryllium | 100.542 | 1.0 | 125.0 | 0 | 80.4 | 56 | 106 | 103.5 | 2.90 | 20 | |
| Cadmium | 96.231 | 1.0 | 125.0 | 0.8498 | 76.3 | 51 | 103 | 97.18 | 0.978 | 20 | |
| Chromium | 105.721 | 1.0 | 125.0 | 8.448 | 77.8 | 45 | 114 | 106.8 | 1.05 | 20 | |
| Cobalt | 108.061 | 1.0 | 125.0 | 3.916 | 83.3 | 52 | 106 | 109.1 | 0.968 | 20 | |
| Copper | 117.823 | 2.0 | 125.0 | 6.663 | 88.9 | 54 | 125 | 118.5 | 0.613 | 20 | |
| Lead | 104.105 | 1.0 | 125.0 | 4.707 | 79.5 | 34 | 126 | 106.3 | 2.08 | 20 | |
| Molybdenum | 105.724 | 1.0 | 125.0 | 0.5549 | 84.1 | 54 | 106 | 105.1 | 0.603 | 20 | |
| Nickel | 109.941 | 1.0 | 125.0 | 9.124 | 80.7 | 45 | 111 | 111.3 | 1.26 | 20 | |
| Selenium | 96.995 | 1.0 | 125.0 | 0 | 77.6 | 47 | 104 | 98.36 | 1.40 | 20 | |
| Silver | 104.433 | 1.0 | 125.0 | 0 | 83.5 | 56 | 112 | 105.5 | 0.998 | 20 | |
| Thallium | 95.917 | 1.0 | 125.0 | 0 | 76.7 | 46 | 101 | 97.61 | 1.75 | 20 | |
| Vanadium | 122.413 | 1.0 | 125.0 | 17.10 | 84.3 | 54 | 114 | 122.8 | 0.291 | 20 | |
| Zinc | 132.354 | 1.0 | 125.0 | 34.57 | 78.2 | 28 | 125 | 134.5 | 1.64 | 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: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

| | | | | | | | | | | | |
|----------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-74969 | SampType: MBLK | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135903 | | | | | | |
| Client ID: PBS | Batch ID: 74969 | TestNo: EPA 7471A | | Analysis Date: 8/17/2011 | SeqNo: 2226838 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury ND 0.10

| | | | | | | | | | | | |
|-----------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-74969 | SampType: LCS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135903 | | | | | | |
| Client ID: LCSS | Batch ID: 74969 | TestNo: EPA 7471A | | Analysis Date: 8/17/2011 | SeqNo: 2226839 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.817 0.10 0.8300 0 98.4 80 120

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119415-020A-MS | SampType: MS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135903 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: 74969 | TestNo: EPA 7471A | | Analysis Date: 8/17/2011 | SeqNo: 2226840 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.793 0.10 0.8300 0.05109 89.3 70 130

| | | | | | | | | | | | |
|-----------------------------------|------------------------|--------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119415-020A-MSD | SampType: MSD | TestCode: 7471_S | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135903 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: 74969 | TestNo: EPA 7471A | | Analysis Date: 8/17/2011 | SeqNo: 2226841 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Mercury 0.835 0.10 0.8300 0.05109 94.5 70 130 0.7926 5.26 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: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM H

| | | | | | | | | | | | |
|----------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-74985 | SampType: MBLK | TestCode: 8015_S_DM H | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135896 | | | | | | |
| Client ID: PBS | Batch ID: 74985 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 8/17/2011 | SeqNo: 2226605 | | | | | | |
| 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 | 72.230 | | 80.00 | | 90.3 | 63 | 152 | | | | |

| | | | | | | | | | | | |
|-----------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-74985 | SampType: LCS | TestCode: 8015_S_DM H | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135896 | | | | | | |
| Client ID: LCSS | Batch ID: 74985 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 8/17/2011 | SeqNo: 2226606 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|---------|----|-------|---|------|----|-----|--|--|--|--|
| DRO | 911.880 | 10 | 1000 | 0 | 91.2 | 76 | 139 | | | | |
| Surr: p-Terphenyl | 87.200 | | 80.00 | | 109 | 63 | 152 | | | | |

| | | | | | | | | | | | |
|---------------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119413-002AMS | SampType: MS | TestCode: 8015_S_DM H | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135896 | | | | | | |
| Client ID: E-132-15' | Batch ID: 74985 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 8/17/2011 | SeqNo: 2226607 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|---------|----|-------|---|------|----|-----|--|--|--|--|
| DRO | 838.400 | 10 | 1000 | 0 | 83.8 | 60 | 158 | | | | |
| Surr: p-Terphenyl | 81.050 | | 80.00 | | 101 | 63 | 152 | | | | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|---------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119413-002AMSD | SampType: MSD | TestCode: 8015_S_DM H | Units: mg/Kg | Prep Date: 8/17/2011 | RunNo: 135896 | | | | | | |
| Client ID: E-132-15' | Batch ID: 74985 | TestNo: EPA 8015B(M LUFT | | Analysis Date: 8/17/2011 | SeqNo: 2226608 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------|---------|----|-------|---|------|----|-----|-------|------|----|--|
| DRO | 935.690 | 10 | 1000 | 0 | 93.6 | 60 | 158 | 838.4 | 11.0 | 20 | |
| Surr: p-Terphenyl | 77.650 | | 80.00 | | 97.1 | 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: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_G 5035P

| | | | | | | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: E110816LC1 | SampType: LCS | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 135875 | | | | | | |
| Client ID: LCSS | Batch ID: E11VS300 | TestNo: EPA 8015B(M) | Analysis Date: 8/16/2011 | SeqNo: 2227661 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 5.016 | 1.0 | 5.000 | 0 | 100 | 70 | 130 | | | | |
| Surr: Bromofluorobenzene (FID) | 114.972 | | 100.0 | | 115 | 51 | 161 | | | | |

| | | | | | | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: E110816MB1MS | SampType: MS | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 135875 | | | | | | |
| Client ID: ZZZZZ | Batch ID: E11VS300 | TestNo: EPA 8015B(M) | Analysis Date: 8/16/2011 | SeqNo: 2227662 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 4.927 | 1.0 | 5.000 | 0 | 98.5 | 41 | 146 | | | | |
| Surr: Bromofluorobenzene (FID) | 104.726 | | 100.0 | | 105 | 51 | 161 | | | | |

| | | | | | | | | | | | |
|---------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: E110816MB1MSD | SampType: MSD | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 135875 | | | | | | |
| Client ID: ZZZZZ | Batch ID: E11VS300 | TestNo: EPA 8015B(M) | Analysis Date: 8/16/2011 | SeqNo: 2227663 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 4.786 | 1.0 | 5.000 | 0 | 95.7 | 41 | 146 | 4.927 | 2.90 | 20 | |
| Surr: Bromofluorobenzene (FID) | 114.614 | | 100.0 | | 115 | 51 | 161 | | 0 | 0 | |

| | | | | | | | | | | | |
|--------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: E110816MB1 | SampType: MBLK | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 135875 | | | | | | |
| Client ID: PBS | Batch ID: E11VS300 | TestNo: EPA 8015B(M) | Analysis Date: 8/16/2011 | SeqNo: 2227664 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | ND | 1.0 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 81.205 | | 100.0 | | 81.2 | 51 | 161 | | | | |

| | | | | | | | | | | | |
|---------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119407-003AMS | SampType: MS | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 135875 | | | | | | |
| Client ID: ZZZZZ | Batch ID: E11VS300 | TestNo: EPA 8015B(M) | Analysis Date: 8/16/2011 | SeqNo: 2227668 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.992 | 1.0 | 5.000 | 0.5100 | 29.6 | 41 | 146 | | | | S |

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: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_G 5035P

| | | | | | | | | | | | |
|---------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119407-003AMS | SampType: MS | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 135875 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: E11VS300 | TestNo: EPA 8015B(M) | Analysis Date: 8/16/2011 | SeqNo: 2227668 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: Bromofluorobenzene (FID) | 94.440 | | 100.0 | | 94.4 | 51 | 161 | | | | |

| | | | | | | | | | | | |
|----------------------------------|---------------------------|------------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 119407-003AMSD | SampType: MSD | TestCode: 8015_S_G 50 | Units: mg/Kg | Prep Date: | RunNo: 135875 | | | | | | |
| Client ID: ZZZZZZ | Batch ID: E11VS300 | TestNo: EPA 8015B(M) | Analysis Date: 8/16/2011 | SeqNo: 2227669 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.187 | 1.0 | 5.000 | 0.5100 | 13.5 | 41 | 146 | 1.992 | 50.6 | 20 | SR |
| Surr: Bromofluorobenzene (FID) | 84.697 | | 100.0 | | 84.7 | 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: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| Sample ID: T110816LCS1 | | SampType: LCS | | TestCode: 8260_S_5035 Units: µg/Kg | | Prep Date: | | RunNo: 135848 | | | |
|-------------------------------|---------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: T11VS150 | | TestNo: EPA 8260B | | Analysis Date: 8/16/2011 | | SeqNo: 2226892 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 44.550 | 5.0 | 50.00 | 0 | 89.1 | 70 | 130 | | | | |
| Benzene | 95.820 | 5.0 | 100.0 | 0 | 95.8 | 70 | 130 | | | | |
| Chlorobenzene | 54.700 | 5.0 | 50.00 | 0 | 109 | 70 | 130 | | | | |
| MTBE | 50.080 | 5.0 | 50.00 | 0 | 100 | 70 | 130 | | | | |
| Toluene | 100.220 | 5.0 | 100.0 | 0 | 100 | 70 | 130 | | | | |
| Trichloroethene | 51.650 | 5.0 | 50.00 | 0 | 103 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 43.170 | | 50.00 | | 86.3 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 44.400 | | 50.00 | | 88.8 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 49.740 | | 50.00 | | 99.5 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 47.910 | | 50.00 | | 95.8 | 72 | 123 | | | | |

| Sample ID: T110816MB1MS | | SampType: MS | | TestCode: 8260_S_5035 Units: µg/Kg | | Prep Date: | | RunNo: 135848 | | | |
|--------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: ZZZZZ | | Batch ID: T11VS150 | | TestNo: EPA 8260B | | Analysis Date: 8/16/2011 | | SeqNo: 2226894 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 39.520 | 5.0 | 50.00 | 0 | 79.0 | 70 | 130 | | | | |
| Benzene | 92.080 | 5.0 | 100.0 | 0 | 92.1 | 70 | 130 | | | | |
| Chlorobenzene | 50.640 | 5.0 | 50.00 | 0 | 101 | 70 | 130 | | | | |
| MTBE | 45.410 | 5.0 | 50.00 | 0 | 90.8 | 70 | 130 | | | | |
| Toluene | 97.810 | 5.0 | 100.0 | 0 | 97.8 | 70 | 130 | | | | |
| Trichloroethene | 48.590 | 5.0 | 50.00 | 0 | 97.2 | 70 | 130 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 40.290 | | 50.00 | | 80.6 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 42.850 | | 50.00 | | 85.7 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 45.370 | | 50.00 | | 90.7 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 46.720 | | 50.00 | | 93.4 | 72 | 123 | | | | |

| Sample ID: T110816MB1MSD | | SampType: MSD | | TestCode: 8260_S_5035 Units: µg/Kg | | Prep Date: | | RunNo: 135848 | | | |
|---------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: ZZZZZ | | Batch ID: T11VS150 | | TestNo: EPA 8260B | | Analysis Date: 8/16/2011 | | SeqNo: 2226895 | | | |
| 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: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| Sample ID: T110816MB1MSD | SampType: MSD | TestCode: 8260_S_5035 | Units: µg/Kg | Prep Date: | RunNo: 135848 | | | | | | |
|---------------------------------|---------------------------|------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: ZZZZZ | Batch ID: T11VS150 | TestNo: EPA 8260B | | Analysis Date: 8/16/2011 | SeqNo: 2226895 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 41.590 | 5.0 | 50.00 | 0 | 83.2 | 70 | 130 | 39.52 | 5.10 | 20 | |
| Benzene | 94.680 | 5.0 | 100.0 | 0 | 94.7 | 70 | 130 | 92.08 | 2.78 | 20 | |
| Chlorobenzene | 53.610 | 5.0 | 50.00 | 0 | 107 | 70 | 130 | 50.64 | 5.70 | 20 | |
| MTBE | 49.420 | 5.0 | 50.00 | 0 | 98.8 | 70 | 130 | 45.41 | 8.46 | 20 | |
| Toluene | 100.910 | 5.0 | 100.0 | 0 | 101 | 70 | 130 | 97.81 | 3.12 | 20 | |
| Trichloroethene | 49.200 | 5.0 | 50.00 | 0 | 98.4 | 70 | 130 | 48.59 | 1.25 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 41.900 | | 50.00 | | 83.8 | 65 | 141 | | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 43.200 | | 50.00 | | 86.4 | 57 | 134 | | 0 | 0 | |
| Surr: Dibromofluoromethane | 46.670 | | 50.00 | | 93.3 | 70 | 128 | | 0 | 0 | |
| Surr: Toluene-d8 | 46.980 | | 50.00 | | 94.0 | 72 | 123 | | 0 | 0 | |

| Sample ID: T110816MB1 | SampType: MBLK | TestCode: 8260_S_5035 | Units: µg/Kg | Prep Date: | RunNo: 135848 | | | | | | |
|------------------------------|---------------------------|------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBS | Batch ID: T11VS150 | TestNo: EPA 8260B | | Analysis Date: 8/16/2011 | SeqNo: 2226896 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 5.0 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 5.0 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 10 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 5.0 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | | | | | | | | | |

Qualifiers:

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



CLIENT: Mactec
 Work Order: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| Sample ID: T110816MB1 | | SampType: MBLK | | TestCode: 8260_S_5035 Units: µg/Kg | | Prep Date: | | RunNo: 135848 | | | |
|------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: PBS | | Batch ID: T11VS150 | | TestNo: EPA 8260B | | Analysis Date: 8/16/2011 | | SeqNo: 2226896 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,2-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 5.0 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 5.0 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 5.0 | | | | | | | | | |
| 2-Chlorotoluene | ND | 5.0 | | | | | | | | | |
| 4-Chlorotoluene | ND | 5.0 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 5.0 | | | | | | | | | |
| Benzene | ND | 5.0 | | | | | | | | | |
| Bromobenzene | ND | 5.0 | | | | | | | | | |
| Bromodichloromethane | ND | 5.0 | | | | | | | | | |
| Bromoform | ND | 5.0 | | | | | | | | | |
| Bromomethane | ND | 5.0 | | | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | | | | | | | | | |
| Chlorobenzene | ND | 5.0 | | | | | | | | | |
| Chloroethane | ND | 5.0 | | | | | | | | | |
| Chloroform | ND | 5.0 | | | | | | | | | |
| Chloromethane | ND | 5.0 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 5.0 | | | | | | | | | |
| Di-isopropyl ether | ND | 5.0 | | | | | | | | | |
| Dibromochloromethane | ND | 5.0 | | | | | | | | | |
| Dibromomethane | ND | 5.0 | | | | | | | | | |
| Dichlorodifluoromethane | ND | 5.0 | | | | | | | | | |
| Ethyl Tert-butyl ether | ND | 5.0 | | | | | | | | | |
| Ethylbenzene | ND | 5.0 | | | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | | | | | | | | | |
| Isopropylbenzene | ND | 5.0 | | | | | | | | | |
| m,p-Xylene | ND | 10 | | | | | | | | | |

Qualifiers:

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



CLIENT: Mactec
 Work Order: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

| Sample ID: T110816MB1 | | SampType: MBLK | | TestCode: 8260_S_5035 Units: µg/Kg | | Prep Date: | | RunNo: 135848 | | | |
|------------------------------|--------|---------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: PBS | | Batch ID: T11VS150 | | TestNo: EPA 8260B | | Analysis Date: 8/16/2011 | | SeqNo: 2226896 | | | |
| 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 | 40.880 | | 50.00 | | 81.8 | 65 | 141 | | | | |
| Surr: 4-Bromofluorobenzene | 42.440 | | 50.00 | | 84.9 | 57 | 134 | | | | |
| Surr: Dibromofluoromethane | 45.750 | | 50.00 | | 91.5 | 70 | 128 | | | | |
| Surr: Toluene-d8 | 47.550 | | 50.00 | | 95.1 | 72 | 123 | | | | |

Qualifiers:

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



CLIENT: Mactec
 Work Order: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

| Sample ID: MB-75003 | SampType: MBLK | TestCode: 8270_S_FULL | Units: µg/Kg | Prep Date: 8/18/2011 | RunNo: 135998 | | | | | | |
|----------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBS | Batch ID: 75003 | TestNo: EPA 8270C EPA 3550B | | Analysis Date: 8/22/2011 | SeqNo: 2228550 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,2,4-Trichlorobenzene | ND | 330 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 330 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 330 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 330 | | | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 330 | | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 330 | | | | | | | | | |
| 2,4-Dichlorophenol | ND | 1600 | | | | | | | | | |
| 2,4-Dimethylphenol | ND | 330 | | | | | | | | | |
| 2,4-Dinitrophenol | ND | 1600 | | | | | | | | | |
| 2,4-Dinitrotoluene | ND | 330 | | | | | | | | | |
| 2,6-Dinitrotoluene | ND | 330 | | | | | | | | | |
| 2-Chloronaphthalene | ND | 330 | | | | | | | | | |
| 2-Chlorophenol | ND | 330 | | | | | | | | | |
| 2-Methylnaphthalene | ND | 330 | | | | | | | | | |
| 2-Methylphenol | ND | 330 | | | | | | | | | |
| 2-Nitroaniline | ND | 1600 | | | | | | | | | |
| 2-Nitrophenol | ND | 330 | | | | | | | | | |
| 3,3'-Dichlorobenzidine | ND | 660 | | | | | | | | | |
| 3-Nitroaniline | ND | 1600 | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 1600 | | | | | | | | | |
| 4-Bromophenyl-phenylether | ND | 330 | | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 660 | | | | | | | | | |
| 4-Chloroaniline | ND | 660 | | | | | | | | | |
| 4-Chlorophenyl-phenylether | ND | 330 | | | | | | | | | |
| 4-Methylphenol | ND | 330 | | | | | | | | | |
| 4-Nitroaniline | ND | 1600 | | | | | | | | | |
| 4-Nitrophenol | ND | 1600 | | | | | | | | | |
| Acenaphthene | ND | 330 | | | | | | | | | |
| Acenaphthylene | ND | 330 | | | | | | | | | |
| Anthracene | ND | 330 | | | | | | | | | |

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: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

| Sample ID: MB-75003 | SampType: MBLK | TestCode: 8270_S_FULL Units: µg/Kg | Prep Date: 8/18/2011 | RunNo: 135998 | | | | | | | |
|-----------------------------|------------------------|--|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: PBS | Batch ID: 75003 | TestNo: EPA 8270C EPA 3550B | Analysis Date: 8/22/2011 | SeqNo: 2228550 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzidine (M) | ND | 1600 | | | | | | | | | |
| Benzo(a)anthracene | ND | 330 | | | | | | | | | |
| Benzo(a)pyrene | ND | 330 | | | | | | | | | |
| Benzo(b)fluoranthene | ND | 330 | | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 330 | | | | | | | | | |
| Benzo(k)fluoranthene | ND | 330 | | | | | | | | | |
| Benzoic acid | ND | 1600 | | | | | | | | | |
| Benzyl alcohol | ND | 660 | | | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 330 | | | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 330 | | | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 330 | | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 330 | | | | | | | | | |
| Butylbenzylphthalate | ND | 330 | | | | | | | | | |
| Chrysene | ND | 330 | | | | | | | | | |
| Di-n-butylphthalate | ND | 330 | | | | | | | | | |
| Di-n-octylphthalate | ND | 330 | | | | | | | | | |
| Dibenz(a,h)anthracene | ND | 330 | | | | | | | | | |
| Dibenzofuran | ND | 330 | | | | | | | | | |
| Diethylphthalate | ND | 330 | | | | | | | | | |
| Dimethylphthalate | ND | 330 | | | | | | | | | |
| Fluoranthene | ND | 330 | | | | | | | | | |
| Fluorene | ND | 330 | | | | | | | | | |
| Hexachlorobenzene | ND | 330 | | | | | | | | | |
| Hexachlorobutadiene | ND | 660 | | | | | | | | | |
| Hexachlorocyclopentadiene | ND | 660 | | | | | | | | | |
| Hexachloroethane | ND | 330 | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 330 | | | | | | | | | |
| Isophorone | ND | 330 | | | | | | | | | |
| N-Nitrosodi-n-propylamine | ND | 330 | | | | | | | | | |
| N-Nitrosodiphenylamine | ND | 330 | | | | | | | | | |

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: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

| Sample ID: MB-75003 | | SampType: MBLK | | TestCode: 8270_S_FULL Units: µg/Kg | | | Prep Date: 8/18/2011 | | RunNo: 135998 | | |
|------------------------------|----------|------------------------|-----------|--|------|----------|---------------------------------|-------------|-----------------------|----------|------|
| Client ID: PBS | | Batch ID: 75003 | | TestNo: EPA 8270C EPA 3550B | | | Analysis Date: 8/22/2011 | | SeqNo: 2228550 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Naphthalene | ND | 330 | | | | | | | | | |
| Nitrobenzene | ND | 330 | | | | | | | | | |
| Pentachlorophenol | ND | 1600 | | | | | | | | | |
| Phenanthrene | ND | 330 | | | | | | | | | |
| Phenol | ND | 330 | | | | | | | | | |
| Pyrene | ND | 330 | | | | | | | | | |
| Surr: 1,2-Dichlorobenzene-d4 | 2527.667 | | 3330 | | 75.9 | 45 | 105 | | | | |
| Surr: 2,4,6-Tribromophenol | 2311.000 | | 3330 | | 69.4 | 41 | 129 | | | | |
| Surr: 2-Chlorophenol-d4 | 2615.667 | | 3330 | | 78.5 | 55 | 108 | | | | |
| Surr: 2-Fluorobiphenyl | 2663.333 | | 3330 | | 80.0 | 56 | 114 | | | | |
| Surr: 2-Fluorophenol | 2691.000 | | 3330 | | 80.8 | 50 | 108 | | | | |
| Surr: 4-Terphenyl-d14 | 2636.667 | | 3330 | | 79.2 | 59 | 141 | | | | |
| Surr: Nitrobenzene-d5 | 2642.000 | | 3330 | | 79.3 | 45 | 114 | | | | |
| Surr: Phenol-d5 | 2789.667 | | 3330 | | 83.8 | 46 | 118 | | | | |

| Sample ID: LCS-75003 | | SampType: LCS | | TestCode: 8270_S_FULL Units: µg/Kg | | | Prep Date: 8/18/2011 | | RunNo: 135998 | | |
|-----------------------------|----------|------------------------|-----------|--|------|----------|---------------------------------|-------------|-----------------------|----------|------|
| Client ID: LCSS | | Batch ID: 75003 | | TestNo: EPA 8270C EPA 3550B | | | Analysis Date: 8/22/2011 | | SeqNo: 2228551 | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,2,4-Trichlorobenzene | 2682.000 | 330 | 3330 | 0 | 80.5 | 67 | 107 | | | | |
| 1,4-Dichlorobenzene | 2667.333 | 330 | 3330 | 0 | 80.1 | 64 | 99 | | | | |
| 2,4-Dinitrotoluene | 3240.000 | 330 | 3330 | 0 | 97.3 | 81 | 122 | | | | |
| 2-Chlorophenol | 2624.333 | 330 | 3330 | 0 | 78.8 | 62 | 112 | | | | |
| 4-Chloro-3-methylphenol | 2986.000 | 660 | 3330 | 0 | 89.7 | 64 | 138 | | | | |
| 4-Nitrophenol | 3165.667 | 1600 | 3330 | 0 | 95.1 | 60 | 142 | | | | |
| Acenaphthene | 2966.667 | 330 | 3330 | 0 | 89.1 | 70 | 116 | | | | |
| N-Nitrosodi-n-propylamine | 2797.000 | 330 | 3330 | 0 | 84.0 | 73 | 115 | | | | |
| Pentachlorophenol | 2518.333 | 1600 | 3330 | 0 | 75.6 | 59 | 135 | | | | |
| Phenol | 2859.667 | 330 | 3330 | 0 | 85.9 | 61 | 120 | | | | |
| Pyrene | 3235.000 | 330 | 3330 | 0 | 97.1 | 75 | 117 | | | | |

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: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

| Sample ID: LCS-75003 | | SampType: LCS | | TestCode: 8270_S_FULL Units: µg/Kg | | Prep Date: 8/18/2011 | | RunNo: 135998 | | | |
|------------------------------|----------|------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: LCSS | | Batch ID: 75003 | | TestNo: EPA 8270C EPA 3550B | | Analysis Date: 8/22/2011 | | SeqNo: 2228551 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichlorobenzene-d4 | 2724.667 | | 3330 | | 81.8 | 45 | 105 | | | | |
| Surr: 2,4,6-Tribromophenol | 3048.333 | | 3330 | | 91.5 | 41 | 129 | | | | |
| Surr: 2-Chlorophenol-d4 | 2906.667 | | 3330 | | 87.3 | 55 | 108 | | | | |
| Surr: 2-Fluorobiphenyl | 2793.667 | | 3330 | | 83.9 | 56 | 114 | | | | |
| Surr: 2-Fluorophenol | 2917.000 | | 3330 | | 87.6 | 50 | 108 | | | | |
| Surr: 4-Terphenyl-d14 | 2573.667 | | 3330 | | 77.3 | 59 | 141 | | | | |
| Surr: Nitrobenzene-d5 | 2943.333 | | 3330 | | 88.4 | 45 | 114 | | | | |
| Surr: Phenol-d5 | 3026.667 | | 3330 | | 90.9 | 46 | 118 | | | | |

| Sample ID: 119413-002AMS | | SampType: MS | | TestCode: 8270_S_FULL Units: µg/Kg | | Prep Date: 8/18/2011 | | RunNo: 135998 | | | |
|---------------------------------|----------|------------------------|-----------|--|------|---------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: E-132-15' | | Batch ID: 75003 | | TestNo: EPA 8270C EPA 3550B | | Analysis Date: 8/22/2011 | | SeqNo: 2228552 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,2,4-Trichlorobenzene | 2604.000 | 330 | 3330 | 0 | 78.2 | 62 | 109 | | | | |
| 1,4-Dichlorobenzene | 2535.667 | 330 | 3330 | 0 | 76.1 | 57 | 99 | | | | |
| 2,4-Dinitrotoluene | 3308.000 | 330 | 3330 | 0 | 99.3 | 76 | 126 | | | | |
| 2-Chlorophenol | 2547.667 | 330 | 3330 | 0 | 76.5 | 52 | 120 | | | | |
| 4-Chloro-3-methylphenol | 2943.000 | 660 | 3330 | 0 | 88.4 | 63 | 137 | | | | |
| 4-Nitrophenol | 3234.000 | 1600 | 3330 | 0 | 97.1 | 52 | 144 | | | | |
| Acenaphthene | 2985.000 | 330 | 3330 | 0 | 89.6 | 61 | 121 | | | | |
| N-Nitrosodi-n-propylamine | 2783.667 | 330 | 3330 | 0 | 83.6 | 67 | 116 | | | | |
| Pentachlorophenol | 2647.000 | 1600 | 3330 | 0 | 79.5 | 47 | 143 | | | | |
| Phenol | 2768.333 | 330 | 3330 | 0 | 83.1 | 54 | 126 | | | | |
| Pyrene | 3316.333 | 330 | 3330 | 0 | 99.6 | 68 | 121 | | | | |
| Surr: 1,2-Dichlorobenzene-d4 | 2622.667 | | 3330 | | 78.8 | 45 | 105 | | | | |
| Surr: 2,4,6-Tribromophenol | 3141.000 | | 3330 | | 94.3 | 41 | 129 | | | | |
| Surr: 2-Chlorophenol-d4 | 2801.667 | | 3330 | | 84.1 | 55 | 108 | | | | |
| Surr: 2-Fluorobiphenyl | 2764.667 | | 3330 | | 83.0 | 56 | 114 | | | | |
| Surr: 2-Fluorophenol | 2726.333 | | 3330 | | 81.9 | 50 | 108 | | | | |
| Surr: 4-Terphenyl-d14 | 2606.333 | | 3330 | | 78.3 | 59 | 141 | | | | |

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: 119413
 Project:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

| Sample ID: 119413-002AMS | SampType: MS | TestCode: 8270_S_FULL | Units: µg/Kg | Prep Date: 8/18/2011 | RunNo: 135998 | | | | | | |
|---------------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: E-132-15' | Batch ID: 75003 | TestNo: EPA 8270C EPA 3550B | | Analysis Date: 8/22/2011 | SeqNo: 2228552 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: Nitrobenzene-d5 | 2821.667 | | 3330 | | 84.7 | 45 | 114 | | | | |
| Surr: Phenol-d5 | 2919.000 | | 3330 | | 87.7 | 46 | 118 | | | | |

| Sample ID: 119413-002AMSD | SampType: MSD | TestCode: 8270_S_FULL | Units: µg/Kg | Prep Date: 8/18/2011 | RunNo: 135998 | | | | | | |
|----------------------------------|------------------------|------------------------------------|---------------------|---------------------------------|-----------------------|----------|-----------|-------------|--------|----------|------|
| Client ID: E-132-15' | Batch ID: 75003 | TestNo: EPA 8270C EPA 3550B | | Analysis Date: 8/22/2011 | SeqNo: 2228553 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,2,4-Trichlorobenzene | 2595.667 | 330 | 3330 | 0 | 77.9 | 62 | 109 | 2604 | 0.321 | 20 | |
| 1,4-Dichlorobenzene | 2481.000 | 330 | 3330 | 0 | 74.5 | 57 | 99 | 2536 | 2.18 | 20 | |
| 2,4-Dinitrotoluene | 3426.333 | 330 | 3330 | 0 | 103 | 76 | 126 | 3308 | 3.51 | 20 | |
| 2-Chlorophenol | 2462.333 | 330 | 3330 | 0 | 73.9 | 52 | 120 | 2548 | 3.41 | 20 | |
| 4-Chloro-3-methylphenol | 3033.000 | 660 | 3330 | 0 | 91.1 | 63 | 137 | 2943 | 3.01 | 20 | |
| 4-Nitrophenol | 3432.333 | 1600 | 3330 | 0 | 103 | 52 | 144 | 3234 | 5.95 | 20 | |
| Acenaphthene | 3110.667 | 330 | 3330 | 0 | 93.4 | 61 | 121 | 2985 | 4.12 | 20 | |
| N-Nitrosodi-n-propylamine | 2785.333 | 330 | 3330 | 0 | 83.6 | 67 | 116 | 2784 | 0.0599 | 20 | |
| Pentachlorophenol | 2587.667 | 1600 | 3330 | 0 | 77.7 | 47 | 143 | 2647 | 2.27 | 20 | |
| Phenol | 2720.000 | 330 | 3330 | 0 | 81.7 | 54 | 126 | 2768 | 1.76 | 20 | |
| Pyrene | 3415.000 | 330 | 3330 | 0 | 103 | 68 | 121 | 3316 | 2.93 | 20 | |
| Surr: 1,2-Dichlorobenzene-d4 | 2563.333 | | 3330 | | 77.0 | 45 | 105 | | 0 | 0 | |
| Surr: 2,4,6-Tribromophenol | 3262.000 | | 3330 | | 98.0 | 41 | 129 | | 0 | 0 | |
| Surr: 2-Chlorophenol-d4 | 2701.667 | | 3330 | | 81.1 | 55 | 108 | | 0 | 0 | |
| Surr: 2-Fluorobiphenyl | 2826.000 | | 3330 | | 84.9 | 56 | 114 | | 0 | 0 | |
| Surr: 2-Fluorophenol | 2654.667 | | 3330 | | 79.7 | 50 | 108 | | 0 | 0 | |
| Surr: 4-Terphenyl-d14 | 2648.667 | | 3330 | | 79.5 | 59 | 141 | | 0 | 0 | |
| Surr: Nitrobenzene-d5 | 2817.667 | | 3330 | | 84.6 | 45 | 114 | | 0 | 0 | |
| Surr: Phenol-d5 | 2830.667 | | 3330 | | 85.0 | 46 | 118 | | 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 | |

