

CHAIN OF CUSTODY RECORD

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

Client: **Mactec**
 Attn: **MATT FRAYCHINEAUD**

P.O.#: **201106374** Quote #: **1476**
 Logged By: _____ Date: **7/25/11**

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

FOR LABORATORY USE ONLY:
 Sample Condition Upon Receipt: **34**
 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

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

Address: **5628 E. SLAUSON AVE** State: **CA** Zip Code: **90040**
 City: **LOS ANGELES**

TEL: _____ FAX: _____

Project Name: **MERO WESTSIDE EXTENSION** Project #: **4953-10-1561** Sampler: **DUAN D. SWYDER**
 Relinquished by: (Signature and Printed Name) **DUAN D. SWYDER** Date: **7-25-11** Time: **7:00** Received by: (Signature and Printed Name) **Matt Fraychineaud** Date: **7/25/11** Time: **0700**
 Relinquished by: (Signature and Printed Name) **Matt Fraychineaud** Date: **7/25/11** Time: **1052** Received by: (Signature and Printed Name) **Matt Fraychineaud** Date: **7/25/11** Time: **1052**
 Relinquished by: (Signature and Printed Name) **Matt Fraychineaud** Date: **7/25/11** Time: **1645** Received by: (Signature and Printed Name) **Matt Fraychineaud** Date: **7/25/11** Time: **1645**

I hereby authorize ATL to perform the work indicated below:
 Project Mgr / Submitter: **Matt Fraychineaud**
 Print Name: **Matt Fraychineaud** Date: **7/25/11**
 Signature: _____

Send Report To: _____ Attn: **Matt Fraychineaud**
 Co: _____
 Addr: _____
 City: _____ State: _____ Zip: _____

Bill To: _____ Attn: _____
 Co: _____
 Addr: _____
 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)

ITEM	LAB USE ONLY:		Sample Description	
	Batch #:	Lab No.	Sample I.D. / Location	Date Time
	119116	007	E-108-15	7/22 10:12
			E-108-30	7/22 11:10
			E-108-50	7/22 12:55
			E-108-70	7/22 15:00
			E-108-10	7/22 10:00
			E-108-20	7/22 10:30
			E-108-25	7/22 10:50
			E-108-35	7/22 11:35
			E-108-40	7/22 11:55
			E-108-45	7/22 12:25

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX										Container(s) # Type	TAT	REMARKS		
					8081A (Pesticides)	8260B (PCB)	8270C (Nitrates)	6010B (Total Metal)	8015B (GRO)	8015B (DRO)	TITLE 22 / CAM 17 (6010 / 7000)	SEDIMENT	SOIL	DRINKING WATER				GROUND WATER	WASTEWATER
					X	X	X	X	X	X	X	X	X	X	X	X	E	7 TV	
					X	X	X	X	X	X	X	X	X	X	X	X	E	7 TV	
					X	X	X	X	X	X	X	X	X	X	X	X	E	7 TV	
					X	X	X	X	X	X	X	X	X	X	X	X	E	7 TV	
																	1 T		Hold
																	1 T		Hold
																	1 T		Hold
																	1 T		Hold
																	1 T		Hold
																	1 T		Hold


QA/QC
 RTNE CT Legal
 SWRCB Logcode OTHER _____

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

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal
 TAT: A= Overnight ≤ 24 hrs B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Figure I-1.295

CHAIN OF CUSTODY RECORD

 <p>ADVANCED TECHNOLOGY LABORATORIES 3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>	<p>P.O.#: <u>201106374</u> Quote #: <u>14716</u> Logged By: _____ Date: _____ NOTE: Please include your Quote No. to ensure proper pricing of your project.</p>	<p>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: _____</p> <p>Sample Condition Upon Receipt 1. CHILLED Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" 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 checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/></p>	<p>Client: <u>MACTEC</u> Attn: <u>MATT PRAYCHINEAUD</u> Address: <u>5628 E. SLAUSON AVE</u> City: <u>LOS ANGELES</u> State: <u>CA</u> Zip Code: <u>90046</u> TEL: _____ FAX: _____</p>
<p>Project Name: <u>METRO WESTSIDE EXTENSION</u> Relinquished by: <u>Dwain D. Snyder</u> (Signature and Printed Name) Date: <u>7-25-11</u> Time: <u>7:00</u> Relinquished by: <u>Matt Praychineaud</u> (Signature and Printed Name) Date: <u>7-25-11</u> Time: <u>10:52</u> Relinquished by: <u>Matt Praychineaud</u> (Signature and Printed Name) Date: <u>7-25-11</u> Time: <u>16:45</u></p>	<p>Project #: <u>4953-10-1561</u> Sampler: <u>Dwain D. Snyder</u> Date: <u>7-25-11</u> Time: <u>0700</u> Received by: <u>Matt Praychineaud</u> (Signature and Printed Name) Date: <u>7-25-11</u> Time: <u>10:52</u> Received by: <u>Matt Praychineaud</u> (Signature and Printed Name) Date: <u>7-25-11</u> Time: <u>16:45</u></p>	<p>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: _____</p>	<p>Client: <u>MACTEC</u> Attn: <u>MATT PRAYCHINEAUD</u> Address: <u>5628 E. SLAUSON AVE</u> City: <u>LOS ANGELES</u> State: <u>CA</u> Zip Code: <u>90046</u> TEL: _____ FAX: _____</p>
<p>I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: <u>Matt Praychineaud</u> (Signature) <u>Matt Praychineaud</u> (Print Name) Date: <u>7-25-11</u></p>	<p>Send Report To: Attn: <u>Matt Praychineaud</u> Co: _____ Addr: _____ City: _____ State: _____ Zip: _____</p>	<p>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: _____</p>	<p>Client: <u>MACTEC</u> Attn: <u>MATT PRAYCHINEAUD</u> Address: <u>5628 E. SLAUSON AVE</u> City: <u>LOS ANGELES</u> State: <u>CA</u> Zip Code: <u>90046</u> TEL: _____ FAX: _____</p>
<p>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)</p>	<p>Circle or Add Analysis(es) Requested 8081A (Pesticides) _____ 8082 (PCB) _____ 8200B (Volatiles) _____ 8270C (BNA) _____ 6010B (Total Metal) _____ 8015B (GRO) _____ 8015B (DRO) _____ TITLE 22 / CAM 17 (6010 / 7000) _____ 8091 (BTEX) _____ 8091 (BTEX) _____ 8091 (BTEX) _____</p>	<p>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: _____</p>	<p>Client: <u>MACTEC</u> Attn: <u>MATT PRAYCHINEAUD</u> Address: <u>5628 E. SLAUSON AVE</u> City: <u>LOS ANGELES</u> State: <u>CA</u> Zip Code: <u>90046</u> TEL: _____ FAX: _____</p>
<p>LAB USE ONLY: Batch #: _____ Lab No. <u>119116 - 11</u> Sample Description: <u>E-108-60</u> Date: <u>7/22</u> Time: _____</p>	<p>Container(s) Container # <u>17</u> Type _____ TAT _____</p>	<p>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: _____</p>	<p>Client: <u>MACTEC</u> Attn: <u>MATT PRAYCHINEAUD</u> Address: <u>5628 E. SLAUSON AVE</u> City: <u>LOS ANGELES</u> State: <u>CA</u> Zip Code: <u>90046</u> TEL: _____ FAX: _____</p>
<p>QA / QC RTNE <input type="checkbox"/> CT <input type="checkbox"/> Legal <input type="checkbox"/> SWRCB <input type="checkbox"/> Logcode <input type="checkbox"/> OTHER _____ REMARKS: <u>Holo</u></p>	<p>Container(s) Container # <u>17</u> Type _____ TAT _____</p>	<p>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: _____</p>	<p>Client: <u>MACTEC</u> Attn: <u>MATT PRAYCHINEAUD</u> Address: <u>5628 E. SLAUSON AVE</u> City: <u>LOS ANGELES</u> State: <u>CA</u> Zip Code: <u>90046</u> TEL: _____ FAX: _____</p>
<p>TAT starts 8 a.m. following day if samples received after 5 p.m. <input type="checkbox"/> A= Overnight ≤ 24 hrs <input type="checkbox"/> B= Emergency Next workday <input type="checkbox"/> C= Critical 2 Workdays <input type="checkbox"/> D= Urgent 3 Workdays <input checked="" type="checkbox"/> E= Routine 7 Workdays</p>	<p>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</p>	<p>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: _____</p>	<p>Client: <u>MACTEC</u> Attn: <u>MATT PRAYCHINEAUD</u> Address: <u>5628 E. SLAUSON AVE</u> City: <u>LOS ANGELES</u> State: <u>CA</u> Zip Code: <u>90046</u> TEL: _____ FAX: _____</p>

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

Figure I-1.296

August 31, 2011



Matt Fraychinead
AMEC
5628 E. Slauson Ave.
Los Angeles, CA 90040
TEL: (323) 229-5300
FAX:

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

Workorder No.: 119538

RE: MTA Westside, 4953-10-1561


Attention: Matt Fraychinead

Enclosed are the results for sample(s) received on August 24, 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: AMEC
Project: MTA Westside, 4953-10-1561
Lab Order: 119538

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.



Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 31-Aug-11

CLIENT: AMEC	Client Sample ID: E-109-20'
Lab Order: 119538	Collection Date: 8/24/2011 10:30:00 AM
Project: MTA Westside, 4953-10-1561	Matrix: SOIL
Lab ID: 119538-002A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	LUFT			EPA 8015B(M)		
RunID: GC16_110825D	QC Batch: 75145			PrepDate: 8/25/2011		Analyst: CBR
DRO	ND	10		mg/Kg	1	8/25/2011 06:03 PM
ORO	ND	10		mg/Kg	1	8/25/2011 06:03 PM
Surr: p-Terphenyl	64.6	63-152		%REC	1	8/25/2011 06:03 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: 31-Aug-11

CLIENT: AMEC	Client Sample ID: E-109-20'
Lab Order: 119538	Collection Date: 8/24/2011 3:30:00 PM
Project: MTA Westside, 4953-10-1561	Matrix: SOIL
Lab ID: 119538-002B	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110825A	QC Batch: T11VS157	PrepDate: 8/24/2011	Analyst: DDL		
1,1,1,2-Tetrachloroethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,1,1-Trichloroethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,1,2,2-Tetrachloroethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,1,2-Trichloroethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,1-Dichloroethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,1-Dichloroethene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,1-Dichloropropene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,2,3-Trichlorobenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,2,3-Trichloropropane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,2,4-Trichlorobenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,2,4-Trimethylbenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,2-Dibromo-3-chloropropane	ND	9.5	µg/Kg	1	8/25/2011 01:46 PM
1,2-Dibromoethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,2-Dichlorobenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,2-Dichloroethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,2-Dichloropropane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,3,5-Trimethylbenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,3-Dichlorobenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,3-Dichloropropane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
1,4-Dichlorobenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
2,2-Dichloropropane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
2-Chlorotoluene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
4-Chlorotoluene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
4-Isopropyltoluene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Benzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Bromobenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Bromodichloromethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Bromoform	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Bromomethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Carbon tetrachloride	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Chlorobenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Chloroethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Chloroform	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Chloromethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
cis-1,2-Dichloroethene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM

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



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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 31-Aug-11

CLIENT: AMEC	Client Sample ID: E-109-20'
Lab Order: 119538	Collection Date: 8/24/2011 3:30:00 PM
Project: MTA Westside, 4953-10-1561	Matrix: SOIL
Lab ID: 119538-002B	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110825A	QC Batch: T11VS157	PrepDate: 8/24/2011	Analyst: DDL		
cis-1,3-Dichloropropene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Di-isopropyl ether	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Dibromochloromethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Dibromomethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Dichlorodifluoromethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Ethyl Tert-butyl ether	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Ethylbenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Hexachlorobutadiene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Isopropylbenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
m,p-Xylene	ND	9.5	µg/Kg	1	8/25/2011 01:46 PM
Methylene chloride	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
MTBE	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
n-Butylbenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
n-Propylbenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Naphthalene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
o-Xylene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
sec-Butylbenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Styrene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Tert-amyl methyl ether	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Tert-Butanol	ND	95	µg/Kg	1	8/25/2011 01:46 PM
tert-Butylbenzene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Tetrachloroethene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Toluene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
trans-1,2-Dichloroethene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Trichloroethene	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Trichlorofluoromethane	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Vinyl chloride	ND	4.7	µg/Kg	1	8/25/2011 01:46 PM
Surr: 1,2-Dichloroethane-d4	104	65-141	%REC	1	8/25/2011 01:46 PM
Surr: 4-Bromofluorobenzene	88.8	57-134	%REC	1	8/25/2011 01:46 PM
Surr: Dibromofluoromethane	98.5	70-128	%REC	1	8/25/2011 01:46 PM
Surr: Toluene-d8	93.5	72-123	%REC	1	8/25/2011 01:46 PM

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



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Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 31-Aug-11

CLIENT: AMEC	Client Sample ID: E-109-20'
Lab Order: 119538	Collection Date: 8/24/2011 3:30:00 PM
Project: MTA Westside, 4953-10-1561	Matrix: SOIL
Lab ID: 119538-002E	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_110825A	QC Batch: E11VS308	PrepDate: 8/24/2011	Analyst: TP		
GRO	ND	0.83	mg/Kg	1	8/25/2011 02:51 PM
Surr: Bromofluorobenzene (FID)	120	51-161	%REC	1	8/25/2011 02:51 PM

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



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Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 31-Aug-11

CLIENT: AMEC	Client Sample ID: E-109-45'
Lab Order: 119538	Collection Date: 8/24/2011 1:00:00 PM
Project: MTA Westside, 4953-10-1561	Matrix: SOIL
Lab ID: 119538-006A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	LUFT			EPA 8015B(M)		
RunID: GC16_110825D	QC Batch: 75145			PrepDate: 8/25/2011		Analyst: CBR
DRO	ND	10		mg/Kg	1	8/25/2011 06:13 PM
ORO	ND	10		mg/Kg	1	8/25/2011 06:13 PM
Surr: p-Terphenyl	66.4	63-152		%REC	1	8/25/2011 06:13 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: 31-Aug-11

CLIENT: AMEC	Client Sample ID: E-109-45'
Lab Order: 119538	Collection Date: 8/24/2011 3:35:00 PM
Project: MTA Westside, 4953-10-1561	Matrix: SOIL
Lab ID: 119538-006B	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110825A	QC Batch: T11VS157	PrepDate: 8/24/2011	Analyst: DDL		
1,1,1,2-Tetrachloroethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,1,1-Trichloroethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,1,2,2-Tetrachloroethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,1,2-Trichloroethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,1-Dichloroethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,1-Dichloroethene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,1-Dichloropropene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,2,3-Trichlorobenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,2,3-Trichloropropane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,2,4-Trichlorobenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,2,4-Trimethylbenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,2-Dibromo-3-chloropropane	ND	8.4	µg/Kg	1	8/25/2011 02:05 PM
1,2-Dibromoethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,2-Dichlorobenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,2-Dichloroethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,2-Dichloropropane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,3,5-Trimethylbenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,3-Dichlorobenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,3-Dichloropropane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
1,4-Dichlorobenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
2,2-Dichloropropane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
2-Chlorotoluene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
4-Chlorotoluene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
4-Isopropyltoluene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Benzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Bromobenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Bromodichloromethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Bromoform	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Bromomethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Carbon tetrachloride	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Chlorobenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Chloroethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Chloroform	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Chloromethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
cis-1,2-Dichloroethene	ND	4.2	µg/Kg	1	8/25/2011 02:05 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	



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ANALYTICAL RESULTS

Print Date: 31-Aug-11

CLIENT:	AMEC	Client Sample ID:	E-109-45'
Lab Order:	119538	Collection Date:	8/24/2011 3:35:00 PM
Project:	MTA Westside, 4953-10-1561	Matrix:	SOIL
Lab ID:	119538-006B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110825A	QC Batch: T11VS157	PrepDate: 8/24/2011	Analyst: DDL		
cis-1,3-Dichloropropene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Di-isopropyl ether	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Dibromochloromethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Dibromomethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Dichlorodifluoromethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Ethyl Tert-butyl ether	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Ethylbenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Hexachlorobutadiene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Isopropylbenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
m,p-Xylene	ND	8.4	µg/Kg	1	8/25/2011 02:05 PM
Methylene chloride	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
MTBE	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
n-Butylbenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
n-Propylbenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Naphthalene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
o-Xylene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
sec-Butylbenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Styrene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Tert-amyl methyl ether	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Tert-Butanol	ND	84	µg/Kg	1	8/25/2011 02:05 PM
tert-Butylbenzene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Tetrachloroethene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Toluene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
trans-1,2-Dichloroethene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Trichloroethene	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Trichlorofluoromethane	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Vinyl chloride	ND	4.2	µg/Kg	1	8/25/2011 02:05 PM
Surr: 1,2-Dichloroethane-d4	107	65-141	%REC	1	8/25/2011 02:05 PM
Surr: 4-Bromofluorobenzene	84.9	57-134	%REC	1	8/25/2011 02:05 PM
Surr: Dibromofluoromethane	98.5	70-128	%REC	1	8/25/2011 02:05 PM
Surr: Toluene-d8	94.4	72-123	%REC	1	8/25/2011 02:05 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	



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ANALYTICAL RESULTS
 Print Date: 31-Aug-11

CLIENT: AMEC	Client Sample ID: E-109-45'
Lab Order: 119538	Collection Date: 8/24/2011 3:35:00 PM
Project: MTA Westside, 4953-10-1561	Matrix: SOIL
Lab ID: 119538-006E	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_110825A	QC Batch: E11VS308	PrepDate: 8/24/2011	Analyst: TP		
GRO	ND	0.81	mg/Kg	1	8/25/2011 03:07 PM
Surr: Bromofluorobenzene (FID)	122	51-161	%REC	1	8/25/2011 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	



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ANALYTICAL RESULTS
 Print Date: 31-Aug-11

CLIENT: AMEC	Client Sample ID: E-109-55'
Lab Order: 119538	Collection Date: 8/24/2011 1:25:00 PM
Project: MTA Westside, 4953-10-1561	Matrix: SOIL
Lab ID: 119538-007A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_110830A	QC Batch: 75185				PrepDate: 8/29/2011	Analyst: IL
Antimony	ND	2.0		mg/Kg	1	8/30/2011 12:43 PM
Arsenic	ND	1.0		mg/Kg	1	8/30/2011 12:43 PM
Barium	110	1.0		mg/Kg	1	8/30/2011 12:43 PM
Beryllium	ND	1.0		mg/Kg	1	8/30/2011 12:43 PM
Cadmium	1.1	1.0		mg/Kg	1	8/30/2011 12:43 PM
Chromium	19	1.0		mg/Kg	1	8/30/2011 12:43 PM
Cobalt	13	1.0		mg/Kg	1	8/30/2011 12:43 PM
Copper	24	2.0		mg/Kg	1	8/30/2011 12:43 PM
Lead	6.8	1.0		mg/Kg	1	8/30/2011 12:43 PM
Molybdenum	ND	1.0		mg/Kg	1	8/30/2011 12:43 PM
Nickel	21	1.0		mg/Kg	1	8/30/2011 12:43 PM
Selenium	ND	1.0		mg/Kg	1	8/30/2011 12:43 PM
Silver	ND	1.0		mg/Kg	1	8/30/2011 12:43 PM
Thallium	ND	1.0		mg/Kg	1	8/30/2011 12:43 PM
Vanadium	28	1.0		mg/Kg	1	8/30/2011 12:43 PM
Zinc	62	1.0		mg/Kg	1	8/30/2011 12:43 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID: AA1_110830A	QC Batch: 75184				PrepDate: 8/29/2011	Analyst: VV
Mercury	ND	0.10		mg/Kg	1	8/30/2011 11:23 AM

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



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ANALYTICAL RESULTS
 Print Date: 31-Aug-11

CLIENT: AMEC	Client Sample ID: E-109-75'
Lab Order: 119538	Collection Date: 8/24/2011 2:30:00 PM
Project: MTA Westside, 4953-10-1561	Matrix: SOIL
Lab ID: 119538-009A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	LUFT			EPA 8015B(M)		
RunID: GC16_110825D	QC Batch: 75145			PrepDate: 8/25/2011		Analyst: CBR
DRO	ND	10		mg/Kg	1	8/25/2011 06:23 PM
ORO	ND	10		mg/Kg	1	8/25/2011 06:23 PM
Surr: p-Terphenyl	69.4	63-152		%REC	1	8/25/2011 06:23 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	



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ANALYTICAL RESULTS

Print Date: 31-Aug-11

CLIENT: AMEC	Client Sample ID: E-109-75'
Lab Order: 119538	Collection Date: 8/24/2011 3:40:00 PM
Project: MTA Westside, 4953-10-1561	Matrix: SOIL
Lab ID: 119538-009B	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110825A	QC Batch: T11VS157	PrepDate: 8/24/2011	Analyst: DDL		
1,1,1,2-Tetrachloroethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,1,1-Trichloroethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,1,2,2-Tetrachloroethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,1,2-Trichloroethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,1-Dichloroethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,1-Dichloroethene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,1-Dichloropropene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,2,3-Trichlorobenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,2,3-Trichloropropane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,2,4-Trichlorobenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,2,4-Trimethylbenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,2-Dibromo-3-chloropropane	ND	7.9	µg/Kg	1	8/25/2011 02:24 PM
1,2-Dibromoethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,2-Dichlorobenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,2-Dichloroethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,2-Dichloropropane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,3,5-Trimethylbenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,3-Dichlorobenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,3-Dichloropropane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
1,4-Dichlorobenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
2,2-Dichloropropane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
2-Chlorotoluene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
4-Chlorotoluene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
4-Isopropyltoluene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
Benzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
Bromobenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
Bromodichloromethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
Bromoform	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
Bromomethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
Carbon tetrachloride	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
Chlorobenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
Chloroethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
Chloroform	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
Chloromethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM
cis-1,2-Dichloroethene	ND	4.0	µg/Kg	1	8/25/2011 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	



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ANALYTICAL RESULTS

Print Date: 31-Aug-11

CLIENT:	AMEC	Client Sample ID:	E-109-75'
Lab Order:	119538	Collection Date:	8/24/2011 3:40:00 PM
Project:	MTA Westside, 4953-10-1561	Matrix:	SOIL
Lab ID:	119538-009B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS5_110825A	QC Batch:	T11VS157	PrepDate:	8/24/2011	Analyst:	DDL
cis-1,3-Dichloropropene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Di-isopropyl ether	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Dibromochloromethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Dibromomethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Dichlorodifluoromethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Ethyl Tert-butyl ether	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Ethylbenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Hexachlorobutadiene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Isopropylbenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
m,p-Xylene	ND	7.9	µg/Kg	1	8/25/2011 02:24 PM		
Methylene chloride	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
MTBE	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
n-Butylbenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
n-Propylbenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Naphthalene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
o-Xylene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
sec-Butylbenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Styrene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Tert-amyl methyl ether	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Tert-Butanol	ND	79	µg/Kg	1	8/25/2011 02:24 PM		
tert-Butylbenzene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Tetrachloroethene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Toluene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
trans-1,2-Dichloroethene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Trichloroethene	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Trichlorofluoromethane	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Vinyl chloride	ND	4.0	µg/Kg	1	8/25/2011 02:24 PM		
Surr: 1,2-Dichloroethane-d4	102	65-141	%REC	1	8/25/2011 02:24 PM		
Surr: 4-Bromofluorobenzene	90.3	57-134	%REC	1	8/25/2011 02:24 PM		
Surr: Dibromofluoromethane	103	70-128	%REC	1	8/25/2011 02:24 PM		
Surr: Toluene-d8	96.5	72-123	%REC	1	8/25/2011 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	



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ANALYTICAL RESULTS
 Print Date: 31-Aug-11

CLIENT: AMEC	Client Sample ID: E-109-75'
Lab Order: 119538	Collection Date: 8/24/2011 3:40:00 PM
Project: MTA Westside, 4953-10-1561	Matrix: SOIL
Lab ID: 119538-009E	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_110825A	QC Batch: E11VS308	PrepDate: 8/24/2011	Analyst: TP		
GRO	ND	0.71	mg/Kg	1	8/25/2011 03:22 PM
Surr: Bromofluorobenzene (FID)	126	51-161	%REC	1	8/25/2011 03:22 PM

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



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ANALYTICAL RESULTS

Print Date: 31-Aug-11

CLIENT: AMEC
Lab Order: 119538
Project: MTA Westside, 4953-10-1561
Lab ID: 119538-010A

Client Sample ID: E-109-GW-30'
Collection Date: 8/24/2011 11:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS11_110826A	QC Batch:	A11VW146	PrepDate:	Analyst:	BD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,1,1-Trichloroethane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,1,2-Trichloroethane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,1-Dichloroethane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,1-Dichloroethene	0.87	0.50	µg/L	1	8/26/2011 06:01 PM	
1,1-Dichloropropene	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,2,3-Trichloropropane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,2-Dibromo-3-chloropropane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,2-Dibromoethane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,2-Dichlorobenzene	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,2-Dichloroethane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,2-Dichloropropane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,3-Dichlorobenzene	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,3-Dichloropropane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
1,4-Dichlorobenzene	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
2,2-Dichloropropane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
2-Chlorotoluene	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
4-Chlorotoluene	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
4-Isopropyltoluene	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
Benzene	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
Bromobenzene	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
Bromodichloromethane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
Bromoform	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
Bromomethane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
Carbon tetrachloride	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
Chlorobenzene	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
Chloroethane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
Chloroform	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
Chloromethane	ND	0.50	µg/L	1	8/26/2011 06:01 PM	
cis-1,2-Dichloroethene	0.60	0.50	µg/L	1	8/26/2011 06:01 PM	

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



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ANALYTICAL RESULTS

Print Date: 31-Aug-11

CLIENT: AMEC	Client Sample ID: E-109-GW-30'
Lab Order: 119538	Collection Date: 8/24/2011 11:35:00 AM
Project: MTA Westside, 4953-10-1561	Matrix: GROUNDWATER
Lab ID: 119538-010A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110826A	QC Batch: A11VW146	PrepDate:	Analyst: BD
cis-1,3-Dichloropropene	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Di-isopropyl ether	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Dibromochloromethane	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Dibromomethane	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Dichlorodifluoromethane	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Ethyl tert-butyl ether	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Ethylbenzene	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Hexachlorobutadiene	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Isopropylbenzene	ND	0.50	µg/L 1 8/26/2011 06:01 PM
m,p-Xylene	ND	1.0	µg/L 1 8/26/2011 06:01 PM
Methylene chloride	ND	1.0	µg/L 1 8/26/2011 06:01 PM
MTBE	4.8	0.50	µg/L 1 8/26/2011 06:01 PM
n-Butylbenzene	ND	0.50	µg/L 1 8/26/2011 06:01 PM
n-Propylbenzene	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Naphthalene	ND	0.50	µg/L 1 8/26/2011 06:01 PM
o-Xylene	ND	0.50	µg/L 1 8/26/2011 06:01 PM
sec-Butylbenzene	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Styrene	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Tert-amyl methyl ether	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Tert-Butanol	ND	10	µg/L 1 8/26/2011 06:01 PM
tert-Butylbenzene	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Tetrachloroethene	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Toluene	ND	0.50	µg/L 1 8/26/2011 06:01 PM
trans-1,2-Dichloroethene	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Trichloroethene	6.3	0.50	µg/L 1 8/26/2011 06:01 PM
Trichlorofluoromethane	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Vinyl chloride	ND	0.50	µg/L 1 8/26/2011 06:01 PM
Surr: 1,2-Dichloroethane-d4	77.0	70-130	%REC 1 8/26/2011 06:01 PM
Surr: 4-Bromofluorobenzene	91.0	70-130	%REC 1 8/26/2011 06:01 PM
Surr: Dibromofluoromethane	84.3	70-130	%REC 1 8/26/2011 06:01 PM
Surr: Toluene-d8	85.1	70-130	%REC 1 8/26/2011 06:01 PM

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



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ANALYTICAL RESULTS
 Print Date: 31-Aug-11

CLIENT: AMEC	Client Sample ID: E-109-GW-30'
Lab Order: 119538	Collection Date: 8/24/2011 11:35:00 AM
Project: MTA Westside, 4953-10-1561	Matrix: GROUNDWATER
Lab ID: 119538-010B	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID				EPA 8015B(M)		
RunID: GC19_110826A	QC Batch: M11VW165			PrepDate:		Analyst: BB
GRO	ND	0.20		mg/L	1	8/26/2011 11:36 AM
Surr: Bromofluorobenzene (FID)	90.3	70-130		%REC	1	8/26/2011 11:36 AM

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



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ANALYTICAL RESULTS
 Print Date: 31-Aug-11

CLIENT: AMEC	Client Sample ID: E-109-GW-30'
Lab Order: 119538	Collection Date: 8/24/2011 11:35:00 AM
Project: MTA Westside, 4953-10-1561	Matrix: GROUNDWATER
Lab ID: 119538-010C	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3510C			EPA 8015B(M)			
RunID: GC16_110830C	QC Batch: 75218				PrepDate: 8/30/2011	Analyst: CBR
DRO	ND	0.20		mg/L	1	8/30/2011 03:18 PM
ORO	ND	0.20		mg/L	1	8/30/2011 03:18 PM
Surr: p-Terphenyl	44.0	36-126		%REC	1	8/30/2011 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	



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

CLIENT: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

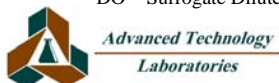
TestCode: 6010_S

Sample ID: MB-75185	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 8/29/2011	RunNo: 136198						
Client ID: PBS	Batch ID: 75185	TestNo: EPA 6010B EPA 3050B		Analysis Date: 8/30/2011	SeqNo: 2231487						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.438	1.0									

Sample ID: LCS-75185	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 8/29/2011	RunNo: 136198						
Client ID: LCSS	Batch ID: 75185	TestNo: EPA 6010B EPA 3050B		Analysis Date: 8/30/2011	SeqNo: 2231488						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	48.393	2.0	50.00	0	96.8	80	120				
Arsenic	47.567	1.0	50.00	0	95.1	80	120				
Barium	50.214	1.0	50.00	0	100	80	120				
Beryllium	49.028	1.0	50.00	0	98.1	80	120				
Cadmium	48.450	1.0	50.00	0	96.9	80	120				
Chromium	47.037	1.0	50.00	0	94.1	80	120				
Cobalt	50.446	1.0	50.00	0	101	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: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

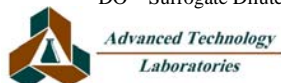
TestCode: 6010_S

Sample ID: LCS-75185	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 8/29/2011	RunNo: 136198						
Client ID: LCSS	Batch ID: 75185	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 8/30/2011	SeqNo: 2231488						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	49.659	2.0	50.00	0	99.3	80	120				
Lead	50.212	1.0	50.00	0	100	80	120				
Molybdenum	52.117	1.0	50.00	0	104	80	120				
Nickel	49.486	1.0	50.00	0	99.0	80	120				
Selenium	44.874	1.0	50.00	0	89.7	80	120				
Silver	48.682	1.0	50.00	0	97.4	80	120				
Thallium	47.959	1.0	50.00	0	95.9	80	120				
Vanadium	49.614	1.0	50.00	0	99.2	80	120				
Zinc	49.696	1.0	50.00	0.4382	98.5	80	120				

Sample ID: 119587-001G-MS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 8/29/2011	RunNo: 136198						
Client ID: ZZZZZZ	Batch ID: 75185	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 8/30/2011	SeqNo: 2231583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	80.638	2.0	125.0	0	64.5	32	105				
Arsenic	89.946	1.0	125.0	0	72.0	49	106				
Barium	223.991	1.0	125.0	124.9	79.3	31	133				
Beryllium	97.209	1.0	125.0	0	77.8	56	106				
Cadmium	91.268	1.0	125.0	0.6476	72.5	51	103				
Chromium	108.450	1.0	125.0	16.07	73.9	45	114				
Cobalt	108.451	1.0	125.0	11.08	77.9	52	106				
Copper	129.643	2.0	125.0	20.14	87.6	54	125				
Lead	97.340	1.0	125.0	6.756	72.5	34	126				
Molybdenum	98.449	1.0	125.0	0	78.8	54	106				
Nickel	105.418	1.0	125.0	12.28	74.5	45	111				
Selenium	90.131	1.0	125.0	0	72.1	47	104				
Silver	101.037	1.0	125.0	0	80.8	56	112				
Thallium	73.278	1.0	125.0	0	58.6	46	101				
Vanadium	142.800	1.0	125.0	39.97	82.3	54	114				
Zinc	159.302	1.0	125.0	61.37	78.3	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: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

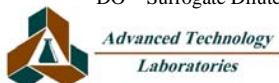
ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 119587-001G-MSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 8/29/2011	RunNo: 136198						
Client ID: ZZZZZZ	Batch ID: 75185	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 8/30/2011	SeqNo: 2231605						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	84.637	2.0	125.0	0	67.7	32	105	80.64	4.84	20	
Arsenic	93.293	1.0	125.0	0	74.6	49	106	89.95	3.65	20	
Barium	222.709	1.0	125.0	124.9	78.2	31	133	224.0	0.574	20	
Beryllium	100.494	1.0	125.0	0	80.4	56	106	97.21	3.32	20	
Cadmium	93.952	1.0	125.0	0.6476	74.6	51	103	91.27	2.90	20	
Chromium	111.996	1.0	125.0	16.07	76.7	45	114	108.5	3.22	20	
Cobalt	111.755	1.0	125.0	11.08	80.5	52	106	108.5	3.00	20	
Copper	136.727	2.0	125.0	20.14	93.3	54	125	129.6	5.32	20	
Lead	101.112	1.0	125.0	6.756	75.5	34	126	97.34	3.80	20	
Molybdenum	102.992	1.0	125.0	0	82.4	54	106	98.45	4.51	20	
Nickel	109.387	1.0	125.0	12.28	77.7	45	111	105.4	3.69	20	
Selenium	93.023	1.0	125.0	0	74.4	47	104	90.13	3.16	20	
Silver	103.816	1.0	125.0	0	83.1	56	112	101.0	2.71	20	
Thallium	75.960	1.0	125.0	0	60.8	46	101	73.28	3.59	20	
Vanadium	145.282	1.0	125.0	39.97	84.2	54	114	142.8	1.72	20	
Zinc	151.393	1.0	125.0	61.37	72.0	28	125	159.3	5.09	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: MB-75184	SampType: MBLK	TestCode: 7471_S	Units: mg/Kg	Prep Date: 8/29/2011	RunNo: 136191						
Client ID: PBS	Batch ID: 75184	TestNo: EPA 7471A		Analysis Date: 8/30/2011	SeqNo: 2231304						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	ND	0.10									
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Sample ID: 119587-001G-MS	SampType: MS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 8/29/2011	RunNo: 136191						
Client ID: ZZZZZZ	Batch ID: 75184	TestNo: EPA 7471A		Analysis Date: 8/30/2011	SeqNo: 2231305						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.932	0.10	0.8300	0.08317	102	70	130				
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Sample ID: 119587-001G-MSD	SampType: MSD	TestCode: 7471_S	Units: mg/Kg	Prep Date: 8/29/2011	RunNo: 136191						
Client ID: ZZZZZZ	Batch ID: 75184	TestNo: EPA 7471A		Analysis Date: 8/30/2011	SeqNo: 2231306						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

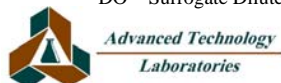
Mercury	0.908	0.10	0.8300	0.08317	99.4	70	130	0.9320	2.63	20	
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Sample ID: LCS-75184	SampType: LCS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 8/29/2011	RunNo: 136191						
Client ID: LCSS	Batch ID: 75184	TestNo: EPA 7471A		Analysis Date: 8/30/2011	SeqNo: 2231309						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.908	0.10	0.8300	0	109	80	120				
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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: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM H

Sample ID: LCS-75145	SampType: LCS	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 8/25/2011	RunNo: 136099						
Client ID: LCSS	Batch ID: 75145	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/25/2011	SeqNo: 2229942						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	792.520	10	1000	0	79.3	76	139				
Surr: p-Terphenyl	70.040		80.00		87.6	63	152				

Sample ID: MB-75145	SampType: MBLK	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 8/25/2011	RunNo: 136099						
Client ID: PBS	Batch ID: 75145	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/25/2011	SeqNo: 2229943						
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	54.460		80.00		68.1	63	152				

Sample ID: 119538-002AMS	SampType: MS	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 8/25/2011	RunNo: 136099						
Client ID: E-109-20'	Batch ID: 75145	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/25/2011	SeqNo: 2229944						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

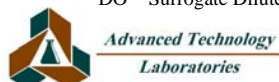
DRO	771.450	10	1000	0	77.1	60	158				
Surr: p-Terphenyl	62.810		80.00		78.5	63	152				

Sample ID: 119538-002AMSD	SampType: MSD	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 8/25/2011	RunNo: 136099						
Client ID: E-109-20'	Batch ID: 75145	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/25/2011	SeqNo: 2229945						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	779.120	10	1000	0	77.9	60	158	771.4	0.989	20	
Surr: p-Terphenyl	63.910		80.00		79.9	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: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_G 5035P

Sample ID: E110825LC1	SampType: LCS	TestCode: 8015_S_G 50	Units: mg/Kg	Prep Date:	RunNo: 136106						
Client ID: LCSS	Batch ID: E11VS308	TestNo: EPA 8015B(M)		Analysis Date: 8/25/2011	SeqNo: 2230843						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

GRO	4.932	1.0	5.000	0	98.6	70	130				
Surr: Bromofluorobenzene (FID)	123.670		100.0		124	51	161				

Sample ID: E110825MB1MS	SampType: MS	TestCode: 8015_S_G 50	Units: mg/Kg	Prep Date:	RunNo: 136106						
Client ID: ZZZZZZ	Batch ID: E11VS308	TestNo: EPA 8015B(M)		Analysis Date: 8/25/2011	SeqNo: 2230844						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

GRO	5.080	1.0	5.000	0	102	41	146				
Surr: Bromofluorobenzene (FID)	113.309		100.0		113	51	161				

Sample ID: E110825MB1MSD	SampType: MSD	TestCode: 8015_S_G 50	Units: mg/Kg	Prep Date:	RunNo: 136106						
Client ID: ZZZZZZ	Batch ID: E11VS308	TestNo: EPA 8015B(M)		Analysis Date: 8/25/2011	SeqNo: 2230845						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

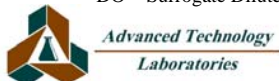
GRO	5.298	1.0	5.000	0	106	41	146	5.080	4.20	20	
Surr: Bromofluorobenzene (FID)	114.159		100.0		114	51	161		0	0	

Sample ID: E110825MB1	SampType: MBLK	TestCode: 8015_S_G 50	Units: mg/Kg	Prep Date:	RunNo: 136106						
Client ID: PBS	Batch ID: E11VS308	TestNo: EPA 8015B(M)		Analysis Date: 8/25/2011	SeqNo: 2230846						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

GRO	ND	1.0									
Surr: Bromofluorobenzene (FID)	95.620		100.0		95.6	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: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DM

Sample ID: MB-75218	SampType: MBLK	TestCode: 8015_W_DM	Units: mg/L	Prep Date: 8/30/2011	RunNo: 136210						
Client ID: PBW	Batch ID: 75218	TestNo: EPA 8015B(M EPA 3510C		Analysis Date: 8/30/2011	SeqNo: 2231735						
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	0.031		0.08000		39.2	36	126				

Sample ID: LCS-75218	SampType: LCS	TestCode: 8015_W_DM	Units: mg/L	Prep Date: 8/30/2011	RunNo: 136210						
Client ID: LCSW	Batch ID: 75218	TestNo: EPA 8015B(M EPA 3510C		Analysis Date: 8/30/2011	SeqNo: 2231736						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	0.558	0.20	1.000	0	55.8	52	128				
Surr: p-Terphenyl	0.047		0.08000		58.8	36	126				

Sample ID: MB-75218MS	SampType: MS	TestCode: 8015_W_DM	Units: mg/L	Prep Date: 8/30/2011	RunNo: 136210						
Client ID: ZZZZZ	Batch ID: 75218	TestNo: EPA 8015B(M EPA 3510C		Analysis Date: 8/30/2011	SeqNo: 2231781						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

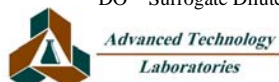
DRO	0.579	0.20	1.000	0	57.9	52	128				
Surr: p-Terphenyl	0.048		0.08000		60.5	36	126				

Sample ID: MB-75218MSD	SampType: MSD	TestCode: 8015_W_DM	Units: mg/L	Prep Date: 8/30/2011	RunNo: 136210						
Client ID: ZZZZZ	Batch ID: 75218	TestNo: EPA 8015B(M EPA 3510C		Analysis Date: 8/30/2011	SeqNo: 2231782						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	0.545	0.20	1.000	0	54.5	52	128	0.5790	6.09	20	
Surr: p-Terphenyl	0.046		0.08000		57.0	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 | |



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CLIENT: AMEC
 Work Order: 119538
 Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_G PRES

Sample ID: M110826LCS2	SampType: LCS	TestCode: 8015_W_G P	Units: mg/L	Prep Date:	RunNo: 136145						
Client ID: LCSW	Batch ID: M11VW165	TestNo: EPA 8015B(M)		Analysis Date: 8/26/2011	SeqNo: 2230693						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

GRO	1.030	0.20	1.000	0	103	70	130				
Surr: Bromofluorobenzene (FID)	91.403		100.0		91.4	70	130				

Sample ID: M110826MB1MS	SampType: MS	TestCode: 8015_W_G P	Units: mg/L	Prep Date:	RunNo: 136145						
Client ID: ZZZZZ	Batch ID: M11VW165	TestNo: EPA 8015B(M)		Analysis Date: 8/26/2011	SeqNo: 2230695						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

GRO	1.053	0.20	1.000	0	105	70	130				
Surr: Bromofluorobenzene (FID)	90.804		100.0		90.8	70	130				

Sample ID: M110826MB1MSD	SampType: MSD	TestCode: 8015_W_G P	Units: mg/L	Prep Date:	RunNo: 136145						
Client ID: ZZZZZ	Batch ID: M11VW165	TestNo: EPA 8015B(M)		Analysis Date: 8/26/2011	SeqNo: 2230696						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

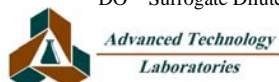
GRO	1.035	0.20	1.000	0	104	70	130	1.053	1.72	20	
Surr: Bromofluorobenzene (FID)	91.358		100.0		91.4	70	130		0	0	

Sample ID: M110826MB1	SampType: MBLK	TestCode: 8015_W_G P	Units: mg/L	Prep Date:	RunNo: 136145						
Client ID: PBW	Batch ID: M11VW165	TestNo: EPA 8015B(M)		Analysis Date: 8/26/2011	SeqNo: 2230697						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

GRO	ND	0.20									
Surr: Bromofluorobenzene (FID)	88.544		100.0		88.5	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: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

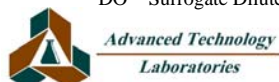
Sample ID: T110825LCS1		SampType: LCS		TestCode: 8260_S_5035		Units: µg/Kg		Prep Date:		RunNo: 136064	
Client ID: LCSS		Batch ID: T11VS157		TestNo: EPA 8260B		Analysis Date: 8/25/2011				SeqNo: 2230006	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	42.760	5.0	50.00	0	85.5	70	130				
Benzene	96.000	5.0	100.0	0	96.0	70	130				
Chlorobenzene	52.330	5.0	50.00	0	105	70	130				
MTBE	49.030	5.0	50.00	0	98.1	70	130				
Toluene	101.890	5.0	100.0	0	102	70	130				
Trichloroethene	50.880	5.0	50.00	0	102	70	130				
Surr: 1,2-Dichloroethane-d4	43.840		50.00		87.7	65	141				
Surr: 4-Bromofluorobenzene	40.820		50.00		81.6	57	134				
Surr: Dibromofluoromethane	50.690		50.00		101	70	128				
Surr: Toluene-d8	47.760		50.00		95.5	72	123				

Sample ID: T110825MB1MS		SampType: MS		TestCode: 8260_S_5035		Units: µg/Kg		Prep Date:		RunNo: 136064	
Client ID: ZZZZZ		Batch ID: T11VS157		TestNo: EPA 8260B		Analysis Date: 8/25/2011				SeqNo: 2230008	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	42.220	5.0	50.00	0	84.4	70	130				
Benzene	91.060	5.0	100.0	0	91.1	70	130				
Chlorobenzene	50.180	5.0	50.00	0	100	70	130				
MTBE	48.040	5.0	50.00	0	96.1	70	130				
Toluene	98.790	5.0	100.0	0	98.8	70	130				
Trichloroethene	47.470	5.0	50.00	0	94.9	70	130				
Surr: 1,2-Dichloroethane-d4	43.460		50.00		86.9	65	141				
Surr: 4-Bromofluorobenzene	42.640		50.00		85.3	57	134				
Surr: Dibromofluoromethane	47.690		50.00		95.4	70	128				
Surr: Toluene-d8	46.350		50.00		92.7	72	123				

Sample ID: T110825MB1MSD		SampType: MSD		TestCode: 8260_S_5035		Units: µg/Kg		Prep Date:		RunNo: 136064	
Client ID: ZZZZZ		Batch ID: T11VS157		TestNo: EPA 8260B		Analysis Date: 8/25/2011				SeqNo: 2230009	
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: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

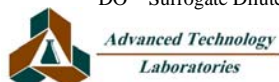
TestCode: 8260_S_5035

Sample ID: T110825MB1MSD		SampType: MSD		TestCode: 8260_S_5035		Units: µg/Kg		Prep Date:		RunNo: 136064	
Client ID: ZZZZZZ		Batch ID: T11VS157		TestNo: EPA 8260B		Analysis Date: 8/25/2011				SeqNo: 2230009	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	39.530	5.0	50.00	0	79.1	70	130	42.22	6.58	20	
Benzene	91.340	5.0	100.0	0	91.3	70	130	91.06	0.307	20	
Chlorobenzene	51.510	5.0	50.00	0	103	70	130	50.18	2.62	20	
MTBE	47.540	5.0	50.00	0	95.1	70	130	48.04	1.05	20	
Toluene	96.100	5.0	100.0	0	96.1	70	130	98.79	2.76	20	
Trichloroethene	46.850	5.0	50.00	0	93.7	70	130	47.47	1.31	20	
Surr: 1,2-Dichloroethane-d4	43.480		50.00		87.0	65	141		0	0	
Surr: 4-Bromofluorobenzene	43.520		50.00		87.0	57	134		0	0	
Surr: Dibromofluoromethane	47.640		50.00		95.3	70	128		0	0	
Surr: Toluene-d8	46.640		50.00		93.3	72	123		0	0	

Sample ID: T110825MB1		SampType: MBLK		TestCode: 8260_S_5035		Units: µg/Kg		Prep Date:		RunNo: 136064	
Client ID: PBS		Batch ID: T11VS157		TestNo: EPA 8260B		Analysis Date: 8/25/2011				SeqNo: 2230010	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									

Qualifiers:

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



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CLIENT: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID: T110825MB1	SampType: MBLK	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	RunNo: 136064
Client ID: PBS	Batch ID: T11VS157	TestNo: EPA 8260B		Analysis Date: 8/25/2011	SeqNo: 2230010

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 |
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CLIENT: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID: T110825MB1	SampType: MBLK	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	RunNo: 136064						
Client ID: PBS	Batch ID: T11VS157	TestNo: EPA 8260B		Analysis Date: 8/25/2011	SeqNo: 2230010						
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	46.490		50.00		93.0	65	141				
Surr: 4-Bromofluorobenzene	42.780		50.00		85.6	57	134				
Surr: Dibromofluoromethane	49.280		50.00		98.6	70	128				
Surr: Toluene-d8	47.090		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 |
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| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

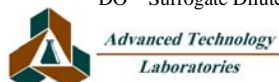
Sample ID: A110826LCS1		SampType: LCS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 136156	
Client ID: LCSW		Batch ID: A11VW146		TestNo: EPA 8260B		Analysis Date: 8/26/2011				SeqNo: 2230899	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.690	0.50	20.00	0	78.4	70	130				
Benzene	37.170	0.50	40.00	0	92.9	70	130				
Chlorobenzene	19.860	0.50	20.00	0	99.3	70	130				
MTBE	19.290	0.50	20.00	0	96.5	70	130				
Toluene	38.350	0.50	40.00	0	95.9	70	130				
Trichloroethene	19.330	0.50	20.00	0	96.7	70	130				
Surr: 1,2-Dichloroethane-d4	20.040		25.00		80.2	70	130				
Surr: 4-Bromofluorobenzene	23.130		25.00		92.5	70	130				
Surr: Dibromofluoromethane	20.840		25.00		83.4	70	130				
Surr: Toluene-d8	21.500		25.00		86.0	70	130				

Sample ID: A110826MB2MS		SampType: MS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 136156	
Client ID: ZZZZZ		Batch ID: A11VW146		TestNo: EPA 8260B		Analysis Date: 8/26/2011				SeqNo: 2230900	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.630	0.50	20.00	0	78.2	70	130				
Benzene	37.360	0.50	40.00	0	93.4	70	130				
Chlorobenzene	20.180	0.50	20.00	0	101	70	130				
MTBE	20.070	0.50	20.00	0	100	70	130				
Toluene	38.510	0.50	40.00	0	96.3	70	130				
Trichloroethene	19.120	0.50	20.00	0	95.6	70	130				
Surr: 1,2-Dichloroethane-d4	20.320		25.00		81.3	70	130				
Surr: 4-Bromofluorobenzene	23.300		25.00		93.2	70	130				
Surr: Dibromofluoromethane	21.250		25.00		85.0	70	130				
Surr: Toluene-d8	21.480		25.00		85.9	70	130				

Sample ID: A110826MB2MSD		SampType: MSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 136156	
Client ID: ZZZZZ		Batch ID: A11VW146		TestNo: EPA 8260B		Analysis Date: 8/26/2011				SeqNo: 2230901	
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: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

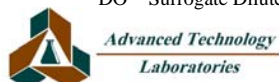
TestCode: 8260_WP_LL

Sample ID: A110826MB2MSD	SampType: MSD	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 136156						
Client ID: ZZZZZZ	Batch ID: A11VW146	TestNo: EPA 8260B		Analysis Date: 8/26/2011	SeqNo: 2230901						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.910	0.50	20.00	0	79.6	70	130	15.63	1.78	20	
Benzene	37.610	0.50	40.00	0	94.0	70	130	37.36	0.667	20	
Chlorobenzene	20.290	0.50	20.00	0	101	70	130	20.18	0.544	20	
MTBE	20.810	0.50	20.00	0	104	70	130	20.07	3.62	20	
Toluene	38.580	0.50	40.00	0	96.5	70	130	38.51	0.182	20	
Trichloroethene	19.330	0.50	20.00	0	96.7	70	130	19.12	1.09	20	
Surr: 1,2-Dichloroethane-d4	20.350		25.00		81.4	70	130		0	0	
Surr: 4-Bromofluorobenzene	23.220		25.00		92.9	70	130		0	0	
Surr: Dibromofluoromethane	21.230		25.00		84.9	70	130		0	0	
Surr: Toluene-d8	21.380		25.00		85.5	70	130		0	0	

Sample ID: A110826MB2	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 136156						
Client ID: PBW	Batch ID: A11VW146	TestNo: EPA 8260B		Analysis Date: 8/26/2011	SeqNo: 2230902						
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 | |



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

CLIENT: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: A110826MB2	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 136156						
Client ID: PBW	Batch ID: A11VW146	TestNo: EPA 8260B		Analysis Date: 8/26/2011	SeqNo: 2230902						
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	



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Laboratories*

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

CLIENT: AMEC
Work Order: 119538
Project: MTA Westside, 4953-10-1561

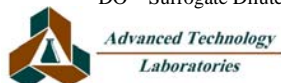
ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: A110826MB2	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 136156						
Client ID: PBW	Batch ID: A11VW146	TestNo: EPA 8260B		Analysis Date: 8/26/2011	SeqNo: 2230902						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	1.0									
MTBE	ND	0.50									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
Tert-amyl methyl ether	ND	0.50									
Tert-Butanol	ND	10									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	19.130		25.00		76.5	70	130				
Surr: 4-Bromofluorobenzene	22.710		25.00		90.8	70	130				
Surr: Dibromofluoromethane	21.020		25.00		84.1	70	130				
Surr: Toluene-d8	21.160		25.00		84.6	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 | |



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CHAIN OF CUSTODY RECORD

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

P.O.#: 2011 06 374
 Logged By: [Signature] Date: 8/24/11
 NOTE: Please include your Quote No. to ensure proper pricing of your project.

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

Client: Amec
 Attn: Matt Frayhineaud
 Project Name: MTA Westside
 Relinquished by: Rachel Mills
 Relinquished by: Rachel Mills
 Relinquished by: Rachel Mills

Address: 5628 E. Slawson Ave
 City: LA State: CA Zip Code: [blank]
 Project #: 4953-10-156
 Date: 8/24/11
 Time: 5:21
 Received by: Rachel Mills
 Date: 8/24/11
 Time: 7:21

TEL: (323) 889-5300
 FAX: [blank]
 Date: [blank] Time: [blank]
 Date: [blank] Time: [blank]
 Date: [blank] Time: [blank]

Special Instructions/Comments:
 Bill To: [blank]
 Attn: Matt Frayhineaud
 Co: Amec
 Address: 5628 E. Slawson Ave
 City: LA State: CA Zip: [blank]
 (same as above)

Circle or Add Analysis(es) Requested:
 8081A (Pesticides) X
 8250B (PCB) X
 8270C (BNA) X
 8010B (Total Metal) X
 8015B (GRO) X
 8015B (PRO) X
 TITLE 22 / CAM 17 (6010 / 700)

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 Description	Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX										Q A / Q C							
						8081A (Pesticides)	8250B (PCB)	8270C (BNA)	8010B (Total Metal)	8015B (GRO)	8015B (PRO)	TITLE 22 / CAM 17 (6010 / 700)	SEDIMENT	SOIL	DRINKING WATER		WASTEWATER	STORMWATER	AQUEOUS	RTNE	CT	Legal	SWRCB
119538	- 1	E-109-15'	E-109-15'	8/24/11	10:15	X																	HOLD
	- 2	E-109-20'	E-109-20'	8/24/11	10:30	X																	HOLD
	- 3	E-109-25'	E-109-25'	8/24/11	10:45	X																	HOLD
	- 4	E-109-30'	E-109-30'	8/24/11	11:15	X																	HOLD
	- 5	E-109-35'	E-109-35'	8/24/11	12:10	X																	HOLD
	- 6	E-109-45'	E-109-45'	8/24/11	13:00	X																	HOLD
	- 7	E-109-55'	E-109-55'	8/24/11	13:25	X																	HOLD
	- 8	E-109-65'	E-109-65'	8/24/11	13:55	X																	HOLD
	- 9	E-109-75'	E-109-75'	8/24/11	14:30	X																	HOLD
	- 10	E-109-GW-30'	E-109-GW-30'	8/24/11	15:40	X																	HOLD
				8/24/11	11:35	X																	HOLD

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Bedlar G=Glass P=Plastic M=Metal
 TAT: A= Overnight ≤ 24 hrs B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

Figure I-1.332

August 11, 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.: 119194

RE: METRO WESTSIDE EXTENSION, 4953-10-1

Attention: Matt Fraychineaud

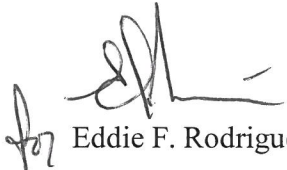
Enclosed are the results for sample(s) received on July 29, 2011 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

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 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: 11-Aug-11

CLIENT: Mactec	Client Sample ID: E-110-40
Lab Order: 119194	Collection Date: 7/27/2011 10:20:00 AM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: SOIL
Lab ID: 119194-009A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

LUFT

EPA 8015B(M)

RunID: GC16_110810A	QC Batch: 74806	PrepDate: 8/9/2011	Analyst: CBR		
DRO	ND	10	mg/Kg	1	8/10/2011 11:44 AM
ORO	ND	10	mg/Kg	1	8/10/2011 11:44 AM
Surr: p-Terphenyl	81.7	63-152	%REC	1	8/10/2011 11:44 AM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110809A	QC Batch: T11VS141	PrepDate:	Analyst: DDL		
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,1,1-Trichloroethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,1,2-Trichloroethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,1-Dichloroethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,1-Dichloroethene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,1-Dichloropropene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,2,3-Trichloropropane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg	1	8/9/2011 03:12 PM
1,2-Dibromoethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,2-Dichlorobenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,2-Dichloroethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,2-Dichloropropane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,3-Dichlorobenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,3-Dichloropropane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
1,4-Dichlorobenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
2,2-Dichloropropane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
2-Chlorotoluene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
4-Chlorotoluene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
4-Isopropyltoluene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Benzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Bromobenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Bromodichloromethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Bromoform	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Bromomethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 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
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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 11-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-40
Lab Order:	119194	Collection Date:	7/27/2011 10:20:00 AM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-009A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110809A	QC Batch: T11VS141	PrepDate:	Analyst: DDL		
Carbon tetrachloride	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Chlorobenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Chloroethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Chloroform	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Chloromethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Di-isopropyl ether	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Dibromochloromethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Dibromomethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Ethylbenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Hexachlorobutadiene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Isopropylbenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
m,p-Xylene	ND	10	µg/Kg	1	8/9/2011 03:12 PM
Methylene chloride	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
MTBE	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
n-Butylbenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
n-Propylbenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Naphthalene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
o-Xylene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
sec-Butylbenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Styrene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Tert-amyl methyl ether	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Tert-Butanol	ND	100	µg/Kg	1	8/9/2011 03:12 PM
tert-Butylbenzene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Tetrachloroethene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Toluene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Trichloroethene	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Trichlorofluoromethane	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Vinyl chloride	ND	5.0	µg/Kg	1	8/9/2011 03:12 PM
Surr: 1,2-Dichloroethane-d4	109	70-130	%REC	1	8/9/2011 03:12 PM
Surr: 4-Bromofluorobenzene	89.0	70-130	%REC	1	8/9/2011 03:12 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
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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: 11-Aug-11

CLIENT: Mactec	Client Sample ID: E-110-40
Lab Order: 119194	Collection Date: 7/27/2011 10:20:00 AM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: SOIL
Lab ID: 119194-009A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110809A	QC Batch: T11VS141	PrepDate:	Analyst: DDL
Surr: Dibromofluoromethane	110	70-130	%REC 1 8/9/2011 03:12 PM
Surr: Toluene-d8	101	70-130	%REC 1 8/9/2011 03:12 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	



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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 11-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-50
Lab Order:	119194	Collection Date:	7/27/2011 12:20:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-010A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

LUFT

EPA 8015B(M)

RunID: GC16_110810A	QC Batch: 74806			PrepDate: 8/9/2011	Analyst: CBR	
DRO	ND	10		mg/Kg	1	8/10/2011 11:32 AM
ORO	ND	10		mg/Kg	1	8/10/2011 11:32 AM
Surr: p-Terphenyl	92.6	63-152		%REC	1	8/10/2011 11:32 AM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110809A	QC Batch: T11VS141			PrepDate:	Analyst: DDL	
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	8/9/2011 03:30 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
Benzene	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
Bromobenzene	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
Bromodichloromethane	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
Bromoform	ND	5.0		µg/Kg	1	8/9/2011 03:30 PM
Bromomethane	ND	5.0		µg/Kg	1	8/9/2011 03:30 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
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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

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ANALYTICAL RESULTS

Print Date: 11-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-50
Lab Order:	119194	Collection Date:	7/27/2011 12:20:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-010A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110809A	QC Batch: T11VS141	PrepDate:	Analyst: DDL
Carbon tetrachloride	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Chlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Chloroethane	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Chloroform	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Chloromethane	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
cis-1,3-Dichloropropene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Di-isopropyl ether	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Dibromochloromethane	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Dibromomethane	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Ethyl Tert-butyl ether	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Ethylbenzene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Hexachlorobutadiene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Isopropylbenzene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
m,p-Xylene	ND	10	µg/Kg 1 8/9/2011 03:30 PM
Methylene chloride	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
MTBE	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
n-Butylbenzene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
n-Propylbenzene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Naphthalene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
o-Xylene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
sec-Butylbenzene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Styrene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Tert-amyl methyl ether	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Tert-Butanol	ND	100	µg/Kg 1 8/9/2011 03:30 PM
tert-Butylbenzene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Tetrachloroethene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Toluene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Trichloroethene	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Trichlorofluoromethane	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Vinyl chloride	ND	5.0	µg/Kg 1 8/9/2011 03:30 PM
Surr: 1,2-Dichloroethane-d4	101	70-130	%REC 1 8/9/2011 03:30 PM
Surr: 4-Bromofluorobenzene	86.7	70-130	%REC 1 8/9/2011 03:30 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	



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ANALYTICAL RESULTS
Print Date: 11-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-50
Lab Order:	119194	Collection Date:	7/27/2011 12:20:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-010A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110809A	QC Batch: T11VS141	PrepDate:	Analyst: DDL	
Surr: Dibromofluoromethane	101	70-130	%REC 1	8/9/2011 03:30 PM
Surr: Toluene-d8	96.2	70-130	%REC 1	8/9/2011 03:30 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		



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

CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM H

Sample ID: MB-74806	SampType: MBLK	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 8/9/2011	RunNo: 135722						
Client ID: PBS	Batch ID: 74806	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/10/2011	SeqNo: 2222779						
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	77.440		80.00		96.8	63	152				

Sample ID: LCS-74806	SampType: LCS	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 8/9/2011	RunNo: 135722						
Client ID: LCSS	Batch ID: 74806	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/10/2011	SeqNo: 2222780						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	959.480	10	1000	0	95.9	76	139				
Surr: p-Terphenyl	99.220		80.00		124	63	152				

Sample ID: 119284-001GMS	SampType: MS	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 8/9/2011	RunNo: 135722						
Client ID: ZZZZZ	Batch ID: 74806	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/10/2011	SeqNo: 2222784						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

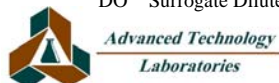
DRO	896.780	10	1000	0	89.7	60	158				
Surr: p-Terphenyl	71.030		80.00		88.8	63	152				

Sample ID: 119284-001GMSD	SampType: MSD	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 8/9/2011	RunNo: 135722						
Client ID: ZZZZZ	Batch ID: 74806	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/10/2011	SeqNo: 2222785						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	962.190	10	1000	0	96.2	60	158	896.8	7.04	20	
Surr: p-Terphenyl	79.480		80.00		99.4	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: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

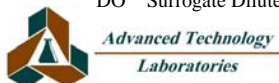
Sample ID: T110809LCS1	SampType: LCS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: LCSS	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222703						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	54.850	5.0	50.00	0	110	70	130				
Benzene	104.320	5.0	100.0	0	104	70	130				
Chlorobenzene	55.290	5.0	50.00	0	111	82	130				
MTBE	59.830	5.0	50.00	0	120	70	130				
Toluene	107.450	5.0	100.0	0	107	70	130				
Trichloroethene	54.850	5.0	50.00	0	110	77	130				
Surr: 1,2-Dichloroethane-d4	52.650		50.00		105	70	130				
Surr: 4-Bromofluorobenzene	42.710		50.00		85.4	70	130				
Surr: Dibromofluoromethane	56.840		50.00		114	70	130				
Surr: Toluene-d8	49.440		50.00		98.9	70	130				

Sample ID: T110809MB1MS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: ZZZZZ	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222704						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	52.770	5.0	50.00	0	106	70	130				
Benzene	103.860	5.0	100.0	0	104	70	130				
Chlorobenzene	54.000	5.0	50.00	0	108	70	130				
MTBE	57.080	5.0	50.00	0	114	70	130				
Toluene	107.840	5.0	100.0	0	108	70	130				
Trichloroethene	54.200	5.0	50.00	0	108	70	130				
Surr: 1,2-Dichloroethane-d4	49.220		50.00		98.4	70	130				
Surr: 4-Bromofluorobenzene	44.340		50.00		88.7	70	130				
Surr: Dibromofluoromethane	53.530		50.00		107	70	130				
Surr: Toluene-d8	49.490		50.00		99.0	70	130				

Sample ID: T110809MB1MSD	SampType: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: ZZZZZ	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222705						
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: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

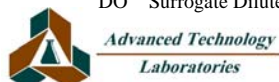
TestCode: 8260_S

Sample ID: T110809MB1MSD	SampType: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: ZZZZZZ	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222705						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	53.470	5.0	50.00	0	107	70	130	52.77	1.32	20	
Benzene	101.880	5.0	100.0	0	102	70	130	103.9	1.92	20	
Chlorobenzene	54.910	5.0	50.00	0	110	70	130	54.00	1.67	20	
MTBE	57.330	5.0	50.00	0	115	70	130	57.08	0.437	20	
Toluene	108.000	5.0	100.0	0	108	70	130	107.8	0.148	20	
Trichloroethene	54.360	5.0	50.00	0	109	70	130	54.20	0.295	20	
Surr: 1,2-Dichloroethane-d4	48.270		50.00		96.5	70	130		0	0	
Surr: 4-Bromofluorobenzene	43.260		50.00		86.5	70	130		0	0	
Surr: Dibromofluoromethane	55.470		50.00		111	70	130		0	0	
Surr: Toluene-d8	49.950		50.00		99.9	70	130		0	0	

Sample ID: T110809MB1	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: PBS	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222706						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									

Qualifiers:

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



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CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: T110809MB1	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: PBS	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222706						
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 |
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| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

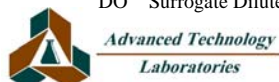
TestCode: 8260_S

Sample ID: T110809MB1	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: PBS	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222706						
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	52.090		50.00		104	70	130				
Surr: 4-Bromofluorobenzene	44.270		50.00		88.5	70	130				
Surr: Dibromofluoromethane	54.170		50.00		108	70	130				
Surr: Toluene-d8	49.310		50.00		98.6	70	130				

Sample ID: 119294-001AMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: ZZZZZZ	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	47.240	5.0	50.00	0	94.5	70	130				
Benzene	89.930	5.0	100.0	0	89.9	70	130				
Chlorobenzene	47.710	5.0	50.00	0	95.4	70	130				
MTBE	49.950	5.0	50.00	0	99.9	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 | |



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CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

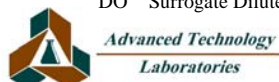
TestCode: 8260_S

Sample ID: 119294-001AMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: ZZZZZZ	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	93.310	5.0	100.0	0	93.3	70	130				
Trichloroethene	45.710	5.0	50.00	0	91.4	70	130				
Surr: 1,2-Dichloroethane-d4	52.940		50.00		106	70	130				
Surr: 4-Bromofluorobenzene	44.410		50.00		88.8	70	130				
Surr: Dibromofluoromethane	57.250		50.00		114	70	130				
Surr: Toluene-d8	48.490		50.00		97.0	70	130				

Sample ID: 119294-001AMSD	SampType: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: ZZZZZZ	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222709						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	40.830	5.0	50.00	0	81.7	70	130	47.24	14.6	20	
Benzene	78.930	5.0	100.0	0	78.9	70	130	89.93	13.0	20	
Chlorobenzene	41.160	5.0	50.00	0	82.3	70	130	47.71	14.7	20	
MTBE	44.230	5.0	50.00	0	88.5	70	130	49.95	12.1	20	
Toluene	82.810	5.0	100.0	0	82.8	70	130	93.31	11.9	20	
Trichloroethene	41.710	5.0	50.00	0	83.4	70	130	45.71	9.15	20	
Surr: 1,2-Dichloroethane-d4	49.650		50.00		99.3	70	130		0	0	
Surr: 4-Bromofluorobenzene	43.190		50.00		86.4	70	130		0	0	
Surr: Dibromofluoromethane	55.180		50.00		110	70	130		0	0	
Surr: Toluene-d8	46.830		50.00		93.7	70	130		0	0	

Qualifiers:

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



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

Rachelle Arada

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

Hi Rachelle:

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

Please let me know if you have any questions.

Thanks.

Matt

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

CHAIN OF CUSTODY RECORD

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

Client: **MARTER**
 Attn: **MATT FRAYCHINEAUD**
 City: **LOS ANGELES** State: **CA** Zip Code: **90040**

Project Name: **METRO WESTSIDE EXTENSION**
 Project #: **4953-10-1561**
 Sampler: **DWAYNE D. SWIDER**

Relinquished by: **MATT FRAYCHINEAUD** (Signature and Printed Name)
 Date: **7-28-11** Time: **7:00**

Relinquished by: **MATT FRAYCHINEAUD** (Signature and Printed Name)
 Date: **7-28-11** Time: **10:30**

Relinquished by: **MATT FRAYCHINEAUD** (Signature and Printed Name)
 Date: **7-28-11** Time: **11:35**

I hereby authorize ATL to perform the work indicated below:
 Project Mgr / Submitter: **MATT FRAYCHINEAUD**
 Attn: **MATT FRAYCHINEAUD**
 Co: **MATT FRAYCHINEAUD**
 Addr: **MATT FRAYCHINEAUD**
 City: **MATT FRAYCHINEAUD** State: **MATT FRAYCHINEAUD** Zip: **MATT FRAYCHINEAUD**

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

Sample Condition Upon Receipt:
 1. CHILLED 2. SEALED 3. HEADSPACE (VOA) 4. SEALS MATCH COC 5. OF SPLS MATCH COC 6. PRESERVED 7. CONTAINER INTACT 8. PRESERVED

Quote #: **201106374** Date: **7/29/11**
 NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY:

Special Instructions/Comments: _____

Circle or Add Analysis(es) Requested:
 8081A (Pesticides) 8082 (PCB) 8260B (Volatiles) + OXY 8270C (BNA) 8015B (GRO) 8015A (GRO) / 8047 (TEXT) 8015B (DRO) / 8047 (TEXT) TITLE 22 / CAM 17 (6010 / 7000)

Container(s) # Type
 7 TV
 7 TV
 7 TV
 6 JV
 1 T
 1 T
 1 T
 1 T
 1 T

REMARKS
 HOLD
 HOLD
 HOLD
 HOLD
 HOLD
 HOLD

LAB USE ONLY: Batch # / Lab No.	Sample Description	Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX										PRESERVATION	GA / QC				
					SEDIMENT	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS	SEMENT	SOIL	DRINKING WATER			GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS
1 19194-07		E-110-15	7/26	13:15	X	X	X	X	X	X	X	X	X	X	X	X	E	7 TV		
2		E-110-30	7/26	14:10	X	X	X	X	X	X	X	X	X	X	X	X	E	7 TV		
3		E-110-60	7/27	12:55	X	X	X	X	X	X	X	X	X	X	X	X	E	7 TV		
4		E-110-61A	7/27	11:55	X	X	X	X	X	X	X	X	X	X	X	X	E	6 JV		
5		E-110-10	7/26	13:00														1 T		HOLD
6		E-110-20	7/26	13:25														1 T		HOLD
7		E-110-25	7/26	13:35														1 T		HOLD
8		E-110-35	7/27	10:00														1 T		HOLD
9		E-110-40	7/27	10:20	X	X	X	X	X	X	X	X	X	X	X	X		1 T		HOLD
10		E-110-50	7/27	12:20	X	X	X	X	X	X	X	X	X	X	X	X		1 T		HOLD

LAB USE ONLY:
 TAT: A= B= C= D= E= F= G= H= I= J= K= L= M= N= O= P= Q= R= S= T= U= V= W= X= Y= Z=

Emergency Next workday: _____
 Overnight ≤ 24 hrs: _____
 Critical 2 Workdays: _____
 Urgent 3 Workdays: _____
 Routine 7 Workdays: _____

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

Figure I-1.347

August 05, 2011



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

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
Workorder No.: 119194

RE: METRO WESTSIDE EXTENSION, 4953-10-1

Attention: Matt Fraychineaud

Enclosed are the results for sample(s) received on July 29, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "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, 4953-10-1
Lab Order: 119194

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.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-15
Lab Order:	119194	Collection Date:	7/26/2011 1:15:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-001A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS4_110801A	QC Batch: K11VS200	PrepDate: 7/26/2011	Analyst: SLL
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Compound	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,1,1-Trichloroethane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,1,2,2-Tetrachloroethane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,1,2-Trichloroethane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,1-Dichloroethane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,1-Dichloroethene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,1-Dichloropropene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,2,3-Trichlorobenzene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,2,3-Trichloropropane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,2,4-Trichlorobenzene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,2,4-Trimethylbenzene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,2-Dibromo-3-chloropropane	ND	8.3		µg/Kg	1	8/1/2011 01:09 PM
1,2-Dibromoethane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,2-Dichlorobenzene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,2-Dichloroethane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,2-Dichloropropane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,3,5-Trimethylbenzene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,3-Dichlorobenzene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,3-Dichloropropane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
1,4-Dichlorobenzene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
2,2-Dichloropropane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
2-Chlorotoluene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
4-Chlorotoluene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
4-Isopropyltoluene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
Benzene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
Bromobenzene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
Bromodichloromethane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
Bromoform	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
Bromomethane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
Carbon tetrachloride	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
Chlorobenzene	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
Chloroethane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
Chloroform	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
Chloromethane	ND	4.1		µg/Kg	1	8/1/2011 01:09 PM
cis-1,2-Dichloroethene	ND	4.1		µg/Kg	1	8/1/2011 01:09 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

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT: Mactec **Client Sample ID:** E-110-15
Lab Order: 119194 **Collection Date:** 7/26/2011 1:15:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119194-001A

Analyses Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS4_110801A	QC Batch:	K11VS200	PrepDate:	7/26/2011	Analyst:	SLL
cis-1,3-Dichloropropene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Di-isopropyl ether	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Dibromochloromethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Dibromomethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Dichlorodifluoromethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Ethyl Tert-butyl ether	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Ethylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Hexachlorobutadiene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Isopropylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
m,p-Xylene	ND	8.3	µg/Kg	1	8/1/2011 01:09 PM		
Methylene chloride	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
MTBE	9.6	4.1	µg/Kg	1	8/1/2011 01:09 PM		
n-Butylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
n-Propylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Naphthalene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
o-Xylene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
sec-Butylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Styrene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Tert-amyl methyl ether	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Tert-Butanol	ND	83	µg/Kg	1	8/1/2011 01:09 PM		
tert-Butylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Tetrachloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Toluene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
trans-1,2-Dichloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Trichloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Trichlorofluoromethane	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Vinyl chloride	ND	4.1	µg/Kg	1	8/1/2011 01:09 PM		
Surr: 1,2-Dichloroethane-d4	121	65-141	%REC	1	8/1/2011 01:09 PM		
Surr: 4-Bromofluorobenzene	89.9	57-134	%REC	1	8/1/2011 01:09 PM		
Surr: Dibromofluoromethane	111	70-128	%REC	1	8/1/2011 01:09 PM		
Surr: Toluene-d8	96.6	72-123	%REC	1	8/1/2011 01:09 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: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-15
Lab Order:	119194	Collection Date:	7/26/2011 1:15:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-001D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_110801A	QC Batch: E11VS282	PrepDate: 7/26/2011	Analyst: TP		
GRO	ND	0.79	mg/Kg	1	8/1/2011 02:43 PM
Surr: Bromofluorobenzene (FID)	112	51-161	%REC	1	8/1/2011 02:43 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		



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Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-15
Lab Order:	119194	Collection Date:	7/26/2011 1:15:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-001G		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	LUFT			EPA 8015B(M)		
RunID: GC16_110802B	QC Batch: 74666			PrepDate: 8/1/2011		Analyst: CBR
DRO	ND	10		mg/Kg	1	8/3/2011 01:19 AM
ORO	ND	10		mg/Kg	1	8/3/2011 01:19 AM
Surr: p-Terphenyl	80.6	63-152		%REC	1	8/3/2011 01:19 AM

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



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ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-30
Lab Order:	119194	Collection Date:	7/26/2011 2:10:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-002A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS4_110801A	QC Batch: K11VS200	PrepDate: 7/26/2011	Analyst: SLL
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1,1,1,2-Tetrachloroethane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,1,1-Trichloroethane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,1,2,2-Tetrachloroethane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,1,2-Trichloroethane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,1-Dichloroethane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,1-Dichloroethene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,1-Dichloropropene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,2,3-Trichlorobenzene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,2,3-Trichloropropane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,2,4-Trichlorobenzene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,2,4-Trimethylbenzene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,2-Dibromo-3-chloropropane	ND	8.1		µg/Kg	1	8/1/2011 01:27 PM
1,2-Dibromoethane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,2-Dichlorobenzene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,2-Dichloroethane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,2-Dichloropropane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,3,5-Trimethylbenzene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,3-Dichlorobenzene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,3-Dichloropropane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
1,4-Dichlorobenzene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
2,2-Dichloropropane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
2-Chlorotoluene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
4-Chlorotoluene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
4-Isopropyltoluene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
Benzene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
Bromobenzene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
Bromodichloromethane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
Bromoform	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
Bromomethane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
Carbon tetrachloride	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
Chlorobenzene	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
Chloroethane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
Chloroform	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
Chloromethane	ND	4.1		µg/Kg	1	8/1/2011 01:27 PM
cis-1,2-Dichloroethene	ND	4.1		µg/Kg	1	8/1/2011 01:27 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: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-30
Lab Order:	119194	Collection Date:	7/26/2011 2:10:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-002A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS4_110801A	QC Batch: K11VS200	PrepDate: 7/26/2011	Analyst: SLL		
cis-1,3-Dichloropropene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Di-isopropyl ether	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Dibromochloromethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Dibromomethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Dichlorodifluoromethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Ethyl Tert-butyl ether	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Ethylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Hexachlorobutadiene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Isopropylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
m,p-Xylene	ND	8.1	µg/Kg	1	8/1/2011 01:27 PM
Methylene chloride	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
MTBE	7.9	4.1	µg/Kg	1	8/1/2011 01:27 PM
n-Butylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
n-Propylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Naphthalene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
o-Xylene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
sec-Butylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Styrene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Tert-amyl methyl ether	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Tert-Butanol	ND	81	µg/Kg	1	8/1/2011 01:27 PM
tert-Butylbenzene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Tetrachloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Toluene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
trans-1,2-Dichloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Trichloroethene	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Trichlorofluoromethane	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Vinyl chloride	ND	4.1	µg/Kg	1	8/1/2011 01:27 PM
Surr: 1,2-Dichloroethane-d4	120	65-141	%REC	1	8/1/2011 01:27 PM
Surr: 4-Bromofluorobenzene	88.8	57-134	%REC	1	8/1/2011 01:27 PM
Surr: Dibromofluoromethane	109	70-128	%REC	1	8/1/2011 01:27 PM
Surr: Toluene-d8	94.6	72-123	%REC	1	8/1/2011 01:27 PM

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



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ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-30
Lab Order:	119194	Collection Date:	7/26/2011 2:10:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-002D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_110801A	QC Batch: E11VS282	PrepDate: 7/26/2011	Analyst: TP		
GRO	ND	0.83	mg/Kg	1	8/1/2011 02:59 PM
Surr: Bromofluorobenzene (FID)	109	51-161	%REC	1	8/1/2011 02:59 PM

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



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ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-30
Lab Order:	119194	Collection Date:	7/26/2011 2:10:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119194-002G		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	LUFT			EPA 8015B(M)		
RunID: GC16_110802B	QC Batch: 74666			PrepDate: 8/1/2011		Analyst: CBR
DRO	ND	10		mg/Kg	1	8/3/2011 01:09 AM
ORO	ND	10		mg/Kg	1	8/3/2011 01:09 AM
Surr: p-Terphenyl	83.2	63-152		%REC	1	8/3/2011 01:09 AM

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



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ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT: Mactec	Client Sample ID: E-110-60
Lab Order: 119194	Collection Date: 7/27/2011 12:55:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: SOIL
Lab ID: 119194-003A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS4_110801A	QC Batch: K11VS200	PrepDate: 7/26/2011	Analyst: SLL
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1,1,1,2-Tetrachloroethane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,1,1-Trichloroethane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,1,2,2-Tetrachloroethane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,1,2-Trichloroethane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,1-Dichloroethane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,1-Dichloroethene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,1-Dichloropropene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,2,3-Trichlorobenzene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,2,3-Trichloropropane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,2,4-Trichlorobenzene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,2,4-Trimethylbenzene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,2-Dibromo-3-chloropropane	ND	7.7		µg/Kg	1	8/1/2011 01:45 PM
1,2-Dibromoethane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,2-Dichlorobenzene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,2-Dichloroethane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,2-Dichloropropane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,3,5-Trimethylbenzene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,3-Dichlorobenzene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,3-Dichloropropane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
1,4-Dichlorobenzene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
2,2-Dichloropropane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
2-Chlorotoluene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
4-Chlorotoluene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
4-Isopropyltoluene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
Benzene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
Bromobenzene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
Bromodichloromethane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
Bromoform	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
Bromomethane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
Carbon tetrachloride	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
Chlorobenzene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
Chloroethane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
Chloroform	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
Chloromethane	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM
cis-1,2-Dichloroethene	ND	3.8		µg/Kg	1	8/1/2011 01:45 PM

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



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ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT: Mactec **Client Sample ID:** E-110-60
Lab Order: 119194 **Collection Date:** 7/27/2011 12:55:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** SOIL
Lab ID: 119194-003A

Analyses Result PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS4_110801A	QC Batch:	K11VS200	PrepDate:	7/26/2011	Analyst:	SLL
cis-1,3-Dichloropropene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Di-isopropyl ether	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Dibromochloromethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Dibromomethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Dichlorodifluoromethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Ethyl Tert-butyl ether	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Ethylbenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Hexachlorobutadiene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Isopropylbenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
m,p-Xylene	ND	7.7	µg/Kg	1	8/1/2011 01:45 PM		
Methylene chloride	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
MTBE	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
n-Butylbenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
n-Propylbenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Naphthalene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
o-Xylene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
sec-Butylbenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Styrene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Tert-amyl methyl ether	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Tert-Butanol	ND	77	µg/Kg	1	8/1/2011 01:45 PM		
tert-Butylbenzene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Tetrachloroethene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Toluene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
trans-1,2-Dichloroethene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Trichloroethene	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Trichlorofluoromethane	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Vinyl chloride	ND	3.8	µg/Kg	1	8/1/2011 01:45 PM		
Surr: 1,2-Dichloroethane-d4	114	65-141	%REC	1	8/1/2011 01:45 PM		
Surr: 4-Bromofluorobenzene	89.3	57-134	%REC	1	8/1/2011 01:45 PM		
Surr: Dibromofluoromethane	106	70-128	%REC	1	8/1/2011 01:45 PM		
Surr: Toluene-d8	95.0	72-123	%REC	1	8/1/2011 01:45 PM		

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



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ANALYTICAL RESULTS
Print Date: 05-Aug-11

CLIENT: Mactec	Client Sample ID: E-110-60
Lab Order: 119194	Collection Date: 7/27/2011 12:55:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: SOIL
Lab ID: 119194-003D	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_110801A	QC Batch: E11VS282	PrepDate: 7/26/2011	Analyst: TP		
GRO	ND	0.71	mg/Kg	1	8/1/2011 03:15 PM
Surr: Bromofluorobenzene (FID)	108	51-161	%REC	1	8/1/2011 03:15 PM

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



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ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT: Mactec	Client Sample ID: E-110-60
Lab Order: 119194	Collection Date: 7/27/2011 12:55:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: SOIL
Lab ID: 119194-003G	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	LUFT			EPA 8015B(M)		
RunID: GC16_110802B	QC Batch: 74666			PrepDate: 8/1/2011		Analyst: CBR
DRO	ND	10		mg/Kg	1	8/3/2011 01:29 AM
ORO	ND	10		mg/Kg	1	8/3/2011 01:29 AM
Surr: p-Terphenyl	92.7	63-152		%REC	1	8/3/2011 01:29 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	



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ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-GW
Lab Order:	119194	Collection Date:	7/27/2011 11:55:00 AM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	GROUNDWATER
Lab ID:	119194-004A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110801A	QC Batch: Q11VW142	PrepDate:	Analyst: BD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,1,1-Trichloroethane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,1,2-Trichloroethane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,1-Dichloroethane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,1-Dichloroethene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,1-Dichloropropene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,2,3-Trichlorobenzene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,2,3-Trichloropropane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,2,4-Trichlorobenzene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,2,4-Trimethylbenzene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,2-Dibromo-3-chloropropane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,2-Dibromoethane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,2-Dichlorobenzene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,2-Dichloroethane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,2-Dichloropropane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,3,5-Trimethylbenzene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,3-Dichlorobenzene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,3-Dichloropropane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
1,4-Dichlorobenzene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
2,2-Dichloropropane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
2-Chlorotoluene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
4-Chlorotoluene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
4-Isopropyltoluene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
Benzene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
Bromobenzene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
Bromodichloromethane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
Bromoform	ND	0.50	µg/L 1 8/1/2011 08:09 PM
Bromomethane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
Carbon tetrachloride	ND	0.50	µg/L 1 8/1/2011 08:09 PM
Chlorobenzene	ND	0.50	µg/L 1 8/1/2011 08:09 PM
Chloroethane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
Chloroform	ND	0.50	µg/L 1 8/1/2011 08:09 PM
Chloromethane	ND	0.50	µg/L 1 8/1/2011 08:09 PM
cis-1,2-Dichloroethene	7.6	0.50	µg/L 1 8/1/2011 08:09 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	



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ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT: Mactec **Client Sample ID:** E-110-GW
Lab Order: 119194 **Collection Date:** 7/27/2011 11:55:00 AM
Project: METRO WESTSIDE EXTENSION, 4953-10 **Matrix:** GROUNDWATER
Lab ID: 119194-004A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS2_110801A	QC Batch:	Q11VW142	PrepDate:	Analyst:	BD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Di-isopropyl ether	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Dibromochloromethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Dibromomethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Dichlorodifluoromethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Ethyl tert-butyl ether	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Ethylbenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Hexachlorobutadiene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Isopropylbenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
m,p-Xylene	ND	1.0	µg/L	1	8/1/2011 08:09 PM	
Methylene chloride	ND	1.0	µg/L	1	8/1/2011 08:09 PM	
MTBE	21	0.50	µg/L	1	8/1/2011 08:09 PM	
n-Butylbenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
n-Propylbenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Naphthalene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
o-Xylene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
sec-Butylbenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Styrene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Tert-amyl methyl ether	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Tert-Butanol	ND	10	µg/L	1	8/1/2011 08:09 PM	
tert-Butylbenzene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Tetrachloroethene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Toluene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Trichloroethene	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Trichlorofluoromethane	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Vinyl chloride	ND	0.50	µg/L	1	8/1/2011 08:09 PM	
Surr: 1,2-Dichloroethane-d4	72.6	70-130	%REC	1	8/1/2011 08:09 PM	
Surr: 4-Bromofluorobenzene	99.6	70-130	%REC	1	8/1/2011 08:09 PM	
Surr: Dibromofluoromethane	87.8	70-130	%REC	1	8/1/2011 08:09 PM	
Surr: Toluene-d8	93.6	70-130	%REC	1	8/1/2011 08:09 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



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ANALYTICAL RESULTS

Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-GW
Lab Order:	119194	Collection Date:	7/27/2011 11:55:00 AM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	GROUNDWATER
Lab ID:	119194-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC19_110801B	QC Batch: M11VW151	PrepDate:	Analyst: BB		
GRO	ND	0.20	mg/L	1	8/1/2011 07:00 PM
Surr: Bromofluorobenzene (FID)	88.2	70-130	%REC	1	8/1/2011 07:00 PM

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



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

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ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-110-GW
Lab Order:	119194	Collection Date:	7/27/2011 11:55:00 AM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	GROUNDWATER
Lab ID:	119194-004C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3510C		EPA 8015B(M)			
RunID: GC16_110804A	QC Batch: 74703			PrepDate: 8/3/2011		Analyst: CBR
DRO	0.60	0.25		mg/L	1	8/4/2011 03:28 PM
ORO	0.52	0.25		mg/L	1	8/4/2011 03:28 PM
Surr: p-Terphenyl	74.7	36-126		%REC	1	8/4/2011 03:28 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
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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 05-Aug-11

CLIENT: Mactec	Client Sample ID: E-110-20
Lab Order: 119194	Collection Date: 7/26/2011 1:25:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: SOIL
Lab ID: 119194-006A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B		EPA 6010B				
RunID: ICP8_110803D	QC Batch: 74700			PrepDate: 8/3/2011		Analyst: IL
Antimony	ND	2.0		mg/Kg	1	8/3/2011 02:38 PM
Arsenic	ND	1.0		mg/Kg	1	8/3/2011 02:38 PM
Barium	37	1.0		mg/Kg	1	8/3/2011 02:38 PM
Beryllium	ND	1.0		mg/Kg	1	8/3/2011 02:38 PM
Cadmium	1.0	1.0		mg/Kg	1	8/3/2011 02:38 PM
Chromium	21	1.0		mg/Kg	1	8/3/2011 02:38 PM
Cobalt	9.4	1.0		mg/Kg	1	8/3/2011 02:38 PM
Copper	12	2.0		mg/Kg	1	8/3/2011 02:38 PM
Lead	3.5	1.0		mg/Kg	1	8/3/2011 02:38 PM
Molybdenum	ND	1.0		mg/Kg	1	8/3/2011 02:38 PM
Nickel	20	1.0		mg/Kg	1	8/3/2011 02:38 PM
Selenium	ND	1.0		mg/Kg	1	8/3/2011 02:38 PM
Silver	ND	1.0		mg/Kg	1	8/3/2011 02:38 PM
Thallium	ND	1.0		mg/Kg	1	8/3/2011 02:38 PM
Vanadium	37	1.0		mg/Kg	1	8/3/2011 02:38 PM
Zinc	37	1.0		mg/Kg	1	8/3/2011 02:38 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A					
RunID: AA1_110803A	QC Batch: 74694	PrepDate: 8/2/2011	Analyst: VV		
Mercury	ND	0.10	mg/Kg	1	8/3/2011 12:07 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

CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

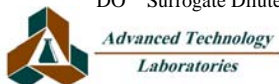
TestCode: 6010_S

Sample ID: MB-74700	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 8/3/2011	RunNo: 135569						
Client ID: PBS	Batch ID: 74700	TestNo: EPA 6010B EPA 3050B		Analysis Date: 8/3/2011	SeqNo: 2220449						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	0.061	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	0.111	1.0									
Vanadium	ND	1.0									
Zinc	0.814	1.0									

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

Qualifiers:

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



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

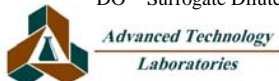
TestCode: 6010_S

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

Sample ID: 119200-012A-MS		SampType: MS		TestCode: 6010_S		Units: mg/Kg		Prep Date: 8/3/2011		RunNo: 135569		
Client ID: ZZZZZZ		Batch ID: 74700		TestNo: EPA 6010B EPA 3050B				Analysis Date: 8/3/2011		SeqNo: 2220469		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Antimony	78.085	2.0	125.0	0.2317	62.3	32	105					
Arsenic	104.342	1.0	125.0	15.63	71.0	49	106					
Barium	184.499	1.0	125.0	86.40	78.5	31	133					
Cadmium	86.706	1.0	125.0	0.5723	68.9	51	103					
Chromium	93.833	1.0	125.0	11.94	65.5	45	114					
Cobalt	94.518	1.0	125.0	3.613	72.7	52	106					
Copper	103.314	2.0	125.0	4.466	79.1	54	125					
Lead	107.580	1.0	125.0	22.83	67.8	34	126					
Molybdenum	88.780	1.0	125.0	0	71.0	54	106					
Nickel	89.365	1.0	125.0	5.873	66.8	45	111					
Selenium	82.027	1.0	125.0	0	65.6	47	104					
Silver	92.089	1.0	125.0	0	73.7	56	112					
Thallium	82.542	1.0	125.0	0	66.0	46	101					
Vanadium	119.977	1.0	125.0	24.17	76.6	54	114					
Zinc	136.924	1.0	125.0	47.39	71.6	28	125					

Qualifiers:

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



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

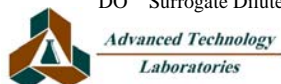
Sample ID: 119200-012A-MSD		SampType: MSD		TestCode: 6010_S		Units: mg/Kg		Prep Date: 8/3/2011		RunNo: 135569	
Client ID: ZZZZZZ		Batch ID: 74700		TestNo: EPA 6010B EPA 3050B		Analysis Date: 8/3/2011		SeqNo: 2220470			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD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

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

Sample ID: 119200-012A-MSD		SampType: MSD		TestCode: 6010_S		Units: mg/Kg		Prep Date: 8/3/2011		RunNo: 135569	
Client ID: ZZZZZZ		Batch ID: 74700		TestNo: EPA 6010B EPA 3050B		Analysis Date: 8/3/2011		SeqNo: 2220476			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	104.805	5.0	125.0	0	83.8	56	106	102.5	2.27	20	

Qualifiers:

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



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

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

Mercury ND 0.10

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

Mercury 0.750 0.10 0.8300 0 90.3 80 120

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

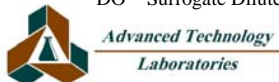
Mercury 0.756 0.10 0.8300 0 91.1 70 130

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

Mercury 0.750 0.10 0.8300 0 90.4 70 130 0.7564 0.844 20

Qualifiers:

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



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM H

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

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

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

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

Sample ID: 119194-002GMS	SampType: MS	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 8/1/2011	RunNo: 135542						
Client ID: E-110-30	Batch ID: 74666	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/3/2011	SeqNo: 2219818						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

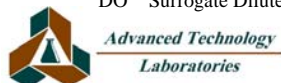
DRO	820.410	10	1000	0	82.0	60	158				
Surr: p-Terphenyl	79.790		80.00		99.7	63	152				

Sample ID: 119194-002GMSD	SampType: MSD	TestCode: 8015_S_DM H	Units: mg/Kg	Prep Date: 8/1/2011	RunNo: 135542						
Client ID: E-110-30	Batch ID: 74666	TestNo: EPA 8015B(M LUFT		Analysis Date: 8/3/2011	SeqNo: 2219819						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	899.490	10	1000	0	89.9	60	158	820.4	9.20	20	
Surr: p-Terphenyl	78.410		80.00		98.0	63	152		0	0	

Qualifiers:

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



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_G 5035P

Sample ID: E110801LC1	SampType: LCS	TestCode: 8015_S_G 50	Units: mg/Kg	Prep Date:	RunNo: 135498						
Client ID: LCSS	Batch ID: E11VS282	TestNo: EPA 8015B(M)	Analysis Date: 8/1/2011	SeqNo: 2219918							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.642	1.0	5.000	0	92.8	70	130				
Surr: Bromofluorobenzene (FID)	120.843		100.0		121	51	161				

Sample ID: E110801MB1MS	SampType: MS	TestCode: 8015_S_G 50	Units: mg/Kg	Prep Date:	RunNo: 135498						
Client ID: ZZZZZ	Batch ID: E11VS282	TestNo: EPA 8015B(M)	Analysis Date: 8/1/2011	SeqNo: 2219919							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.561	1.0	5.000	0	91.2	41	146				
Surr: Bromofluorobenzene (FID)	116.256		100.0		116	51	161				

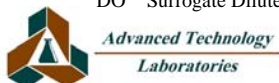
Sample ID: E110801MB1MSD	SampType: MSD	TestCode: 8015_S_G 50	Units: mg/Kg	Prep Date:	RunNo: 135498						
Client ID: ZZZZZ	Batch ID: E11VS282	TestNo: EPA 8015B(M)	Analysis Date: 8/1/2011	SeqNo: 2219920							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.495	1.0	5.000	0	89.9	41	146	4.561	1.46	20	
Surr: Bromofluorobenzene (FID)	116.599		100.0		117	51	161		0	0	

Sample ID: E110801MB1	SampType: MBLK	TestCode: 8015_S_G 50	Units: mg/Kg	Prep Date:	RunNo: 135498						
Client ID: PBS	Batch ID: E11VS282	TestNo: EPA 8015B(M)	Analysis Date: 8/1/2011	SeqNo: 2219921							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0									
Surr: Bromofluorobenzene (FID)	83.730		100.0		83.7	51	161				

Sample ID: 119191-002AMS	SampType: MS	TestCode: 8015_S_G 50	Units: mg/Kg	Prep Date:	RunNo: 135498						
Client ID: ZZZZZ	Batch ID: E11VS282	TestNo: EPA 8015B(M)	Analysis Date: 8/1/2011	SeqNo: 2219926							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	3.538	1.0	5.000	0	70.8	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: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

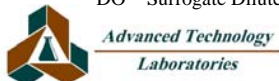
TestCode: 8015_S_G 5035P

Sample ID: 119191-002AMS	SampType: MS	TestCode: 8015_S_G 50	Units: mg/Kg	Prep Date:	RunNo: 135498						
Client ID: ZZZZZZ	Batch ID: E11VS282	TestNo: EPA 8015B(M)	Analysis Date: 8/1/2011	SeqNo: 2219926							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	115.593		100.0		116	51	161				

Sample ID: 119191-002AMSD	SampType: MSD	TestCode: 8015_S_G 50	Units: mg/Kg	Prep Date:	RunNo: 135498						
Client ID: ZZZZZZ	Batch ID: E11VS282	TestNo: EPA 8015B(M)	Analysis Date: 8/1/2011	SeqNo: 2219927							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	3.868	1.0	5.000	0	77.4	41	146	3.538	8.91	20	
Surr: Bromofluorobenzene (FID)	117.387		100.0		117	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: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DM

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

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

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

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

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

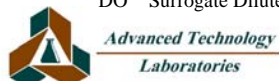
DRO	0.532	0.20	0.5000	0	106	52	128				
Surr: p-Terphenyl	0.048		0.08000		59.7	36	126				

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

DRO	0.481	0.20	0.5000	0	96.2	52	128	0.5317	9.99	20	
Surr: p-Terphenyl	0.038		0.08000		48.1	36	126		0	0	

Qualifiers:

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



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_G PRES

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

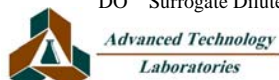
Sample ID: M110801MB1MS		SampType: MS		TestCode: 8015_W_G P		Units: mg/L		Prep Date:		RunNo: 135493		
Client ID: ZZZZZ		Batch ID: M11VW151		TestNo: EPA 8015B(M)		Analysis Date: 8/1/2011		SeqNo: 2218833				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual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

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

Sample ID: M110801MB1		SampType: MBLK		TestCode: 8015_W_G P		Units: mg/L		Prep Date:		RunNo: 135493		
Client ID: PBW		Batch ID: M11VW151		TestNo: EPA 8015B(M)		Analysis Date: 8/1/2011		SeqNo: 2218835				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
GRO	ND	0.20										
Surr: Bromofluorobenzene (FID)	88.225		100.0		88.2	70	130					

Qualifiers:

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



CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

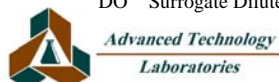
Sample ID: K110801LCS1		SampType: LCS		TestCode: 8260_S_5035		Units: µg/Kg		Prep Date:		RunNo: 135474	
Client ID: LCSS		Batch ID: K11VS200		TestNo: EPA 8260B		Analysis Date: 8/1/2011				SeqNo: 2220034	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene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

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

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



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CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

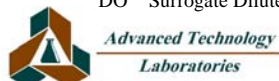
TestCode: 8260_S_5035

Sample ID: K110801MB1MSD		SampType: MSD		TestCode: 8260_S_5035		Units: µg/Kg		Prep Date:		RunNo: 135474	
Client ID: ZZZZZZ		Batch ID: K11VS200		TestNo: EPA 8260B		Analysis Date: 8/1/2011				SeqNo: 2220036	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	47.640	5.0	50.00	0	95.3	70	130	49.23	3.28	20	
Benzene	96.990	5.0	100.0	0	97.0	70	130	97.09	0.103	20	
Chlorobenzene	50.550	5.0	50.00	0	101	70	130	51.75	2.35	20	
MTBE	59.970	5.0	50.00	0	120	70	130	60.90	1.54	20	
Toluene	97.170	5.0	100.0	0	97.2	70	130	97.34	0.175	20	
Trichloroethene	48.820	5.0	50.00	0	97.6	70	130	49.21	0.796	20	
Surr: 1,2-Dichloroethane-d4	52.940		50.00		106	65	141		0	0	
Surr: 4-Bromofluorobenzene	44.580		50.00		89.2	57	134		0	0	
Surr: Dibromofluoromethane	50.720		50.00		101	70	128		0	0	
Surr: Toluene-d8	47.420		50.00		94.8	72	123		0	0	

Sample ID: K110801MB1		SampType: MBLK		TestCode: 8260_S_5035		Units: µg/Kg		Prep Date:		RunNo: 135474	
Client ID: PBS		Batch ID: K11VS200		TestNo: EPA 8260B		Analysis Date: 8/1/2011				SeqNo: 2220037	
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: 119194

Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID: K110801MB1	SampType: MBLK	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	RunNo: 135474						
Client ID: PBS	Batch ID: K11VS200	TestNo: EPA 8260B		Analysis Date: 8/1/2011	SeqNo: 2220037						
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
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- DO Surrogate Diluted Out
- Calculations are based on raw values



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CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID: K110801MB1	SampType: MBLK	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	RunNo: 135474						
Client ID: PBS	Batch ID: K11VS200	TestNo: EPA 8260B	Analysis Date: 8/1/2011	SeqNo: 2220037							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
Tert-amyl methyl ether	ND	5.0									
Tert-Butanol	ND	100									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	55.660		50.00		111	65	141				
Surr: 4-Bromofluorobenzene	43.630		50.00		87.3	57	134				
Surr: Dibromofluoromethane	51.660		50.00		103	70	128				
Surr: Toluene-d8	47.360		50.00		94.7	72	123				

Qualifiers:

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



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

CLIENT: Mactec
Work Order: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

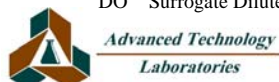
Sample ID: Q110801CS1		SampType: LCS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 135509		
Client ID: LCSW		Batch ID: Q11VW142		TestNo: EPA 8260B		Analysis Date: 8/1/2011		SeqNo: 2218975				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethene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

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

Sample ID: Q110801MB3MSD		SampType: MSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 135509		
Client ID: ZZZZZ		Batch ID: Q11VW142		TestNo: EPA 8260B		Analysis Date: 8/1/2011		SeqNo: 2218977				
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: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

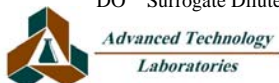
TestCode: 8260_WP_LL

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

Sample ID: Q110801MB3		SampType: MBLK		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 135509	
Client ID: PBW		Batch ID: Q11VW142		TestNo: EPA 8260B		Analysis Date: 8/1/2011				SeqNo: 2218978	
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: 119194

Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: Q110801MB3	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 135509						
Client ID: PBW	Batch ID: Q11VW142	TestNo: EPA 8260B		Analysis Date: 8/1/2011	SeqNo: 2218978						
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: 119194
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: Q110801MB3	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 135509						
Client ID: PBW	Batch ID: Q11VW142	TestNo: EPA 8260B	Analysis Date: 8/1/2011	SeqNo: 2218978							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	1.0									
MTBE	ND	0.50									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
Tert-amyl methyl ether	ND	0.50									
Tert-Butanol	ND	10									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	19.160		25.00		76.6	70	130				
Surr: 4-Bromofluorobenzene	24.670		25.00		98.7	70	130				
Surr: Dibromofluoromethane	22.100		25.00		88.4	70	130				
Surr: Toluene-d8	23.170		25.00		92.7	70	130				

Qualifiers:

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



*Advanced Technology
Laboratories*

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

CHAIN OF CUSTODY RECORD

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

P.O.#: 201106374 Quote #: _____
 Logged By: _____ Date: 7/29/11
 NOTE: Please include your Quote No. to ensure proper pricing of your project.

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

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

Project Name: METRO WESTSIDE EXTENSION Project #: 4953-10-1561 Sampler: Dylan D. Swider (Signature)
 Relinquished by: (Signature and Printed Name) [Signature] Date: 7-28-11 Time: 7:00 Received by: (Signature and Printed Name) Matt Fraychineaud Date: 7/28/11 Time: 0700
 Relinquished by: (Signature and Printed Name) [Signature] Date: 7/28/11 Time: 10:30 Received by: (Signature and Printed Name) [Signature] Date: 7/28/11 Time: 1030
 Relinquished by: (Signature and Printed Name) [Signature] Date: 7/29/11 Time: 11:35 Received by: (Signature and Printed Name) [Signature] Date: 7/29/11 Time: 1135

I hereby authorize ATL to perform the work indicated below:
 Project Mgr / Submitter: Matt Fraychineaud Date: 7/28/11
[Signature] Date: _____
 Attn: _____
 Co: _____
 Addr: _____
 City: _____ State: _____ Zip: _____

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

Special Instructions/Comments: FDIWA

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 Description	Sample I.D. / Location		Date		Time
			Sample I.D.	Location	Date	Time	
1	19194-07	E-110-15			7/26	13:15	
2		E-110-30			7/26	14:10	
3		E-110-60			7/27	12:55	
4		E-110-61W			7/27	11:55	
5		E-110-10			7/26	13:00	
6		E-110-20			7/26	13:25	
7		E-110-25			7/26	13:35	
8		E-110-35			7/27	10:00	
9		E-110-40			7/27	10:20	
10		E-110-50			7/27	12:20	

Circle or Add Analysis(es) Requested

Analysis	8081A (Pesticides)	8260B (Nitrates) + Oxy	8270C (BNA)	8010B (Total Metal)	8015B (GRO) / 8021 (BTEX)	8015B (DRO) / 8022 / CAM 17 (6010 / 7000)	8015B (GRO) / 8021 (BTEX)	8015B (DRO) / 8022 / CAM 17 (6010 / 7000)
SEDIMENT	X							
SOIL	X							
GROUND WATER	X							
DRINKING WATER	X							
WASTEWATER	X							
STORMWATER	X							
AQUEOUS	X							

SPECIFY APPROPRIATE MATRIX

Container(s)	TAT	Type
E 7 TV		TV
E 7 TV		TV
E 7 TV		TV
E 6 JV		JV
1 T		T
1 T		T
1 T		T
1 T		T
1 T		T

QA/QC

RTNE	CT	Legal	SWRCB Logcode	OTHER	REMARKS
					Hold
					Hold
					Hold
					Hold
					Hold

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Becliar G=Glass P=Plastic M=Metal
 TAT: A= Overnight ≤ 24 hrs B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂O₂

Figure I-1.384

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 #: _____
 Logged By: _____ Date: _____

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

FOR LABORATORY USE ONLY:

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

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

Client: MACTEC Address: 5628 E. SLAWSON AVE State: CA Zip Code: 90040
 Attn: MATT FRAYCHINEAUD City: LOS ANGELES

Project Name: METRO WESTSIDE EXTENSION Project #: 4953-10-1561 Sampler: DUANE D. SWIDER
 Relinquished by: Duane D. Swider Date: 7-28-11 Time: 7:00 Received by: Matt Fraychineaud Date: 7/28/11 Time: 0700
 Relinquished by: Matt Fraychineaud Date: 7/28/11 Time: 1030 Received by: Matt Fraychineaud Date: 7/29/11 Time: 1036
 Relinquished by: Matt Fraychineaud Date: 7/29/11 Time: 1135 Received by: Matt Fraychineaud Date: 7/29/11 Time: 1036

I hereby authorize ATL to perform the work indicated below:
 Project Mgr / Submitter: Matt Fraychineaud
 Signature: Matt Fraychineaud Date: 7/28/11
 Signature: Matt Fraychineaud Date: 7/28/11

Bill To: _____ Attn: _____
 Co: _____
 Addr: _____
 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 Description	Sample I.D. / Location		Date / Time	
			Sample I.D. / Location	Date	Time	
119194-	11	E-110-55			7/27	12:40
	12	E-110-65			7/27	13:15
	13	E-110-70			7/27	13:35
	14	E-110-75			7/27	14:00

Circle or Add Analysis(es) Requested:
 8081A (pesticides) 8250B (PCB) 8270C (Volatiles) 8010B (BNA) 8015B (GRO) / 8021 (BTEX) 8015B (DRO) / 8020 TITLE 22 / CAM 17 (6010 / 7000)

SPECIFY APPROPRIATE MATRIX:
 SEDIMENT SOIL DRINKING WATER GROUND WATER WASTEWATER STORMWATER AQUEOUS

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

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

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-1.385

August 11, 2011



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

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
Workorder No.: 119195

RE: METRO WESTSIDE EXTENSION, 4953-10-1

Attention: Matt Fraychineaud

Enclosed are the results for sample(s) received on July 29, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

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: 11-Aug-11

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110809A	QC Batch: T11VS141	PrepDate:	Analyst: DDL
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,1,1-Trichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,1,2-Trichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,1-Dichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,1-Dichloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,1-Dichloropropene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2,3-Trichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg 1 8/9/2011 02:16 PM
1,2-Dibromoethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2-Dichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2-Dichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,2-Dichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,3-Dichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,3-Dichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
1,4-Dichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
2,2-Dichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
2-Chlorotoluene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
4-Chlorotoluene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
4-Isopropyltoluene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Benzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Bromobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Bromodichloromethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Bromoform	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Bromomethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Carbon tetrachloride	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Chlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Chloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Chloroform	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Chloromethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:16 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: 11-Aug-11

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110809A	QC Batch: T11VS141	PrepDate:	Analyst: DDL
cis-1,3-Dichloropropene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Di-isopropyl ether	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Dibromochloromethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Dibromomethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Ethyl Tert-butyl ether	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Ethylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Hexachlorobutadiene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Isopropylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
m,p-Xylene	ND	10	µg/Kg 1 8/9/2011 02:16 PM
Methylene chloride	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
MTBE	11	5.0	µg/Kg 1 8/9/2011 02:16 PM
n-Butylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
n-Propylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Naphthalene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
o-Xylene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
sec-Butylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Styrene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Tert-amyl methyl ether	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Tert-Butanol	ND	100	µg/Kg 1 8/9/2011 02:16 PM
tert-Butylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Tetrachloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Toluene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Trichloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Trichlorofluoromethane	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Vinyl chloride	ND	5.0	µg/Kg 1 8/9/2011 02:16 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%REC 1 8/9/2011 02:16 PM
Surr: 4-Bromofluorobenzene	90.0	70-130	%REC 1 8/9/2011 02:16 PM
Surr: Dibromofluoromethane	106	70-130	%REC 1 8/9/2011 02:16 PM
Surr: Toluene-d8	96.2	70-130	%REC 1 8/9/2011 02:16 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: 11-Aug-11

CLIENT:	Mactec	Client Sample ID:	E-111-45
Lab Order:	119195	Collection Date:	7/28/2011 11:45:00 AM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	119195-010A		

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

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110809A	QC Batch: T11VS141	PrepDate:	Analyst: DDL
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,1,1-Trichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,1,2-Trichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,1-Dichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,1-Dichloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,1-Dichloropropene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2,3-Trichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg 1 8/9/2011 02:34 PM
1,2-Dibromoethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2-Dichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2-Dichloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,2-Dichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,3-Dichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,3-Dichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
1,4-Dichlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
2,2-Dichloropropane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
2-Chlorotoluene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
4-Chlorotoluene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
4-Isopropyltoluene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Benzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Bromobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Bromodichloromethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Bromoform	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Bromomethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Carbon tetrachloride	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Chlorobenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Chloroethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Chloroform	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Chloromethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:34 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

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ANALYTICAL RESULTS

Print Date: 11-Aug-11

CLIENT: Mactec	Client Sample ID: E-111-45
Lab Order: 119195	Collection Date: 7/28/2011 11:45:00 AM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: SOIL
Lab ID: 119195-010A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS5_110809A	QC Batch: T11VS141	PrepDate:	Analyst: DDL
cis-1,3-Dichloropropene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Di-isopropyl ether	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Dibromochloromethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Dibromomethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Dichlorodifluoromethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Ethyl Tert-butyl ether	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Ethylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Hexachlorobutadiene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Isopropylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
m,p-Xylene	ND	10	µg/Kg 1 8/9/2011 02:34 PM
Methylene chloride	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
MTBE	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
n-Butylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
n-Propylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Naphthalene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
o-Xylene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
sec-Butylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Styrene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Tert-amyl methyl ether	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Tert-Butanol	ND	100	µg/Kg 1 8/9/2011 02:34 PM
tert-Butylbenzene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Tetrachloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Toluene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
trans-1,2-Dichloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Trichloroethene	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Trichlorofluoromethane	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Vinyl chloride	ND	5.0	µg/Kg 1 8/9/2011 02:34 PM
Surr: 1,2-Dichloroethane-d4	105	70-130	%REC 1 8/9/2011 02:34 PM
Surr: 4-Bromofluorobenzene	88.2	70-130	%REC 1 8/9/2011 02:34 PM
Surr: Dibromofluoromethane	111	70-130	%REC 1 8/9/2011 02:34 PM
Surr: Toluene-d8	96.6	70-130	%REC 1 8/9/2011 02:34 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	



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

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

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

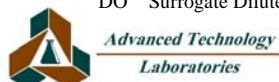
Sample ID: T110809LCS1		SampType: LCS		TestCode: 8260_S		Units: µg/Kg		Prep Date:		RunNo: 135687	
Client ID: LCSS		Batch ID: T11VS141		TestNo: EPA 8260B		Analysis Date: 8/9/2011				SeqNo: 2222703	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	54.850	5.0	50.00	0	110	70	130				
Benzene	104.320	5.0	100.0	0	104	70	130				
Chlorobenzene	55.290	5.0	50.00	0	111	82	130				
MTBE	59.830	5.0	50.00	0	120	70	130				
Toluene	107.450	5.0	100.0	0	107	70	130				
Trichloroethene	54.850	5.0	50.00	0	110	77	130				
Surr: 1,2-Dichloroethane-d4	52.650		50.00		105	70	130				
Surr: 4-Bromofluorobenzene	42.710		50.00		85.4	70	130				
Surr: Dibromofluoromethane	56.840		50.00		114	70	130				
Surr: Toluene-d8	49.440		50.00		98.9	70	130				

Sample ID: T110809MB1MS		SampType: MS		TestCode: 8260_S		Units: µg/Kg		Prep Date:		RunNo: 135687	
Client ID: ZZZZZ		Batch ID: T11VS141		TestNo: EPA 8260B		Analysis Date: 8/9/2011				SeqNo: 2222704	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	52.770	5.0	50.00	0	106	70	130				
Benzene	103.860	5.0	100.0	0	104	70	130				
Chlorobenzene	54.000	5.0	50.00	0	108	70	130				
MTBE	57.080	5.0	50.00	0	114	70	130				
Toluene	107.840	5.0	100.0	0	108	70	130				
Trichloroethene	54.200	5.0	50.00	0	108	70	130				
Surr: 1,2-Dichloroethane-d4	49.220		50.00		98.4	70	130				
Surr: 4-Bromofluorobenzene	44.340		50.00		88.7	70	130				
Surr: Dibromofluoromethane	53.530		50.00		107	70	130				
Surr: Toluene-d8	49.490		50.00		99.0	70	130				

Sample ID: T110809MB1MSD		SampType: MSD		TestCode: 8260_S		Units: µg/Kg		Prep Date:		RunNo: 135687	
Client ID: ZZZZZ		Batch ID: T11VS141		TestNo: EPA 8260B		Analysis Date: 8/9/2011				SeqNo: 2222705	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

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



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

ANALYTICAL QC SUMMARY REPORT

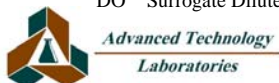
TestCode: 8260_S

Sample ID: T110809MB1MSD		SampType: MSD		TestCode: 8260_S		Units: µg/Kg		Prep Date:		RunNo: 135687	
Client ID: ZZZZZ		Batch ID: T11VS141		TestNo: EPA 8260B		Analysis Date: 8/9/2011				SeqNo: 2222705	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	53.470	5.0	50.00	0	107	70	130	52.77	1.32	20	
Benzene	101.880	5.0	100.0	0	102	70	130	103.9	1.92	20	
Chlorobenzene	54.910	5.0	50.00	0	110	70	130	54.00	1.67	20	
MTBE	57.330	5.0	50.00	0	115	70	130	57.08	0.437	20	
Toluene	108.000	5.0	100.0	0	108	70	130	107.8	0.148	20	
Trichloroethene	54.360	5.0	50.00	0	109	70	130	54.20	0.295	20	
Surr: 1,2-Dichloroethane-d4	48.270		50.00		96.5	70	130		0	0	
Surr: 4-Bromofluorobenzene	43.260		50.00		86.5	70	130		0	0	
Surr: Dibromofluoromethane	55.470		50.00		111	70	130		0	0	
Surr: Toluene-d8	49.950		50.00		99.9	70	130		0	0	

Sample ID: T110809MB1		SampType: MBLK		TestCode: 8260_S		Units: µg/Kg		Prep Date:		RunNo: 135687	
Client ID: PBS		Batch ID: T11VS141		TestNo: EPA 8260B		Analysis Date: 8/9/2011				SeqNo: 2222706	
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: 119195
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID: T110809MB1	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: PBS	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222706						
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:

- | | | |
|---|--|--|
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| DO Surrogate Diluted Out | Calculations are based on raw values | |



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

ANALYTICAL QC SUMMARY REPORT

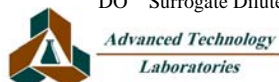
TestCode: 8260_S

Sample ID: T110809MB1	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: PBS	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222706						
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	52.090		50.00		104	70	130				
Surr: 4-Bromofluorobenzene	44.270		50.00		88.5	70	130				
Surr: Dibromofluoromethane	54.170		50.00		108	70	130				
Surr: Toluene-d8	49.310		50.00		98.6	70	130				

Sample ID: 119294-001AMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: ZZZZZZ	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	47.240	5.0	50.00	0	94.5	70	130				
Benzene	89.930	5.0	100.0	0	89.9	70	130				
Chlorobenzene	47.710	5.0	50.00	0	95.4	70	130				
MTBE	49.950	5.0	50.00	0	99.9	70	130				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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| DO Surrogate Diluted Out | Calculations are based on raw values | |



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

ANALYTICAL QC SUMMARY REPORT

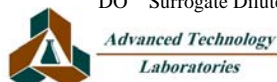
TestCode: 8260_S

Sample ID: 119294-001AMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: ZZZZZZ	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	93.310	5.0	100.0	0	93.3	70	130				
Trichloroethene	45.710	5.0	50.00	0	91.4	70	130				
Surr: 1,2-Dichloroethane-d4	52.940		50.00		106	70	130				
Surr: 4-Bromofluorobenzene	44.410		50.00		88.8	70	130				
Surr: Dibromofluoromethane	57.250		50.00		114	70	130				
Surr: Toluene-d8	48.490		50.00		97.0	70	130				

Sample ID: 119294-001AMSD	SampType: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date:	RunNo: 135687						
Client ID: ZZZZZZ	Batch ID: T11VS141	TestNo: EPA 8260B		Analysis Date: 8/9/2011	SeqNo: 2222709						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	40.830	5.0	50.00	0	81.7	70	130	47.24	14.6	20	
Benzene	78.930	5.0	100.0	0	78.9	70	130	89.93	13.0	20	
Chlorobenzene	41.160	5.0	50.00	0	82.3	70	130	47.71	14.7	20	
MTBE	44.230	5.0	50.00	0	88.5	70	130	49.95	12.1	20	
Toluene	82.810	5.0	100.0	0	82.8	70	130	93.31	11.9	20	
Trichloroethene	41.710	5.0	50.00	0	83.4	70	130	45.71	9.15	20	
Surr: 1,2-Dichloroethane-d4	49.650		50.00		99.3	70	130		0	0	
Surr: 4-Bromofluorobenzene	43.190		50.00		86.4	70	130		0	0	
Surr: Dibromofluoromethane	55.180		50.00		110	70	130		0	0	
Surr: Toluene-d8	46.830		50.00		93.7	70	130		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 |
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