



AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
 5775 Walnut Ave.
 Signal Hill, CA 90755-5225

Telephone: (562)989-4045

Attn: Rachelle Arada

Page: 2

Project ID: 118501

ASL Job Number	Sample Date	Client
50277	06/17/2011	ATL

Method: SM5210B, Biochemical Oxygen Demand (BOD)

QC Batch No: 062211-1

Client Sample I.D.	118501-001C				
Date Sampled	06/17/2011				
Date Prepared	06/17/2011				
Preparation Method					
Date Analyzed	06/22/2011				
Matrix	Groundwater				
Units	mg/L				
Dilution Factor	1				
Conventional					
BOD @ 20C	5.00	ND			

QUALITY CONTROL REPORT

QC Batch No: 062211-1

	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit				
Conventional									
BOD @ 20C	100	98	2.0	80-120	20				



Advanced Technology Laboratories
 3275 Walnut Avenue, Signal Hill, CA 90755-5225
 www.atglobal.com
 TEL: (562) 989-4045 FAX: (562) 989-4040

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

American Scientific Laboratory
 2520 N. San Fernando Rd.
 Los Angeles, CA 90065



TEL: (323) 254-7700
 FAX: (323) 223-9500
 Acct #:

Field Sampler: ANTHONY MARINO

17-Jun-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests
118501-001C / P-103 / UCLA LOT 36	Groundwater	6/17/2011 10:45:00 AM	32OZP	SM5210B 1

General Comments: Please email sample receipt acknowledgement to the PM. **(RA)**
 Please use PO#: SC06506 Please fax results by: NORMAL TAT
 PLEASE SEND REPORT TO RACHELLE ARADA

Date/Time	Date/Time
Relinquished by: 	Received by: 
Relinquished by: _____	Received by: _____
_____	_____
_____	6/17/11
_____	17-Jun-11 3:15

August 26, 2011



Anthony Marino
AMEC E&I
2171 Campus Drive, Suite 100
Irvine, CA 92612
TEL: (949) 224-0050
FAX: (949) 224-0073

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
Workorder No.: 119461

RE: MTA Westside Extention, 4953101561/6.2.3.3.

Attention: Anthony Marino

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

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

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

Sincerely,

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

Eddie F. Rodriguez
Laboratory Director

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



CLIENT: AMEC E&I
Project: MTA Westside Extention, 4953101561/6.2.3.3.
Lab Order: 119461

CASE NARRATIVE

The sample for SM5210B (BOD) analysis was subcontracted to American Scientific Laboratories with ELAP Cert.# 2200.

Sample Receiving / General Comments

Sample received beyond holding time for SM4500-H+B (pH) and SM4500-Cl G (Residual Chlorine) analyses.

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for SM5540C

Sample 119461-001A-MSD, Matrix Spike Duplicate (MSD) is outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 26-Aug-11

CLIENT: AMEC E&I
Lab Order: 119461
Project: MTA Westside Extention, 4953101561/6.2.3.3
Lab ID: 119461-001A

Client Sample ID: P-103 Aug 2011/UCLA Lot 36
Collection Date: 8/19/2011 8:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual Units	DF	Date Analyzed
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SURFACTANTS

SM5540C

RunID: WETCHEM3_110819C	QC Batch: 75067			PrepDate: 8/19/2011	Analyst: AAG	
MBAS	0.11	0.026	0.050	mg/L	1	8/19/2011

PH

SM4500-H+B

RunID: PH4_110819A	QC Batch: R135952			PrepDate:	Analyst: FD	
pH	7.0	0.10	0.10	H pH Units	1	8/19/2011

TURBIDITY

EPA 180.1

RunID: TURB_110819A	QC Batch: R136052			PrepDate:	Analyst: MP	
Turbidity	2.7	0.10	0.10	NTU	1	8/19/2011

TOTAL AND FREE CHLORINE DPD COLORIMETRIC

SM 4500-CL G

RunID: SC_110819A	QC Batch: R136053			PrepDate:	Analyst: MP	
Chlorine, Total	ND	0.054	0.10	H mg/L	1	8/19/2011

TOTAL NON-FILTERABLE RESIDUE

SM2540D

RunID: WETCHEM_110822C	QC Batch: 75052			PrepDate: 8/22/2011	Analyst: PT	
Suspended Solids (Residue, Non-Filterable)	ND	10	10	mg/L	1	8/22/2011 08:00

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	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: 26-Aug-11

CLIENT: AMEC E&I
Lab Order: 119461
Project: MTA Westside Extention, 4953101561/6.2.3.3
Lab ID: 119461-001B

Client Sample ID: P-103 Aug 2011/UCLA Lot 36
Collection Date: 8/19/2011 8:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual Units	DF	Date Analyzed
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SETTLABLE MATTER

SM2540F

RunID: WETCHEM_110819A	QC Batch: 75024			PrepDate: 8/19/2011	Analyst: PT	
Settleable Matter	ND	0.099	0.099	ml/L	1	8/19/2011

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 26-Aug-11

CLIENT: AMEC E&I

Client Sample ID: P-103 Aug 2011/UCLA Lot 36

Lab Order: 119461

Collection Date: 8/19/2011 8:00:00 AM

Project: MTA Westside Extention, 4953101561/6.2.3.3

Matrix: GROUNDWATER

Lab ID: 119461-001C

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ICPMS METALS

RunID:	EPA 200.8			EPA 200.8			Analyst: SRB
	QC Batch:	75046		PrepDate:	8/22/2011		
Copper	1.3	0.058	1.0	µg/L	1	8/23/2011 12:33	
Lead	0.21	0.10	1.0	J µg/L	1	8/23/2011 12:33	
Selenium	6.9	0.26	0.50	µg/L	1	8/23/2011 12:33	
Zinc	7.9	2.5	10	J µg/L	1	8/23/2011 12:33	

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
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CLIENT: AMEC E&I
Work Order: 119461
Project: MTA Westside Extention, 4953101561/6.2.3.3.

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID: 119461-001ADUP	SampType: DUP	TestCode: 150.1_4500H+	Units: pH Units	Prep Date:	RunNo: 135952						
Client ID: P-103 Aug 2011/UCL	Batch ID: R135952	TestNo: SM4500-H+B	Analysis Date: 8/19/2011	SeqNo: 2227722							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.970	0.10						6.970	0	10	H

Qualifiers:

- | | | | | | |
|---|--|----|-------------------------------------|---|--|
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| J | Analyte detected below quantitation limits | 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 E&I

Work Order: 119461

Project: MTA Westside Extention, 4953101561/6.2.3.3.

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

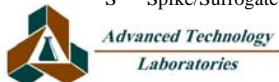
Sample ID: 119461-001A-DUP	SampType: DUP	TestCode: 160.2_2540D_	Units: mg/L	Prep Date: 8/22/2011	RunNo: 135977						
Client ID: P-103 Aug 2011/UCL	Batch ID: 75052	TestNo: SM2540D	Analysis Date: 8/22/2011	SeqNo: 2228189							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter)	ND	10						0	0	10	

Sample ID: LCS-75052	SampType: LCS	TestCode: 160.2_2540D_	Units: mg/L	Prep Date: 8/22/2011	RunNo: 135977						
Client ID: LCSW	Batch ID: 75052	TestNo: SM2540D	Analysis Date: 8/22/2011	SeqNo: 2228190							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter)	95.000	10	96.60	0	98.3	80	120				

Sample ID: MB-75052	SampType: MBLK	TestCode: 160.2_2540D_	Units: mg/L	Prep Date: 8/22/2011	RunNo: 135977						
Client ID: PBW	Batch ID: 75052	TestNo: SM2540D	Analysis Date: 8/22/2011	SeqNo: 2228191							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter)	ND	10									

Qualifiers:

- | | | | | | |
|---|--|----|-------------------------------------|---|--|
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| J | Analyte detected below quantitation limits | 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 E&I
Work Order: 119461
Project: MTA Westside Extention, 4953101561/6.2.3.3.

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.5_2540F_W

Sample ID: MB-75024	SampType: MBLK	TestCode: 160.5_2540F_	Units: ml/L	Prep Date: 8/19/2011	RunNo: 135938						
Client ID: PBW	Batch ID: 75024	TestNo: SM2540F		Analysis Date: 8/19/2011	SeqNo: 2227506						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Settleable Matter	ND	0.10									

Qualifiers:

- | | | | | | |
|---|--|----|-------------------------------------|---|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits |
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Project: MTA Westside Extention, 4953101561/6.2.3.3.

ANALYTICAL QC SUMMARY REPORT

TestCode: 180.1_W

Sample ID: MB-R136052	SampType: MBLK	TestCode: 180.1_W	Units: NTU	Prep Date:	RunNo: 136052						
Client ID: PBW	Batch ID: R136052	TestNo: EPA 180.1		Analysis Date: 8/19/2011	SeqNo: 2229349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

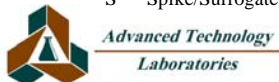
Turbidity	ND	0.10									
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Sample ID: 119461-001ADUP	SampType: DUP	TestCode: 180.1_W	Units: NTU	Prep Date:	RunNo: 136052						
Client ID: P-103 Aug 2011/UCL	Batch ID: R136052	TestNo: EPA 180.1		Analysis Date: 8/19/2011	SeqNo: 2229353						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Turbidity	2.580	0.10				2.690	4.17	10			
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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 |
| J Analyte detected below quantitation limits | 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 E&I

Work Order: 119461

Project: MTA Westside Extention, 4953101561/6.2.3.3.

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

Sample ID: MB-75046	SampType: MBLK	TestCode: 200.8_W	Units: µg/L	Prep Date: 8/22/2011	RunNo: 136009						
Client ID: PBW	Batch ID: 75046	TestNo: EPA 200.8	EPA 200.8	Analysis Date: 8/23/2011	SeqNo: 2228660						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	1.0									
Lead	ND	1.0									
Selenium	ND	0.50									
Zinc	2.760	10									J

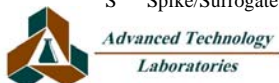
Sample ID: LCS-75046	SampType: LCS	TestCode: 200.8_W	Units: µg/L	Prep Date: 8/22/2011	RunNo: 136009						
Client ID: LCSW	Batch ID: 75046	TestNo: EPA 200.8	EPA 200.8	Analysis Date: 8/23/2011	SeqNo: 2228661						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.935	1.0	10.00	0	99.4	85	115				
Lead	9.735	1.0	10.00	0	97.4	85	115				
Selenium	10.259	0.50	10.00	0	103	85	115				
Zinc	96.535	10	100.0	2.760	93.8	85	115				

Sample ID: 119461-001C-MS	SampType: MS	TestCode: 200.8_W	Units: µg/L	Prep Date: 8/22/2011	RunNo: 136009						
Client ID: P-103 Aug 2011/UCL	Batch ID: 75046	TestNo: EPA 200.8	EPA 200.8	Analysis Date: 8/23/2011	SeqNo: 2228663						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.379	1.0	10.00	1.341	80.4	70	130				
Lead	9.166	1.0	10.00	0.2075	89.6	70	130				
Selenium	16.636	0.50	10.00	6.929	97.1	70	130				
Zinc	91.604	10	100.0	7.864	83.7	70	130				

Sample ID: 119461-001C-MSD	SampType: MSD	TestCode: 200.8_W	Units: µg/L	Prep Date: 8/22/2011	RunNo: 136009						
Client ID: P-103 Aug 2011/UCL	Batch ID: 75046	TestNo: EPA 200.8	EPA 200.8	Analysis Date: 8/23/2011	SeqNo: 2228664						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	9.265	1.0	10.00	1.341	79.2	70	130	9.379	1.22	20	
Lead	9.043	1.0	10.00	0.2075	88.4	70	130	9.166	1.36	20	

Qualifiers:

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



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CLIENT: AMEC E&I
Work Order: 119461
Project: MTA Westside Extention, 4953101561/6.2.3.3.

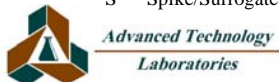
ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

Sample ID: 119461-001C-MSD		SampType: MSD		TestCode: 200.8_W		Units: µg/L		Prep Date: 8/22/2011		RunNo: 136009	
Client ID: P-103 Aug 2011/UCL		Batch ID: 75046		TestNo: EPA 200.8		EPA 200.8		Analysis Date: 8/23/2011		SeqNo: 2228664	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	16.526	0.50	10.00	6.929	96.0	70	130	16.64	0.663	20	
Zinc	93.385	10	100.0	7.864	85.5	70	130	91.60	1.93	20	

Qualifiers:

- | | | |
|--|--|--|
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CLIENT: AMEC E&I

Work Order: 119461

Project: MTA Westside Extention, 4953101561/6.2.3.3.

ANALYTICAL QC SUMMARY REPORT

TestCode: 425.1_5540C_W

Sample ID: 119461-001A-MS	SampType: MS	TestCode: 425.1_5540C_	Units: mg/L	Prep Date: 8/19/2011	RunNo: 135988						
Client ID: P-103 Aug 2011/UCL	Batch ID: 75067	TestNo: SM5540C	Analysis Date: 8/19/2011	SeqNo: 2228442							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

MBAS 0.527 0.050 0.5000 0.1110 83.2 80 120

Sample ID: 119461-001A-MSD	SampType: MSD	TestCode: 425.1_5540C_	Units: mg/L	Prep Date: 8/19/2011	RunNo: 135988						
Client ID: P-103 Aug 2011/UCL	Batch ID: 75067	TestNo: SM5540C	Analysis Date: 8/19/2011	SeqNo: 2228443							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

MBAS 0.510 0.050 0.5000 0.1110 79.8 80 120 0.5270 3.28 20 S

Sample ID: LCS-75067	SampType: LCS	TestCode: 425.1_5540C_	Units: mg/L	Prep Date: 8/19/2011	RunNo: 135988						
Client ID: LCSW	Batch ID: 75067	TestNo: SM5540C	Analysis Date: 8/19/2011	SeqNo: 2228444							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

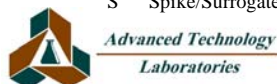
MBAS 0.523 0.050 0.5000 0 105 80 120

Sample ID: MB-75067	SampType: MBLK	TestCode: 425.1_5540C_	Units: mg/L	Prep Date: 8/19/2011	RunNo: 135988						
Client ID: PBW	Batch ID: 75067	TestNo: SM5540C	Analysis Date: 8/19/2011	SeqNo: 2228445							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

MBAS ND 0.050

Qualifiers:

- | | | |
|--|--|--|
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CLIENT: AMEC E&I

Work Order: 119461

Project: MTA Westside Extention, 4953101561/6.2.3.3.

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500_CL_G

Sample ID: MB-R136053	SampType: MBLK	TestCode: 4500_CL_G	Units: mg/L	Prep Date:	RunNo: 136053						
Client ID: PBW	Batch ID: R136053	TestNo: SM 4500-CI G		Analysis Date: 8/19/2011	SeqNo: 2229354						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chlorine, Total ND 0.10

Sample ID: LCS-R136053	SampType: LCS	TestCode: 4500_CL_G	Units: mg/L	Prep Date:	RunNo: 136053						
Client ID: LCSW	Batch ID: R136053	TestNo: SM 4500-CI G		Analysis Date: 8/19/2011	SeqNo: 2229355						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chlorine, Total 0.970 0.10 1.000 0 97.0 80 120

Sample ID: 119461-001AMS	SampType: MS	TestCode: 4500_CL_G	Units: mg/L	Prep Date:	RunNo: 136053						
Client ID: P-103 Aug 2011/UCL	Batch ID: R136053	TestNo: SM 4500-CI G		Analysis Date: 8/19/2011	SeqNo: 2229357						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

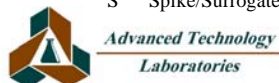
Chlorine, Total 0.950 0.10 1.000 0 95.0 80 120 H

Sample ID: 119461-001AMSD	SampType: MSD	TestCode: 4500_CL_G	Units: mg/L	Prep Date:	RunNo: 136053						
Client ID: P-103 Aug 2011/UCL	Batch ID: R136053	TestNo: SM 4500-CI G		Analysis Date: 8/19/2011	SeqNo: 2229358						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chlorine, Total 0.950 0.10 1.000 0 95.0 80 120 0.9500 0 20 H

Qualifiers:

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



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



**APPENDIX I
ENVIRONMENTAL SITE ASSESSMENT**

**FIGURES I-1.1 THROUGH I-1.1071
ANALYTICAL TEST RESULTS OF SOIL AND GROUNDWATER
SAMPLES (PE PHASE)**

June 29, 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.: 118577

RE: METRO WESTSIDE EXTENSION, 4953-10-1

Attention: Matt Fraychineaud

Enclosed are the results for sample(s) received on June 22, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

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

Eddie F. Rodriguez
Laboratory Director

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



CLIENT: Mactec
Project: METRO WESTSIDE EXTENSION, 4953-10-1
Lab Order: 118577

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: 06-Jul-11

CLIENT:	Mactec	Client Sample ID:	E-101-45
Lab Order:	118577	Collection Date:	6/21/2011 11:15:00 AM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	118577-001A		

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

EPA 8260B

RunID: MS5_110624A	QC Batch: T11VS109	PrepDate: 6/22/2011	Analyst: BD		
1,1,1,2-Tetrachloroethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,1,1-Trichloroethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,1,2,2-Tetrachloroethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,1,2-Trichloroethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,1-Dichloroethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,1-Dichloroethene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,1-Dichloropropene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,2,3-Trichlorobenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,2,3-Trichloropropane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,2,4-Trichlorobenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,2,4-Trimethylbenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,2-Dibromo-3-chloropropane	ND	7.8	µg/Kg	1	6/24/2011 04:16 PM
1,2-Dibromoethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,2-Dichlorobenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,2-Dichloroethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,2-Dichloropropane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,3,5-Trimethylbenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,3-Dichlorobenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,3-Dichloropropane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
1,4-Dichlorobenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
2,2-Dichloropropane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
2-Chlorotoluene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
4-Chlorotoluene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
4-Isopropyltoluene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Benzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Bromobenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Bromodichloromethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Bromoform	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Bromomethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Carbon tetrachloride	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Chlorobenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Chloroethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Chloroform	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Chloromethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
cis-1,2-Dichloroethene	ND	3.9	µg/Kg	1	6/24/2011 04:16 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	



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ANALYTICAL RESULTS

Print Date: 06-Jul-11

CLIENT:	Mactec	Client Sample ID:	E-101-45
Lab Order:	118577	Collection Date:	6/21/2011 11:15:00 AM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	118577-001A		

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

EPA 8260B

RunID: MS5_110624A	QC Batch: T11VS109	PrepDate: 6/22/2011	Analyst: BD		
cis-1,3-Dichloropropene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Di-isopropyl ether	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Dibromochloromethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Dibromomethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Dichlorodifluoromethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Ethyl Tert-butyl ether	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Ethylbenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Hexachlorobutadiene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Isopropylbenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
m,p-Xylene	ND	7.8	µg/Kg	1	6/24/2011 04:16 PM
Methylene chloride	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
MTBE	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
n-Butylbenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
n-Propylbenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Naphthalene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
o-Xylene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
sec-Butylbenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Styrene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Tert-amyl methyl ether	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Tert-Butanol	ND	78	µg/Kg	1	6/24/2011 04:16 PM
tert-Butylbenzene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Tetrachloroethene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Toluene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
trans-1,2-Dichloroethene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Trichloroethene	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Trichlorofluoromethane	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Vinyl chloride	ND	3.9	µg/Kg	1	6/24/2011 04:16 PM
Surr: 1,2-Dichloroethane-d4	98.0	65-141	%REC	1	6/24/2011 04:16 PM
Surr: 4-Bromofluorobenzene	89.5	57-134	%REC	1	6/24/2011 04:16 PM
Surr: Dibromofluoromethane	89.3	70-128	%REC	1	6/24/2011 04:16 PM
Surr: Toluene-d8	88.0	72-123	%REC	1	6/24/2011 04:16 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	



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ANALYTICAL RESULTS

Print Date: 06-Jul-11

CLIENT:	Mactec	Client Sample ID:	E-101-50
Lab Order:	118577	Collection Date:	6/21/2011 11:30:00 AM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	118577-002A		

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

EPA 8260B

RunID: MS5_110624A	QC Batch: T11VS109	PrepDate: 6/22/2011	Analyst: BD
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Compound	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,1,1-Trichloroethane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,1,2,2-Tetrachloroethane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,1,2-Trichloroethane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,1-Dichloroethane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,1-Dichloroethene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,1-Dichloropropene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,2,3-Trichlorobenzene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,2,3-Trichloropropane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,2,4-Trichlorobenzene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,2,4-Trimethylbenzene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,2-Dibromo-3-chloropropane	ND	7.3		µg/Kg	1	6/24/2011 04:35 PM
1,2-Dibromoethane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,2-Dichlorobenzene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,2-Dichloroethane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,2-Dichloropropane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,3,5-Trimethylbenzene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,3-Dichlorobenzene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,3-Dichloropropane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
1,4-Dichlorobenzene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
2,2-Dichloropropane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
2-Chlorotoluene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
4-Chlorotoluene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
4-Isopropyltoluene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
Benzene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
Bromobenzene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
Bromodichloromethane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
Bromoform	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
Bromomethane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
Carbon tetrachloride	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
Chlorobenzene	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
Chloroethane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
Chloroform	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
Chloromethane	ND	3.6		µg/Kg	1	6/24/2011 04:35 PM
cis-1,2-Dichloroethene	ND	3.6		µg/Kg	1	6/24/2011 04:35 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: 06-Jul-11

CLIENT:	Mactec	Client Sample ID:	E-101-50
Lab Order:	118577	Collection Date:	6/21/2011 11:30:00 AM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	118577-002A		

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

EPA 8260B

RunID: MS5_110624A	QC Batch: T11VS109	PrepDate: 6/22/2011	Analyst: BD		
cis-1,3-Dichloropropene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Di-isopropyl ether	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Dibromochloromethane	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Dibromomethane	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Dichlorodifluoromethane	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Ethyl Tert-butyl ether	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Ethylbenzene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Hexachlorobutadiene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Isopropylbenzene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
m,p-Xylene	ND	7.3	µg/Kg	1	6/24/2011 04:35 PM
Methylene chloride	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
MTBE	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
n-Butylbenzene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
n-Propylbenzene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Naphthalene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
o-Xylene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
sec-Butylbenzene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Styrene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Tert-amyl methyl ether	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Tert-Butanol	ND	73	µg/Kg	1	6/24/2011 04:35 PM
tert-Butylbenzene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Tetrachloroethene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Toluene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
trans-1,2-Dichloroethene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Trichloroethene	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Trichlorofluoromethane	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Vinyl chloride	ND	3.6	µg/Kg	1	6/24/2011 04:35 PM
Surr: 1,2-Dichloroethane-d4	99.4	65-141	%REC	1	6/24/2011 04:35 PM
Surr: 4-Bromofluorobenzene	87.8	57-134	%REC	1	6/24/2011 04:35 PM
Surr: Dibromofluoromethane	101	70-128	%REC	1	6/24/2011 04:35 PM
Surr: Toluene-d8	89.1	72-123	%REC	1	6/24/2011 04:35 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: 06-Jul-11

CLIENT:	Mactec	Client Sample ID:	E-101-55
Lab Order:	118577	Collection Date:	6/21/2011 11:50:00 AM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	SOIL
Lab ID:	118577-003A		

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

EPA 8260B

RunID: MS5_110624A	QC Batch: T11VS109	PrepDate: 6/22/2011	Analyst: BD		
1,1,1,2-Tetrachloroethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,1,1-Trichloroethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,1,2,2-Tetrachloroethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,1,2-Trichloroethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,1-Dichloroethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,1-Dichloroethene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,1-Dichloropropene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,2,3-Trichlorobenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,2,3-Trichloropropane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,2,4-Trichlorobenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,2,4-Trimethylbenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,2-Dibromo-3-chloropropane	ND	7.2	µg/Kg	1	6/24/2011 04:53 PM
1,2-Dibromoethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,2-Dichlorobenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,2-Dichloroethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,2-Dichloropropane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,3,5-Trimethylbenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,3-Dichlorobenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,3-Dichloropropane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
1,4-Dichlorobenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
2,2-Dichloropropane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
2-Chlorotoluene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
4-Chlorotoluene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
4-Isopropyltoluene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Benzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Bromobenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Bromodichloromethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Bromoform	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Bromomethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Carbon tetrachloride	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Chlorobenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Chloroethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Chloroform	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Chloromethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
cis-1,2-Dichloroethene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM

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



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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 06-Jul-11

CLIENT: Mactec	Client Sample ID: E-101-55
Lab Order: 118577	Collection Date: 6/21/2011 11:50:00 AM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: SOIL
Lab ID: 118577-003A	

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

EPA 8260B

RunID: MS5_110624A	QC Batch: T11VS109	PrepDate: 6/22/2011	Analyst: BD		
cis-1,3-Dichloropropene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Di-isopropyl ether	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Dibromochloromethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Dibromomethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Dichlorodifluoromethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Ethyl Tert-butyl ether	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Ethylbenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Hexachlorobutadiene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Isopropylbenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
m,p-Xylene	ND	7.2	µg/Kg	1	6/24/2011 04:53 PM
Methylene chloride	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
MTBE	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
n-Butylbenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
n-Propylbenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Naphthalene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
o-Xylene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
sec-Butylbenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Styrene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Tert-amyl methyl ether	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Tert-Butanol	89	72	µg/Kg	1	6/24/2011 04:53 PM
tert-Butylbenzene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Tetrachloroethene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Toluene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
trans-1,2-Dichloroethene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Trichloroethene	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Trichlorofluoromethane	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Vinyl chloride	ND	3.6	µg/Kg	1	6/24/2011 04:53 PM
Surr: 1,2-Dichloroethane-d4	99.2	65-141	%REC	1	6/24/2011 04:53 PM
Surr: 4-Bromofluorobenzene	87.8	57-134	%REC	1	6/24/2011 04:53 PM
Surr: Dibromofluoromethane	96.1	70-128	%REC	1	6/24/2011 04:53 PM
Surr: Toluene-d8	87.0	72-123	%REC	1	6/24/2011 04:53 PM

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



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ANALYTICAL RESULTS

Print Date: 06-Jul-11

CLIENT:	Mactec	Client Sample ID:	E-101-40-45
Lab Order:	118577	Collection Date:	6/21/2011 12:50:00 PM
Project:	METRO WESTSIDE EXTENSION, 4953-10	Matrix:	GROUNDWATER
Lab ID:	118577-004A		

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

EPA 8260B

RunID: MS2_110624A	QC Batch: Q11VW116	PrepDate:	Analyst: SLL		
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,1,1-Trichloroethane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,1,2-Trichloroethane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,1-Dichloroethane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,1-Dichloroethene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,1-Dichloropropene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,2,3-Trichloropropane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,2-Dibromo-3-chloropropane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,2-Dibromoethane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,2-Dichlorobenzene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,2-Dichloroethane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,2-Dichloropropane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,3-Dichlorobenzene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,3-Dichloropropane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
1,4-Dichlorobenzene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
2,2-Dichloropropane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
2-Chlorotoluene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
4-Chlorotoluene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
4-Isopropyltoluene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
Benzene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
Bromobenzene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
Bromodichloromethane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
Bromoform	ND	0.50	µg/L	1	6/24/2011 08:50 PM
Bromomethane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
Carbon tetrachloride	ND	0.50	µg/L	1	6/24/2011 08:50 PM
Chlorobenzene	ND	0.50	µg/L	1	6/24/2011 08:50 PM
Chloroethane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
Chloroform	ND	0.50	µg/L	1	6/24/2011 08:50 PM
Chloromethane	ND	0.50	µg/L	1	6/24/2011 08:50 PM
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	6/24/2011 08:50 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: 06-Jul-11

CLIENT: Mactec	Client Sample ID: E-101-40-45
Lab Order: 118577	Collection Date: 6/21/2011 12:50:00 PM
Project: METRO WESTSIDE EXTENSION, 4953-10	Matrix: GROUNDWATER
Lab ID: 118577-004A	

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

EPA 8260B

RunID: MS2_110624A	QC Batch: Q11VW116	PrepDate:	Analyst: SLL
cis-1,3-Dichloropropene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
Dibromochloromethane	ND	0.50	µg/L 1 6/24/2011 08:50 PM
Dibromomethane	ND	0.50	µg/L 1 6/24/2011 08:50 PM
Dichlorodifluoromethane	ND	0.50	µg/L 1 6/24/2011 08:50 PM
Ethylbenzene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
Hexachlorobutadiene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
Isopropylbenzene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
m,p-Xylene	ND	1.0	µg/L 1 6/24/2011 08:50 PM
Methylene chloride	ND	1.0	µg/L 1 6/24/2011 08:50 PM
n-Butylbenzene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
n-Propylbenzene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
Naphthalene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
o-Xylene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
sec-Butylbenzene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
Styrene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
tert-Butylbenzene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
Tetrachloroethene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
Toluene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
trans-1,2-Dichloroethene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
Trichloroethene	ND	0.50	µg/L 1 6/24/2011 08:50 PM
Trichlorofluoromethane	ND	0.50	µg/L 1 6/24/2011 08:50 PM
Vinyl chloride	ND	0.50	µg/L 1 6/24/2011 08:50 PM
Surr: 1,2-Dichloroethane-d4	93.0	70-130	%REC 1 6/24/2011 08:50 PM
Surr: 4-Bromofluorobenzene	90.2	70-130	%REC 1 6/24/2011 08:50 PM
Surr: Dibromofluoromethane	94.2	70-130	%REC 1 6/24/2011 08:50 PM
Surr: Toluene-d8	89.7	70-130	%REC 1 6/24/2011 08:50 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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CLIENT: Mactec
Work Order: 118577
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

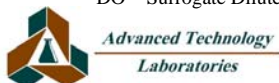
TestCode: 8260_S_5035

Sample ID: T110624LCS1	SampType: LCS	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	RunNo: 134388						
Client ID: LCSS	Batch ID: T11VS109	TestNo: EPA 8260B		Analysis Date: 6/24/2011	SeqNo: 2196672						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	43.350	5.0	50.00	0	86.7	70	130				
Benzene	88.700	5.0	100.0	0	88.7	70	130				
Chlorobenzene	48.510	5.0	50.00	0	97.0	70	130				
MTBE	44.080	5.0	50.00	0	88.2	70	130				
Toluene	93.300	5.0	100.0	0	93.3	70	130				
Trichloroethene	48.620	5.0	50.00	0	97.2	70	130				
Surr: 1,2-Dichloroethane-d4	39.000		50.00		78.0	65	141				
Surr: 4-Bromofluorobenzene	41.310		50.00		82.6	57	134				
Surr: Dibromofluoromethane	44.000		50.00		88.0	70	128				
Surr: Toluene-d8	43.430		50.00		86.9	72	123				

Sample ID: T110624MB1MS	SampType: MS	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	RunNo: 134388						
Client ID: ZZZZZZ	Batch ID: T11VS109	TestNo: EPA 8260B		Analysis Date: 6/24/2011	SeqNo: 2196673						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	42.660	5.0	50.00	0	85.3	70	130				
Benzene	91.380	5.0	100.0	0	91.4	70	130				
Chlorobenzene	49.980	5.0	50.00	0	100	70	130				
MTBE	45.810	5.0	50.00	0	91.6	70	130				
Toluene	94.460	5.0	100.0	0	94.5	70	130				
Trichloroethene	48.550	5.0	50.00	0	97.1	70	130				
Surr: 1,2-Dichloroethane-d4	40.740		50.00		81.5	65	141				
Surr: 4-Bromofluorobenzene	40.570		50.00		81.1	57	134				
Surr: Dibromofluoromethane	42.560		50.00		85.1	70	128				
Surr: Toluene-d8	42.910		50.00		85.8	72	123				

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: 118577
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

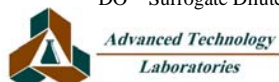
TestCode: 8260_S_5035

Sample ID: T110624MB1MSD		SampType: MSD		TestCode: 8260_S_5035		Units: µg/Kg		Prep Date:		RunNo: 134388	
Client ID: ZZZZZZ		Batch ID: T11VS109		TestNo: EPA 8260B		Analysis Date: 6/24/2011				SeqNo: 2196674	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	43.040	5.0	50.00	0	86.1	70	130	42.66	0.887	20	
Benzene	91.060	5.0	100.0	0	91.1	70	130	91.38	0.351	20	
Chlorobenzene	51.890	5.0	50.00	0	104	70	130	49.98	3.75	20	
MTBE	47.500	5.0	50.00	0	95.0	70	130	45.81	3.62	20	
Toluene	94.710	5.0	100.0	0	94.7	70	130	94.46	0.264	20	
Trichloroethene	48.650	5.0	50.00	0	97.3	70	130	48.55	0.206	20	
Surr: 1,2-Dichloroethane-d4	41.680		50.00		83.4	65	141		0	0	
Surr: 4-Bromofluorobenzene	46.330		50.00		92.7	57	134		0	0	
Surr: Dibromofluoromethane	43.590		50.00		87.2	70	128		0	0	
Surr: Toluene-d8	44.980		50.00		90.0	72	123		0	0	

Sample ID: T110624MB1		SampType: MBLK		TestCode: 8260_S_5035		Units: µg/Kg		Prep Date:		RunNo: 134388	
Client ID: PBS		Batch ID: T11VS109		TestNo: EPA 8260B		Analysis Date: 6/24/2011				SeqNo: 2196675	
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: 118577
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

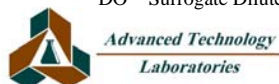
TestCode: 8260_S_5035

Sample ID: T110624MB1	SampType: MBLK	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	RunNo: 134388
Client ID: PBS	Batch ID: T11VS109	TestNo: EPA 8260B		Analysis Date: 6/24/2011	SeqNo: 2196675

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Di-isopropyl ether	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethyl Tert-butyl ether	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									

Qualifiers:

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



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CLIENT: Mactec
Work Order: 118577
Project: METRO WESTSIDE EXTENSION, 4953-10-1

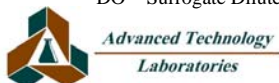
ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID: T110624MB1	SampType: MBLK	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	RunNo: 134388						
Client ID: PBS	Batch ID: T11VS109	TestNo: EPA 8260B		Analysis Date: 6/24/2011	SeqNo: 2196675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
Tert-amyl methyl ether	ND	5.0									
Tert-Butanol	ND	100									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	42.770		50.00		85.5	65	141				
Surr: 4-Bromofluorobenzene	43.090		50.00		86.2	57	134				
Surr: Dibromofluoromethane	44.160		50.00		88.3	70	128				
Surr: Toluene-d8	45.380		50.00		90.8	72	123				

Qualifiers:

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



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CLIENT: Mactec
Work Order: 118577
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

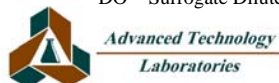
Sample ID: Q110624LCS1		SampType: LCS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 134423	
Client ID: LCSW		Batch ID: Q11VW116		TestNo: EPA 8260B		Analysis Date: 6/24/2011				SeqNo: 2198138	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.950	0.50	20.00	0	89.8	70	130				
Benzene	37.320	0.50	40.00	0	93.3	70	130				
Chlorobenzene	19.710	0.50	20.00	0	98.6	70	130				
MTBE	18.470	0.50	20.00	0	92.4	70	130				
Toluene	39.720	0.50	40.00	0	99.3	70	130				
Trichloroethene	19.250	0.50	20.00	0	96.2	70	130				
Surr: 1,2-Dichloroethane-d4	19.850		25.00		79.4	70	130				
Surr: 4-Bromofluorobenzene	22.960		25.00		91.8	70	130				
Surr: Dibromofluoromethane	20.660		25.00		82.6	70	130				
Surr: Toluene-d8	22.970		25.00		91.9	70	130				

Sample ID: Q110624MB3MS		SampType: MS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 134423	
Client ID: ZZZZZ		Batch ID: Q11VW116		TestNo: EPA 8260B		Analysis Date: 6/24/2011				SeqNo: 2198139	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.510	0.50	20.00	0	82.6	70	130				
Benzene	36.700	0.50	40.00	0	91.8	70	130				
Chlorobenzene	19.810	0.50	20.00	0	99.0	70	130				
MTBE	18.540	0.50	20.00	0	92.7	70	130				
Toluene	38.260	0.50	40.00	0	95.7	70	130				
Trichloroethene	18.470	0.50	20.00	0	92.4	70	130				
Surr: 1,2-Dichloroethane-d4	19.890		25.00		79.6	70	130				
Surr: 4-Bromofluorobenzene	22.700		25.00		90.8	70	130				
Surr: Dibromofluoromethane	20.670		25.00		82.7	70	130				
Surr: Toluene-d8	22.470		25.00		89.9	70	130				

Sample ID: Q110624MB3MSD		SampType: MSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 134423	
Client ID: ZZZZZ		Batch ID: Q11VW116		TestNo: EPA 8260B		Analysis Date: 6/24/2011				SeqNo: 2198140	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

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| B Analyte detected in 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: 118577
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

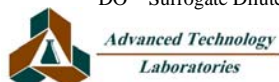
TestCode: 8260_WP_LL

Sample ID: Q110624MB3MSD		SampType: MSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 134423	
Client ID: ZZZZZZ		Batch ID: Q11VW116		TestNo: EPA 8260B		Analysis Date: 6/24/2011				SeqNo: 2198140	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.950	0.50	20.00	0	79.8	70	130	16.51	3.45	20	
Benzene	37.230	0.50	40.00	0	93.1	70	130	36.70	1.43	20	
Chlorobenzene	20.380	0.50	20.00	0	102	70	130	19.81	2.84	20	
MTBE	17.660	0.50	20.00	0	88.3	70	130	18.54	4.86	20	
Toluene	39.290	0.50	40.00	0	98.2	70	130	38.26	2.66	20	
Trichloroethene	18.540	0.50	20.00	0	92.7	70	130	18.47	0.378	20	
Surr: 1,2-Dichloroethane-d4	19.610		25.00		78.4	70	130		0	0	
Surr: 4-Bromofluorobenzene	23.220		25.00		92.9	70	130		0	0	
Surr: Dibromofluoromethane	20.660		25.00		82.6	70	130		0	0	
Surr: Toluene-d8	23.140		25.00		92.6	70	130		0	0	

Sample ID: Q110624MB3		SampType: MBLK		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 134423	
Client ID: PBW		Batch ID: Q11VW116		TestNo: EPA 8260B		Analysis Date: 6/24/2011				SeqNo: 2198141	
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:

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CLIENT: Mactec
Work Order: 118577
Project: METRO WESTSIDE EXTENSION, 4953-10-1

ANALYTICAL QC SUMMARY REPORT

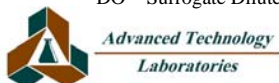
TestCode: 8260_WP_LL

Sample ID: Q110624MB3	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 134423
Client ID: PBW	Batch ID: Q11VW116	TestNo: EPA 8260B		Analysis Date: 6/24/2011	SeqNo: 2198141

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:

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

CLIENT: Mactec
Work Order: 118577
Project: METRO WESTSIDE EXTENSION, 4953-10-1

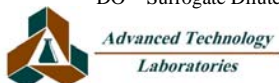
ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: Q110624MB3	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 134423						
Client ID: PBW	Batch ID: Q11VW116	TestNo: EPA 8260B		Analysis Date: 6/24/2011	SeqNo: 2198141						
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	23.480		25.00		93.9	70	130				
Surr: 4-Bromofluorobenzene	23.770		25.00		95.1	70	130				
Surr: Dibromofluoromethane	23.300		25.00		93.2	70	130				
Surr: Toluene-d8	23.070		25.00		92.3	70	130				

Qualifiers:

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