

Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 05-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:00:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-001J	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: IC3_110624A	QC Batch: R134409	PrepDate:	Analyst: PT
Chloride	89	10	mg/L
		20	6/24/2011 11:28 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: IC3_110624A	QC Batch: R134409	PrepDate:	Analyst: PT
Nitrogen, Nitrate (As N)	ND	0.10	mg/L
		1	6/24/2011 10:16 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: IC3_110624A	QC Batch: R134409	PrepDate:	Analyst: PT
Sulfate	250	20	mg/L
		20	6/24/2011 11:28 AM

PH

SM4500-H+B

RunID: PH4_110623A	QC Batch: R134404	PrepDate:	Analyst: FD
pH	7.2	0.10	H pH Units
		1	6/23/2011

TOTAL FILTERABLE RESIDUE

SM2540C

RunID: WETCHEM_110628D	QC Batch: 74008	PrepDate: 6/28/2011	Analyst: PT
Total Dissolved Solids (Residue, Filterable)	1200	11	mg/L
		1	6/28/2011

TOTAL NON-FILTERABLE RESIDUE

SM2540D

RunID: WETCHEM_110628A	QC Batch: 73931	PrepDate: 6/28/2011	Analyst: PT
Suspended Solids (Residue, Non-Filterable)	190	10	mg/L
		1	6/28/2011 08:12 AM

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



Advanced Technology
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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-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116A
Lab Order: 118601	Collection Date: 6/23/2011 12:15:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-002A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED GASES IN WATER

RSK175

RunID: GC18_110628A	QC Batch: Z11A030	PrepDate:	Analyst: BB		
Carbon dioxide	1300	200	ug/L	1	6/28/2011 03:01 PM
Ethane	ND	2.0	ug/L	1	6/28/2011 03:01 PM
Ethylene	ND	3.0	ug/L	1	6/28/2011 03:01 PM
Methane	3.7	1.0	ug/L	1	6/28/2011 03:01 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
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	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-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116A
Lab Order: 118601	Collection Date: 6/23/2011 12:15:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-002B	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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SULFIDE, TOTAL

SM4500-S= D

RunID: WETCHEM3_110629A	QC Batch: R134500	PrepDate:	Analyst: AAG
Sulfide	0.049	0.010	mg/L
			1
			6/29/2011

Qualifiers:	B Analyte detected in 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-Jul-11

CLIENT: MACTEC	Client Sample ID: M-116-B
Lab Order: 118601	Collection Date: 6/23/2011 12:30:00 PM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-003A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED GASES IN WATER

RSK175

RunID: GC18_110628A	QC Batch: Z11A030	PrepDate:	Analyst: BB
Carbon dioxide	12000	2000	ug/L 10 6/28/2011 03:43 PM
Ethane	ND	2.0	ug/L 1 6/28/2011 03:30 PM
Ethylene	ND	3.0	ug/L 1 6/28/2011 03:30 PM
Methane	8.7	1.0	ug/L 1 6/28/2011 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: 05-Jul-11

CLIENT:	MACTEC	Client Sample ID:	M-116-B
Lab Order:	118601	Collection Date:	6/23/2011 12:30:00 PM
Project:	MTA WESTSIDE EXTENSION, 495310156	Matrix:	GROUNDWATER
Lab ID:	118601-003B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SULFIDE, TOTAL						
						SM4500-S= D
RunID: WETCHEM3_110629A	QC Batch: R134500				PrepDate:	Analyst: AAG
Sulfide	0.011	0.010		mg/L	1	6/29/2011

Qualifiers:	B Analyte detected in 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-Jul-11

CLIENT: MACTEC	Client Sample ID: M-115-A
Lab Order: 118601	Collection Date: 6/23/2011 9:45:00 AM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-004A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED GASES IN WATER

RSK175

RunID: GC18_110628A	QC Batch: Z11A030	PrepDate:	Analyst: BB
Carbon dioxide	14000	10000	ug/L 50 6/28/2011 04:09 PM
Ethane	150	2.0	ug/L 1 6/28/2011 03:55 PM
Ethylene	ND	3.0	ug/L 1 6/28/2011 03:55 PM
Methane	4500	50	ug/L 50 6/28/2011 04:09 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-Jul-11

CLIENT: MACTEC	Client Sample ID: M-115-A
Lab Order: 118601	Collection Date: 6/23/2011 9:45:00 AM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-004B	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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SULFIDE, TOTAL

SM4500-S= D

RunID: WETCHEM3_110629A	QC Batch: R134500	PrepDate:	Analyst: AAG		
Sulfide	4.0	0.20	mg/L	20	6/29/2011

Qualifiers:	B Analyte detected in 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-Jul-11

CLIENT: MACTEC	Client Sample ID: M-115-B
Lab Order: 118601	Collection Date: 6/23/2011 10:10:00 AM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: GROUNDWATER
Lab ID: 118601-005A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED GASES IN WATER

RSK175

RunID: GC18_110628A	QC Batch: Z11A030			PrepDate:		Analyst: BB
Carbon dioxide	8000	4000		ug/L	20	6/28/2011 04:37 PM
Ethane	58	2.0		ug/L	1	6/28/2011 04:24 PM
Ethylene	ND	3.0		ug/L	1	6/28/2011 04:24 PM
Methane	4200	20		ug/L	20	6/28/2011 04:37 PM

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



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Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: 05-Jul-11

CLIENT:	MACTEC	Client Sample ID:	M-115-B
Lab Order:	118601	Collection Date:	6/23/2011 10:10:00 AM
Project:	MTA WESTSIDE EXTENSION, 495310156	Matrix:	GROUNDWATER
Lab ID:	118601-005B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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SULFIDE, TOTAL

SM4500-S= D

RunID: WETCHEM3_110629A	QC Batch: R134500	PrepDate:	Analyst: AAG	
Sulfide	16	0.80 mg/L	80	6/29/2011

Qualifiers:	B Analyte detected in 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-Jul-11

CLIENT: MACTEC	Client Sample ID: M-119-RED 15'
Lab Order: 118601	Collection Date: 6/23/2011 11:30:00 AM
Project: MTA WESTSIDE EXTENSION, 495310156	Matrix: VAPOR
Lab ID: 118601-006A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASES BY GAS CHROMATOGRAPHY

ASTM D1946

RunID: GC18_110624A	QC Batch: Z11A029	PrepDate:	Analyst: BB	
Methane	13	10 ppmv	1	6/24/2011 02:25 PM

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



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

CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID: 118595-003B	SampType: DUP	TestCode: 150.1_4500H+	Units: pH Units	Prep Date:	RunNo: 134404						
Client ID: ZZZZZZ	Batch ID: R134404	TestNo: SM4500-H+B	Analysis Date: 6/23/2011	SeqNo: 2196898							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.000	0.10						8.000	0	10	H

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: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

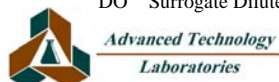
Sample ID: 118646-001A-DUP	SampType: DUP	TestCode: 160.1_2540C_	Units: mg/L	Prep Date: 6/28/2011	RunNo: 134574						
Client ID: ZZZZZZ	Batch ID: 74008	TestNo: SM2540C	Analysis Date: 6/28/2011	SeqNo: 2200333							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	40966.667	330						40870	0.244	10	

Sample ID: LCS-74008	SampType: LCS	TestCode: 160.1_2540C_	Units: mg/L	Prep Date: 6/28/2011	RunNo: 134574						
Client ID: LCSW	Batch ID: 74008	TestNo: SM2540C	Analysis Date: 6/28/2011	SeqNo: 2200334							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	987.000	10	970.0	0	102	80	120				

Sample ID: MB-74008	SampType: MBLK	TestCode: 160.1_2540C_	Units: mg/L	Prep Date: 6/28/2011	RunNo: 134574						
Client ID: PBW	Batch ID: 74008	TestNo: SM2540C	Analysis Date: 6/28/2011	SeqNo: 2200336							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Qualifiers:

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



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

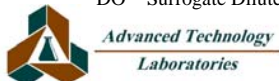
Sample ID: 118625-001B-DUP	SampType: DUP	TestCode: 160.2_2540D_	Units: mg/L	Prep Date: 6/28/2011	RunNo: 134472						
Client ID: ZZZZZZ	Batch ID: 73931	TestNo: SM2540D	Analysis Date: 6/28/2011	SeqNo: 2198521							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter)	ND	10						0	0	10	

Sample ID: LCS-73931	SampType: LCS	TestCode: 160.2_2540D_	Units: mg/L	Prep Date: 6/28/2011	RunNo: 134472						
Client ID: LCSW	Batch ID: 73931	TestNo: SM2540D	Analysis Date: 6/28/2011	SeqNo: 2198523							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter)	96.000	10	96.60	0	99.4	80	120				

Sample ID: MB-73931	SampType: MBLK	TestCode: 160.2_2540D_	Units: mg/L	Prep Date: 6/28/2011	RunNo: 134472						
Client ID: PBW	Batch ID: 73931	TestNo: SM2540D	Analysis Date: 6/28/2011	SeqNo: 2198524							
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:

- | | | |
|---|--|--|
| B Analyte detected in 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: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_HEM_W

Sample ID: MB-73862	SampType: MBLK	TestCode: 1664_HEM_W	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134368						
Client ID: PBW	Batch ID: 73862	TestNo: EPA 1664_H		Analysis Date: 6/24/2011	SeqNo: 2196419						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	ND	4.0									
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Sample ID: LCS-73862	SampType: LCS	TestCode: 1664_HEM_W	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134368						
Client ID: LCSW	Batch ID: 73862	TestNo: EPA 1664_H		Analysis Date: 6/24/2011	SeqNo: 2196420						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	35.700	4.0	40.00	0	89.2	78	114				
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Sample ID: MB-73862-MS	SampType: MS	TestCode: 1664_HEM_W	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134368						
Client ID: ZZZZZ	Batch ID: 73862	TestNo: EPA 1664_H		Analysis Date: 6/24/2011	SeqNo: 2196423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

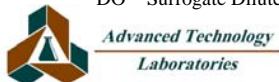
Oil & Grease	36.700	4.0	40.00	0	91.8	78	114				
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Sample ID: MB-73862-MSD	SampType: MSD	TestCode: 1664_HEM_W	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134368						
Client ID: ZZZZZ	Batch ID: 73862	TestNo: EPA 1664_H		Analysis Date: 6/24/2011	SeqNo: 2196424						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Oil & Grease	36.800	4.0	40.00	0	92.0	78	114	36.70	0.272	20	
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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: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_SGT/HEM_W

Sample ID: LCS-R134419	SampType: LCS	TestCode: 1664_SGT/HE	Units: mg/L	Prep Date: 6/27/2011	RunNo: 134419						
Client ID: LCSW	Batch ID: 73893	TestNo: EPA 1664_SG	Analysis Date: 6/27/2011	SeqNo: 2197335							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Petroleum Hydrocarbons	19.400	2.0	20.00	0	97.0	78	114				
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Sample ID: MB-R134419	SampType: MBLK	TestCode: 1664_SGT/HE	Units: mg/L	Prep Date: 6/27/2011	RunNo: 134419						
Client ID: PBW	Batch ID: 73893	TestNo: EPA 1664_SG	Analysis Date: 6/27/2011	SeqNo: 2197336							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Petroleum Hydrocarbons	ND	2.0									
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Sample ID: MBLK-R134419MS	SampType: MS	TestCode: 1664_SGT/HE	Units: mg/L	Prep Date: 6/27/2011	RunNo: 134419						
Client ID: ZZZZZ	Batch ID: 73893	TestNo: EPA 1664_SG	Analysis Date: 6/27/2011	SeqNo: 2197337							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

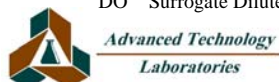
Total Petroleum Hydrocarbons	18.000	2.0	20.00	0	90.0	78	114				
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Sample ID: MBLK-R134419MSD	SampType: MSD	TestCode: 1664_SGT/HE	Units: mg/L	Prep Date: 6/27/2011	RunNo: 134419						
Client ID: ZZZZZ	Batch ID: 73893	TestNo: EPA 1664_SG	Analysis Date: 6/27/2011	SeqNo: 2197338							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Petroleum Hydrocarbons	18.500	2.0	20.00	0	92.5	78	114	18.00	2.74	20	
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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: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CL

Sample ID: MB-R134409	SampType: MBLK	TestCode: 300_W_CL	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: PBW	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197077						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	ND	0.50									
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Sample ID: LCS-R134409	SampType: LCS	TestCode: 300_W_CL	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: LCSW	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197078						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	0.981	0.50	1.000	0	98.1	90	110				
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Sample ID: 118601-001J-DUP	SampType: DUP	TestCode: 300_W_CL	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197080						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	89.576	10						89.44	0.150	20	
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Sample ID: 118601-001J-MS	SampType: MS	TestCode: 300_W_CL	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197081						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

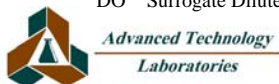
Chloride	138.418	10	50.00	89.44	98.0	80	120				
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Sample ID: 118601-001J-MSD	SampType: MSD	TestCode: 300_W_CL	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197082						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	139.722	10	50.00	89.44	101	80	120	138.4	0.938	20	
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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: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_NO3

Sample ID: MB-R134409	SampType: MBLK	TestCode: 300_W_NO3	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: PBW	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197086						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate (As N)	ND	0.10									
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Sample ID: LCS-R134409	SampType: LCS	TestCode: 300_W_NO3	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: LCSW	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197087						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate (As N)	0.935	0.10	1.000	0	93.5	90	110				
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Sample ID: 118601-001J-DUP	SampType: DUP	TestCode: 300_W_NO3	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197093						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate (As N)	ND	2.0						0	0	20	
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Sample ID: 118601-001J-MS	SampType: MS	TestCode: 300_W_NO3	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197094						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

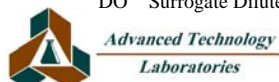
Nitrogen, Nitrate (As N)	52.400	2.0	50.00	0	105	80	120				
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Sample ID: 118601-001J-MSD	SampType: MSD	TestCode: 300_W_NO3	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197095						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate (As N)	52.504	2.0	50.00	0	105	80	120	52.40	0.198	20	
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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: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4

Sample ID: MB-R134409	SampType: MBLK	TestCode: 300_W_SO4	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: PBW	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197100						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	1.0									
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Sample ID: LCS-R134409	SampType: LCS	TestCode: 300_W_SO4	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: LCSW	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197101						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	2.022	1.0	2.000	0	101	90	110				
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Sample ID: 118601-001J-DUP	SampType: DUP	TestCode: 300_W_SO4	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197103						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	241.366	20						246.6	2.15	20	
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Sample ID: 118601-001J-MS	SampType: MS	TestCode: 300_W_SO4	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197104						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

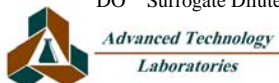
Sulfate	347.702	20	100.0	246.6	101	80	120				
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Sample ID: 118601-001J-MSD	SampType: MSD	TestCode: 300_W_SO4	Units: mg/L	Prep Date:	RunNo: 134409						
Client ID: M-116-B	Batch ID: R134409	TestNo: EPA 300.0		Analysis Date: 6/24/2011	SeqNo: 2197105						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	352.426	20	100.0	246.6	106	80	120	347.7	1.35	20	
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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: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 376.2_4500S2_WT

Sample ID: 118601-001G-MS	SampType: MS	TestCode: 376.2_4500S2	Units: mg/L	Prep Date:	RunNo: 134500						
Client ID: M-116-B	Batch ID: R134500	TestNo: SM4500-S= D	Analysis Date: 6/29/2011	SeqNo: 2199255							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	0.035	0.010	0.1000	0.02600	8.70	70	120				S

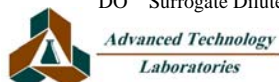
Sample ID: 118601-001G-MSD	SampType: MSD	TestCode: 376.2_4500S2	Units: mg/L	Prep Date:	RunNo: 134500						
Client ID: M-116-B	Batch ID: R134500	TestNo: SM4500-S= D	Analysis Date: 6/29/2011	SeqNo: 2199256							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	0.036	0.010	0.1000	0.02600	9.70	70	120	0.03470	2.84	20	S

Sample ID: LCS-R134500	SampType: LCS	TestCode: 376.2_4500S2	Units: mg/L	Prep Date:	RunNo: 134500						
Client ID: LCSW	Batch ID: R134500	TestNo: SM4500-S= D	Analysis Date: 6/29/2011	SeqNo: 2199259							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	0.101	0.010	0.1000	0	101	80	120				

Sample ID: MB-R134500	SampType: MBLK	TestCode: 376.2_4500S2	Units: mg/L	Prep Date:	RunNo: 134500						
Client ID: PBW	Batch ID: R134500	TestNo: SM4500-S= D	Analysis Date: 6/29/2011	SeqNo: 2199260							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	ND	0.010									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in 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: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

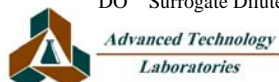
TestCode: 6010_W

Sample ID: LCS-73952		SampType: LCS		TestCode: 6010_W		Units: mg/L		Prep Date: 6/29/2011		RunNo: 134533	
Client ID: LCSW		Batch ID: 73952		TestNo: EPA 6010B EPA 3010A		Analysis Date: 6/29/2011				SeqNo: 2199617	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.967	0.0050	1.000	0	96.7	85	115				
Arsenic	0.972	0.010	1.000	0	97.2	85	115				
Barium	0.964	0.0030	1.000	0	96.4	85	115				
Beryllium	0.941	0.0030	1.000	0	94.1	85	115				
Cadmium	0.973	0.0030	1.000	0	97.3	85	115				
Chromium	0.875	0.0030	1.000	0	87.5	85	115				
Cobalt	0.980	0.0030	1.000	0	98.0	85	115				
Copper	0.949	0.0050	1.000	0	94.9	85	115				
Lead	0.954	0.0050	1.000	0	95.4	85	115				
Molybdenum	0.966	0.0050	1.000	0.0004605	96.6	85	115				
Nickel	0.933	0.0050	1.000	0	93.3	85	115				
Selenium	0.946	0.010	1.000	0	94.6	85	115				
Silver	0.960	0.0030	1.000	0	96.0	85	115				
Thallium	0.921	0.015	1.000	0	92.1	85	115				
Vanadium	0.946	0.0030	1.000	0	94.6	85	115				
Zinc	1.000	0.010	1.000	0.005727	99.4	85	115				

Sample ID: MB-73952		SampType: MBLK		TestCode: 6010_W		Units: mg/L		Prep Date: 6/29/2011		RunNo: 134533	
Client ID: PBW		Batch ID: 73952		TestNo: EPA 6010B EPA 3010A		Analysis Date: 6/29/2011				SeqNo: 2199619	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.0050									
Arsenic	ND	0.010									
Barium	ND	0.0030									
Beryllium	ND	0.0030									
Cadmium	ND	0.0030									
Chromium	ND	0.0030									
Cobalt	ND	0.0030									
Copper	ND	0.0050									
Lead	ND	0.0050									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in 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: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

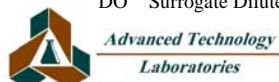
TestCode: 6010_W

Sample ID: MB-73952	SampType: MBLK	TestCode: 6010_W	Units: mg/L	Prep Date: 6/29/2011	RunNo: 134533						
Client ID: PBW	Batch ID: 73952	TestNo: EPA 6010B EPA 3010A		Analysis Date: 6/29/2011	SeqNo: 2199619						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	0.000461	0.0050									
Nickel	ND	0.0050									
Selenium	ND	0.010									
Silver	ND	0.0030									
Thallium	ND	0.015									
Vanadium	ND	0.0030									
Zinc	0.006	0.010									

Sample ID: 118601-001E-MS	SampType: MS	TestCode: 6010_W	Units: mg/L	Prep Date: 6/29/2011	RunNo: 134533						
Client ID: M-116-B	Batch ID: 73952	TestNo: EPA 6010B EPA 3010A		Analysis Date: 6/29/2011	SeqNo: 2199620						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.673	0.0050	2.500	0	107	73	128				
Arsenic	2.721	0.010	2.500	0	109	79	121				
Barium	2.610	0.0030	2.500	0.05811	102	82	118				
Beryllium	2.587	0.0030	2.500	0	103	84	119				
Cadmium	2.551	0.0030	2.500	0	102	79	117				
Chromium	2.374	0.0030	2.500	0.001567	94.9	78	115				
Cobalt	2.527	0.0030	2.500	0	101	80	118				
Copper	2.588	0.0050	2.500	0.001399	103	81	127				
Lead	2.506	0.0050	2.500	0	100	80	118				
Molybdenum	2.581	0.0050	2.500	0.01013	103	81	118				
Nickel	2.420	0.0050	2.500	0.002580	96.7	78	120				
Selenium	2.644	0.010	2.500	0	106	78	120				
Silver	2.678	0.0030	2.500	0	107	79	125				
Thallium	2.464	0.015	2.500	0	98.5	74	115				
Vanadium	2.591	0.0030	2.500	0	104	84	119				
Zinc	2.618	0.010	2.500	0.01624	104	75	122				

Qualifiers:

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



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

CLIENT: MACTEC

Work Order: 118601

Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_W

Sample ID: 118601-001E-MSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 6/29/2011	RunNo: 134533						
Client ID: M-116-B	Batch ID: 73952	TestNo: EPA 6010B	EPA 3010A	Analysis Date: 6/29/2011	SeqNo: 2199621						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.725	0.0050	2.500	0	109	73	128	2.673	1.93	20	
Arsenic	2.758	0.010	2.500	0	110	79	121	2.721	1.34	20	
Barium	2.663	0.0030	2.500	0.05811	104	82	118	2.610	2.04	20	
Beryllium	2.600	0.0030	2.500	0	104	84	119	2.587	0.497	20	
Cadmium	2.590	0.0030	2.500	0	104	79	117	2.551	1.51	20	
Chromium	2.412	0.0030	2.500	0.001567	96.4	78	115	2.374	1.57	20	
Cobalt	2.573	0.0030	2.500	0	103	80	118	2.527	1.79	20	
Copper	2.645	0.0050	2.500	0.001399	106	81	127	2.588	2.18	20	
Lead	2.528	0.0050	2.500	0	101	80	118	2.506	0.848	20	
Molybdenum	2.637	0.0050	2.500	0.01013	105	81	118	2.581	2.11	20	
Nickel	2.452	0.0050	2.500	0.002580	98.0	78	120	2.420	1.31	20	
Selenium	2.687	0.010	2.500	0	107	78	120	2.644	1.58	20	
Silver	2.737	0.0030	2.500	0	109	79	125	2.678	2.18	20	
Thallium	2.504	0.015	2.500	0	100	74	115	2.464	1.63	20	
Vanadium	2.650	0.0030	2.500	0	106	84	119	2.591	2.24	20	
Zinc	2.638	0.010	2.500	0.01624	105	75	122	2.618	0.744	20	

Qualifiers:

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



Advanced Technology
Laboratories

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

CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 7470_W

Sample ID: MB-73951	SampType: MBLK	TestCode: 7470_W	Units: µg/L	Prep Date: 6/29/2011	RunNo: 134515						
Client ID: PBW	Batch ID: 73951	TestNo: EPA 7470A		Analysis Date: 6/29/2011	SeqNo: 2199290						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.20

Sample ID: LCS-73951	SampType: LCS	TestCode: 7470_W	Units: µg/L	Prep Date: 6/29/2011	RunNo: 134515						
Client ID: LCSW	Batch ID: 73951	TestNo: EPA 7470A		Analysis Date: 6/29/2011	SeqNo: 2199291						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 10.235 0.20 10.00 0 102 85 115

Sample ID: 118601-001E-MS	SampType: MS	TestCode: 7470_W	Units: µg/L	Prep Date: 6/29/2011	RunNo: 134515						
Client ID: M-116-B	Batch ID: 73951	TestNo: EPA 7470A		Analysis Date: 6/29/2011	SeqNo: 2199292						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

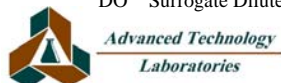
Mercury 11.148 0.20 10.00 0 111 70 130

Sample ID: 118601-001E-MSD	SampType: MSD	TestCode: 7470_W	Units: µg/L	Prep Date: 6/29/2011	RunNo: 134515						
Client ID: M-116-B	Batch ID: 73951	TestNo: EPA 7470A		Analysis Date: 6/29/2011	SeqNo: 2199293						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 11.179 0.20 10.00 0 112 70 130 11.15 0.281 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: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_DM_LL

Sample ID: MB-73912	SampType: MBLK	TestCode: 8015_W_DM_ Units: mg/L	Prep Date: 6/27/2011	RunNo: 134463							
Client ID: PBW	Batch ID: 73912	TestNo: EPA 8015B(M EPA 3510C	Analysis Date: 6/28/2011	SeqNo: 2198358							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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

Sample ID: LCS-73912	SampType: LCS	TestCode: 8015_W_DM_ Units: mg/L	Prep Date: 6/27/2011	RunNo: 134463							
Client ID: LCSW	Batch ID: 73912	TestNo: EPA 8015B(M EPA 3510C	Analysis Date: 6/28/2011	SeqNo: 2198359							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	0.630	0.050	1.000	0	63.0	52	128				
Surr: p-Terphenyl	0.063		0.08000		79.2	36	126				

Sample ID: MB-73912MS	SampType: MS	TestCode: 8015_W_DM_ Units: mg/L	Prep Date: 6/27/2011	RunNo: 134463							
Client ID: ZZZZZ	Batch ID: 73912	TestNo: EPA 8015B(M EPA 3510C	Analysis Date: 6/28/2011	SeqNo: 2198360							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

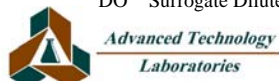
DRO	0.663	0.050	1.000	0	66.3	52	128				
Surr: p-Terphenyl	0.060		0.08000		75.4	36	126				

Sample ID: MB-73912MSD	SampType: MSD	TestCode: 8015_W_DM_ Units: mg/L	Prep Date: 6/27/2011	RunNo: 134463							
Client ID: ZZZZZ	Batch ID: 73912	TestNo: EPA 8015B(M EPA 3510C	Analysis Date: 6/28/2011	SeqNo: 2198361							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	0.693	0.050	1.000	0	69.3	52	128	0.6628	4.50	20	
Surr: p-Terphenyl	0.064		0.08000		79.7	36	126		0	0	

Qualifiers:

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



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_W_GP LL

Sample ID: M110627LCS2	SampType: LCS	TestCode: 8015_W_GP	Units: mg/L	Prep Date:	RunNo: 134454						
Client ID: LCSW	Batch ID: M11VW128	TestNo: EPA 8015B(M)	Analysis Date: 6/27/2011	SeqNo: 2199409							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.866	0.050	1.000	0	86.6	70	130				
Surr: Bromofluorobenzene (FID)	97.001		100.0		97.0	70	130				

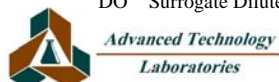
Sample ID: M110627MB1MS	SampType: MS	TestCode: 8015_W_GP	Units: mg/L	Prep Date:	RunNo: 134454						
Client ID: ZZZZZ	Batch ID: M11VW128	TestNo: EPA 8015B(M)	Analysis Date: 6/27/2011	SeqNo: 2199410							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.919	0.050	1.000	0	91.9	70	130				
Surr: Bromofluorobenzene (FID)	97.814		100.0		97.8	70	130				

Sample ID: M110627MB1MSD	SampType: MSD	TestCode: 8015_W_GP	Units: mg/L	Prep Date:	RunNo: 134454						
Client ID: ZZZZZ	Batch ID: M11VW128	TestNo: EPA 8015B(M)	Analysis Date: 6/27/2011	SeqNo: 2199411							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.882	0.050	1.000	0	88.2	70	130	0.9190	4.11	20	
Surr: Bromofluorobenzene (FID)	96.439		100.0		96.4	70	130		0	0	

Sample ID: M110627MB1	SampType: MBLK	TestCode: 8015_W_GP	Units: mg/L	Prep Date:	RunNo: 134454						
Client ID: PBW	Batch ID: M11VW128	TestNo: EPA 8015B(M)	Analysis Date: 6/27/2011	SeqNo: 2199412							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Bromofluorobenzene (FID)	93.849		100.0		93.8	70	130				

Qualifiers:

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



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

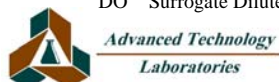
TestCode: 8081_W

Sample ID: MB-73943	SampType: MBLK	TestCode: 8081_W	Units: µg/L	Prep Date: 6/28/2011	RunNo: 134493						
Client ID: PBW	Batch ID: 73943	TestNo: EPA 8081A	EPA 3510C	Analysis Date: 6/28/2011	SeqNo: 2198855						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	ND	0.050									
4,4'-DDE	ND	0.050									
4,4'-DDT	ND	0.050									
Aldrin	ND	0.025									
alpha-BHC	ND	0.025									
alpha-Chlordane	ND	0.025									
beta-BHC	ND	0.025									
Chlordane	ND	0.25									
delta-BHC	ND	0.025									
Dieldrin	ND	0.050									
Endosulfan I	ND	0.025									
Endosulfan II	ND	0.050									
Endosulfan sulfate	ND	0.050									
Endrin	ND	0.050									
Endrin aldehyde	ND	0.050									
Endrin ketone	ND	0.050									
gamma-BHC	ND	0.025									
gamma-Chlordane	ND	0.025									
Heptachlor	ND	0.025									
Heptachlor epoxide	ND	0.025									
Methoxychlor	ND	0.25									
Toxaphene	ND	2.5									
Surr: Tetrachloro-m-xylene	0.404		0.5000		80.8	48	108				
Surr: Decachlorobiphenyl	0.430		0.5000		86.0	36	102				

Sample ID: LCS-73943	SampType: LCS	TestCode: 8081_W	Units: µg/L	Prep Date: 6/28/2011	RunNo: 134493						
Client ID: LCSW	Batch ID: 73943	TestNo: EPA 8081A	EPA 3510C	Analysis Date: 6/28/2011	SeqNo: 2198856						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aldrin	0.406	0.025	0.5000	0	81.2	59	108				

Qualifiers:

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



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

CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_W

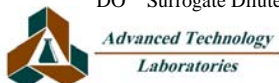
Sample ID: LCS-73943		SampType: LCS		TestCode: 8081_W		Units: µg/L		Prep Date: 6/28/2011		RunNo: 134493		
Client ID: LCSW		Batch ID: 73943		TestNo: EPA 8081A		EPA 3510C		Analysis Date: 6/28/2011		SeqNo: 2198856		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Dieldrin	0.424	0.050	0.5000	0	84.8	54	117					
Endrin	0.445	0.050	0.5000	0	89.0	50	122					
gamma-BHC	0.410	0.025	0.5000	0	82.0	60	112					
Heptachlor	0.409	0.025	0.5000	0	81.7	54	124					
Surr: Tetrachloro-m-xylene	0.408		0.5000		81.5	48	108					
Surr: Decachlorobiphenyl	0.433		0.5000		86.6	36	102					

Sample ID: MB-73943MS		SampType: MS		TestCode: 8081_W		Units: µg/L		Prep Date: 6/28/2011		RunNo: 134493		
Client ID: ZZZZZ		Batch ID: 73943		TestNo: EPA 8081A		EPA 3510C		Analysis Date: 6/28/2011		SeqNo: 2198857		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
4,4'-DDT	0.430	0.050	0.5000	0	85.9	41	135					
Aldrin	0.410	0.025	0.5000	0	82.1	59	108					
Dieldrin	0.425	0.050	0.5000	0	85.0	54	117					
Endrin	0.447	0.050	0.5000	0	89.4	50	122					
gamma-BHC	0.413	0.025	0.5000	0	82.7	60	112					
Heptachlor	0.412	0.025	0.5000	0	82.4	54	124					
Surr: Tetrachloro-m-xylene	0.410		0.5000		82.0	48	108					
Surr: Decachlorobiphenyl	0.436		0.5000		87.1	36	102					

Sample ID: MB-73943MSD		SampType: MSD		TestCode: 8081_W		Units: µg/L		Prep Date: 6/28/2011		RunNo: 134493		
Client ID: ZZZZZ		Batch ID: 73943		TestNo: EPA 8081A		EPA 3510C		Analysis Date: 6/28/2011		SeqNo: 2198858		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
4,4'-DDT	0.425	0.050	0.5000	0	85.0	41	135	0.4296	1.04	20		
Aldrin	0.407	0.025	0.5000	0	81.3	59	108	0.4103	0.874	20		
Dieldrin	0.421	0.050	0.5000	0	84.2	54	117	0.4252	0.962	20		
Endrin	0.442	0.050	0.5000	0	88.4	50	122	0.4472	1.22	20		
gamma-BHC	0.410	0.025	0.5000	0	82.0	60	112	0.4134	0.799	20		
Heptachlor	0.409	0.025	0.5000	0	81.8	54	124	0.4120	0.760	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: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_W

Sample ID: MB-73943MSD	SampType: MSD	TestCode: 8081_W	Units: µg/L	Prep Date: 6/28/2011	RunNo: 134493						
Client ID: ZZZZZZ	Batch ID: 73943	TestNo: EPA 8081A	EPA 3510C	Analysis Date: 6/28/2011	SeqNo: 2198858						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene	0.408		0.5000		81.7	48	108		0	0	
Surr: Decachlorobiphenyl	0.430		0.5000		86.0	36	102		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: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_W

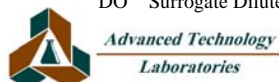
Sample ID: MB-73943		SampType: MBLK		TestCode: 8082_W		Units: µg/L		Prep Date: 6/28/2011		RunNo: 134512	
Client ID: PBW		Batch ID: 73943		TestNo: EPA 8082		EPA 3510C		Analysis Date: 6/29/2011		SeqNo: 2199263	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.50									
Aroclor 1221	ND	1.0									
Aroclor 1232	ND	0.50									
Aroclor 1242	ND	0.50									
Aroclor 1248	ND	0.50									
Aroclor 1254	ND	0.50									
Aroclor 1260	ND	0.50									
Aroclor 1262	ND	0.50									
Aroclor 1268	ND	0.50									
Surr: Decachlorobiphenyl	0.400		0.5000		79.9	26	132				
Surr: Tetrachloro-m-xylene	0.409		0.5000		81.8	43	119				

Sample ID: LCSA-73943		SampType: LCS		TestCode: 8082_W		Units: µg/L		Prep Date: 6/28/2011		RunNo: 134512	
Client ID: LCSW		Batch ID: 73943		TestNo: EPA 8082		EPA 3510C		Analysis Date: 6/29/2011		SeqNo: 2199264	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	4.304	0.50	5.000	0	86.1	53	115				
Aroclor 1260	4.874	0.50	5.000	0	97.5	52	125				
Surr: Decachlorobiphenyl	0.417		0.5000		83.4	26	132				
Surr: Tetrachloro-m-xylene	0.433		0.5000		86.7	43	119				

Sample ID: MB-73943-MSA		SampType: MS		TestCode: 8082_W		Units: µg/L		Prep Date: 6/28/2011		RunNo: 134512	
Client ID: ZZZZZZ		Batch ID: 73943		TestNo: EPA 8082		EPA 3510C		Analysis Date: 6/29/2011		SeqNo: 2199265	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	4.234	0.50	5.000	0	84.7	54	97				
Aroclor 1260	4.803	0.50	5.000	0	96.1	56	103				
Surr: Decachlorobiphenyl	0.420		0.5000		84.1	52	125				
Surr: Tetrachloro-m-xylene	0.425		0.5000		85.1	53	115				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in 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: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8082_W

Sample ID: MB-73943-MSDA	SampType: MSD	TestCode: 8082_W	Units: µg/L	Prep Date: 6/28/2011	RunNo: 134512						
Client ID: ZZZZZZ	Batch ID: 73943	TestNo: EPA 8082	EPA 3510C	Analysis Date: 6/29/2011	SeqNo: 2199266						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	4.307	0.50	5.000	0	86.1	54	97	4.234	1.70	20	
Aroclor 1260	4.927	0.50	5.000	0	98.5	56	103	4.803	2.56	20	
Surr: Decachlorobiphenyl	0.425		0.5000		85.0	26	132		0	0	
Surr: Tetrachloro-m-xylene	0.431		0.5000		86.3	43	119		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: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

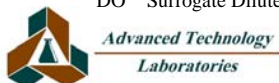
Sample ID: Q110627LCS1		SampType: LCS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 134434	
Client ID: LCSW		Batch ID: Q11VW118		TestNo: EPA 8260B		Analysis Date: 6/27/2011				SeqNo: 2198306	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.240	0.50	20.00	0	91.2	70	130				
Benzene	37.630	0.50	40.00	0	94.1	70	130				
Chlorobenzene	20.440	0.50	20.00	0	102	70	130				
MTBE	18.750	0.50	20.00	0	93.8	70	130				
Toluene	39.090	0.50	40.00	0	97.7	70	130				
Trichloroethene	19.350	0.50	20.00	0	96.8	70	130				
Surr: 1,2-Dichloroethane-d4	20.520		25.00		82.1	70	130				
Surr: 4-Bromofluorobenzene	22.980		25.00		91.9	70	130				
Surr: Dibromofluoromethane	21.160		25.00		84.6	70	130				
Surr: Toluene-d8	21.910		25.00		87.6	70	130				

Sample ID: Q110627MB3MS		SampType: MS		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 134434	
Client ID: ZZZZZ		Batch ID: Q11VW118		TestNo: EPA 8260B		Analysis Date: 6/27/2011				SeqNo: 2198307	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.890	0.50	20.00	0	79.4	70	130				
Benzene	35.920	0.50	40.00	0	89.8	70	130				
Chlorobenzene	19.590	0.50	20.00	0	98.0	70	130				
Toluene	37.000	0.50	40.00	0	92.5	70	130				
Trichloroethene	18.010	0.50	20.00	0	90.1	70	130				
Surr: 1,2-Dichloroethane-d4	19.640		25.00		78.6	70	130				
Surr: 4-Bromofluorobenzene	22.380		25.00		89.5	70	130				
Surr: Dibromofluoromethane	20.250		25.00		81.0	70	130				
Surr: Toluene-d8	22.300		25.00		89.2	70	130				

Sample ID: Q110627MB3MSD		SampType: MSD		TestCode: 8260_WP_LL		Units: µg/L		Prep Date:		RunNo: 134434	
Client ID: ZZZZZ		Batch ID: Q11VW118		TestNo: EPA 8260B		Analysis Date: 6/27/2011				SeqNo: 2198308	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.740	0.50	20.00	0	93.7	70	130	15.89	16.5	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: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

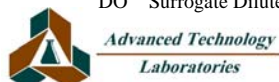
TestCode: 8260_WP_LL

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Client ID: ZZZZZ	Batch ID: Q11VW118	TestNo: EPA 8260B	Analysis Date: 6/27/2011	SeqNo: 2198308							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.110	0.50	40.00	0	97.8	70	130	35.92	8.50	20	
Chlorobenzene	20.670	0.50	20.00	0	103	70	130	19.59	5.37	20	
Toluene	41.010	0.50	40.00	0	103	70	130	37.00	10.3	20	
Trichloroethene	19.900	0.50	20.00	0	99.5	70	130	18.01	9.97	20	
Surr: 1,2-Dichloroethane-d4	20.500		25.00		82.0	70	130		0	0	
Surr: 4-Bromofluorobenzene	23.120		25.00		92.5	70	130		0	0	
Surr: Dibromofluoromethane	21.320		25.00		85.3	70	130		0	0	
Surr: Toluene-d8	22.890		25.00		91.6	70	130		0	0	

Sample ID: Q110627MB3	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 134434						
Client ID: PBW	Batch ID: Q11VW118	TestNo: EPA 8260B	Analysis Date: 6/27/2011	SeqNo: 2198309							
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									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

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



CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: Q110627MB3	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 134434						
Client ID: PBW	Batch ID: Q11VW118	TestNo: EPA 8260B		Analysis Date: 6/27/2011	SeqNo: 2198309						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

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



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CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

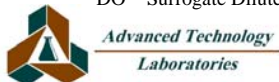
ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: Q110627MB3	SampType: MBLK	TestCode: 8260_WP_LL	Units: µg/L	Prep Date:	RunNo: 134434						
Client ID: PBW	Batch ID: Q11VW118	TestNo: EPA 8260B	Analysis Date: 6/27/2011	SeqNo: 2198309							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Hexane	ND	1.0									
Surr: 1,2-Dichloroethane-d4	24.840		25.00		99.4	70	130				
Surr: 4-Bromofluorobenzene	23.860		25.00		95.4	70	130				
Surr: Dibromofluoromethane	24.630		25.00		98.5	70	130				
Surr: Toluene-d8	23.180		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 | |



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CLIENT: MACTEC
Work Order: 118601
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ANALYTICAL QC SUMMARY REPORT

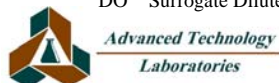
TestCode: 8270_W_FULL

Sample ID: MB-73864	SampType: MBLK	TestCode: 8270_W_FUL	Units: µg/L	Prep Date: 6/24/2011	RunNo: 134408
Client ID: PBW	Batch ID: 73864	TestNo: EPA 8270C	EPA 3510C	Analysis Date: 6/24/2011	SeqNo: 2197201

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	10									
1,2-Dichlorobenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,4-Dichlorobenzene	ND	10									
1,4-Dioxane	ND	10									
2,4,5-Trichlorophenol	ND	10									
2,4,6-Trichlorophenol	ND	10									
2,4-Dichlorophenol	ND	10									
2,4-Dimethylphenol	ND	10									
2,4-Dinitrophenol	ND	50									
2,4-Dinitrotoluene	ND	10									
2,6-Dinitrotoluene	ND	10									
2-Chloronaphthalene	ND	10									
2-Chlorophenol	ND	10									
2-Methylnaphthalene	ND	10									
2-Methylphenol	ND	10									
2-Nitroaniline	ND	50									
2-Nitrophenol	ND	10									
3,3'-Dichlorobenzidine	ND	20									
3-Nitroaniline	ND	50									
4,6-Dinitro-2-methylphenol	ND	50									
4-Bromophenyl-phenylether	ND	10									
4-Chloro-3-methylphenol	ND	50									
4-Chloroaniline	ND	20									
4-Chlorophenyl-phenylether	ND	10									
4-Methylphenol	ND	10									
4-Nitroaniline	ND	20									
4-Nitrophenol	ND	50									
Acenaphthene	ND	10									
Acenaphthylene	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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ANALYTICAL QC SUMMARY REPORT

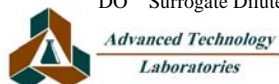
TestCode: 8270_W_FULL

Sample ID: MB-73864	SampType: MBLK	TestCode: 8270_W_FUL	Units: µg/L	Prep Date: 6/24/2011	RunNo: 134408
Client ID: PBW	Batch ID: 73864	TestNo: EPA 8270C	EPA 3510C	Analysis Date: 6/24/2011	SeqNo: 2197201

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	ND	10									
Benzidine (M)	ND	50									
Benzo(a)anthracene	ND	10									
Benzo(a)pyrene	ND	10									
Benzo(b)fluoranthene	ND	10									
Benzo(g,h,i)perylene	ND	10									
Benzo(k)fluoranthene	ND	10									
Benzoic acid	ND	50									
Benzyl alcohol	ND	20									
Bis(2-chloroethoxy)methane	ND	10									
Bis(2-chloroethyl)ether	ND	10									
Bis(2-chloroisopropyl)ether	ND	10									
Bis(2-ethylhexyl)phthalate	ND	10									
Butylbenzylphthalate	ND	10									
Chrysene	ND	10									
Di-n-butylphthalate	ND	10									
Di-n-octylphthalate	ND	10									
Dibenz(a,h)anthracene	ND	10									
Dibenzofuran	ND	10									
Diethylphthalate	ND	10									
Dimethylphthalate	ND	10									
Fluoranthene	ND	10									
Fluorene	ND	10									
Hexachlorobenzene	ND	10									
Hexachlorobutadiene	ND	20									
Hexachlorocyclopentadiene	ND	10									
Hexachloroethane	ND	10									
Indeno(1,2,3-cd)pyrene	ND	10									
Isophorone	ND	10									
N-Nitrosodi-n-propylamine	ND	10									

Qualifiers:

- | | | |
|---|--|--|
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CLIENT: MACTEC
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ANALYTICAL QC SUMMARY REPORT

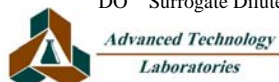
TestCode: 8270_W_FULL

Sample ID: MB-73864	SampType: MBLK	TestCode: 8270_W_FUL	Units: µg/L	Prep Date: 6/24/2011	RunNo: 134408						
Client ID: PBW	Batch ID: 73864	TestNo: EPA 8270C EPA 3510C		Analysis Date: 6/24/2011	SeqNo: 2197201						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	ND	10									
Naphthalene	ND	10									
Nitrobenzene	ND	10									
Pentachlorophenol	ND	50									
Phenanthrene	ND	10									
Phenol	ND	10									
Pyrene	ND	10									
Surr: 1,2-Dichlorobenzene-d4	70.340		100.0		70.3	46	97				
Surr: 2,4,6-Tribromophenol	68.680		100.0		68.7	59	124				
Surr: 2-Chlorophenol-d4	66.140		100.0		66.1	49	93				
Surr: 2-Fluorobiphenyl	78.630		100.0		78.6	57	107				
Surr: 2-Fluorophenol	41.860		100.0		41.9	27	60				
Surr: 4-Terphenyl-d14	107.150		100.0		107	69	132				
Surr: Nitrobenzene-d5	80.920		100.0		80.9	52	107				
Surr: Phenol-d5	29.720		100.0		29.7	15	50				

Sample ID: LCS-73864	SampType: LCS	TestCode: 8270_W_FUL	Units: µg/L	Prep Date: 6/24/2011	RunNo: 134408						
Client ID: LCSW	Batch ID: 73864	TestNo: EPA 8270C EPA 3510C		Analysis Date: 6/24/2011	SeqNo: 2197202						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	94.160	10	100.0	0	94.2	60	106				
1,4-Dichlorobenzene	84.200	10	100.0	0	84.2	52	98				
2,4-Dinitrotoluene	108.680	10	100.0	0	109	81	123				
2-Chlorophenol	77.740	10	100.0	0	77.7	46	105				
4-Chloro-3-methylphenol	96.690	50	100.0	0	96.7	51	140				
4-Nitrophenol	42.850	50	100.0	0	42.8	20	74				
Acenaphthene	86.210	10	100.0	0	86.2	64	119				
N-Nitrosodi-n-propylamine	99.660	10	100.0	0	99.7	65	117				
Pentachlorophenol	73.120	50	100.0	0	73.1	55	142				
Phenol	35.260	10	100.0	0	35.3	18	52				

Qualifiers:

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



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CLIENT: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

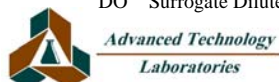
TestCode: 8270_W_FULL

Sample ID: LCS-73864	SampType: LCS	TestCode: 8270_W_FUL	Units: µg/L	Prep Date: 6/24/2011	RunNo: 134408						
Client ID: LCSW	Batch ID: 73864	TestNo: EPA 8270C EPA 3510C		Analysis Date: 6/24/2011	SeqNo: 2197202						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyrene	114.390	10	100.0	0	114	73	120				
Surr: 1,2-Dichlorobenzene-d4	80.330		100.0		80.3	46	97				
Surr: 2,4,6-Tribromophenol	85.680		100.0		85.7	59	124				
Surr: 2-Chlorophenol-d4	74.430		100.0		74.4	49	93				
Surr: 2-Fluorobiphenyl	96.000		100.0		96.0	57	107				
Surr: 2-Fluorophenol	44.940		100.0		44.9	27	60				
Surr: 4-Terphenyl-d14	108.470		100.0		108	69	132				
Surr: Nitrobenzene-d5	89.770		100.0		89.8	52	107				
Surr: Phenol-d5	33.230		100.0		33.2	15	50				

Sample ID: MB-73864MS	SampType: MS	TestCode: 8270_W_FUL	Units: µg/L	Prep Date: 6/24/2011	RunNo: 134408						
Client ID: ZZZZZZ	Batch ID: 73864	TestNo: EPA 8270C EPA 3510C		Analysis Date: 6/24/2011	SeqNo: 2197203						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	82.130	10	100.0	0	82.1	60	106				
1,4-Dichlorobenzene	73.230	10	100.0	0	73.2	52	98				
2,4-Dinitrotoluene	105.680	10	100.0	0	106	81	123				
2-Chlorophenol	70.910	10	100.0	0	70.9	46	105				
4-Chloro-3-methylphenol	91.010	50	100.0	0	91.0	51	140				
4-Nitrophenol	44.850	50	100.0	0	44.8	20	74				
Acenaphthene	81.210	10	100.0	0	81.2	64	119				
N-Nitrosodi-n-propylamine	90.210	10	100.0	0	90.2	65	117				
Pentachlorophenol	77.870	50	100.0	0	77.9	55	142				
Phenol	35.090	10	100.0	0	35.1	18	52				
Pyrene	110.610	10	100.0	0	111	73	120				
Surr: 1,2-Dichlorobenzene-d4	69.340		100.0		69.3	46	97				
Surr: 2,4,6-Tribromophenol	82.470		100.0		82.5	59	124				
Surr: 2-Chlorophenol-d4	66.160		100.0		66.2	49	93				
Surr: 2-Fluorobiphenyl	87.550		100.0		87.6	57	107				
Surr: 2-Fluorophenol	41.960		100.0		42.0	27	60				

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: 118601
 Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

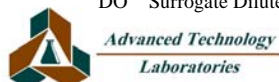
TestCode: 8270_W_FULL

Sample ID: MB-73864MS	SampType: MS	TestCode: 8270_W_FUL	Units: µg/L	Prep Date: 6/24/2011	RunNo: 134408						
Client ID: ZZZZZ	Batch ID: 73864	TestNo: EPA 8270C EPA 3510C		Analysis Date: 6/24/2011	SeqNo: 2197203						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	102.210		100.0		102	69	132				
Surr: Nitrobenzene-d5	79.290		100.0		79.3	52	107				
Surr: Phenol-d5	32.760		100.0		32.8	15	50				

Sample ID: MB-73864MSD	SampType: MSD	TestCode: 8270_W_FUL	Units: µg/L	Prep Date: 6/24/2011	RunNo: 134408						
Client ID: ZZZZZ	Batch ID: 73864	TestNo: EPA 8270C EPA 3510C		Analysis Date: 6/24/2011	SeqNo: 2197204						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	81.500	10	100.0	0	81.5	60	106	82.13	0.770	20	
1,4-Dichlorobenzene	71.400	10	100.0	0	71.4	52	98	73.23	2.53	20	
2,4-Dinitrotoluene	105.420	10	100.0	0	105	81	123	105.7	0.246	20	
2-Chlorophenol	68.500	10	100.0	0	68.5	46	105	70.91	3.46	20	
4-Chloro-3-methylphenol	90.080	50	100.0	0	90.1	51	140	91.01	1.03	20	
4-Nitrophenol	45.720	50	100.0	0	45.7	20	74	44.85	0	20	
Acenaphthene	81.150	10	100.0	0	81.2	64	119	81.21	0.0739	20	
N-Nitrosodi-n-propylamine	88.370	10	100.0	0	88.4	65	117	90.21	2.06	20	
Pentachlorophenol	77.660	50	100.0	0	77.7	55	142	77.87	0.270	20	
Phenol	33.680	10	100.0	0	33.7	18	52	35.09	4.10	20	
Pyrene	110.900	10	100.0	0	111	73	120	110.6	0.262	20	
Surr: 1,2-Dichlorobenzene-d4	66.640		100.0		66.6	46	97		0	0	
Surr: 2,4,6-Tribromophenol	82.450		100.0		82.4	59	124		0	0	
Surr: 2-Chlorophenol-d4	63.830		100.0		63.8	49	93		0	0	
Surr: 2-Fluorobiphenyl	84.780		100.0		84.8	57	107		0	0	
Surr: 2-Fluorophenol	40.630		100.0		40.6	27	60		0	0	
Surr: 4-Terphenyl-d14	103.200		100.0		103	69	132		0	0	
Surr: Nitrobenzene-d5	78.830		100.0		78.8	52	107		0	0	
Surr: Phenol-d5	31.350		100.0		31.4	15	50		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: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: D1946

Sample ID: MB-Z11A029	SampType: MBLK	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 134563						
Client ID: ZZZZZZ	Batch ID: Z11A029	TestNo: ASTM D1946		Analysis Date: 6/24/2011	SeqNo: 2200190						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	ND	10									
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Sample ID: LCS-Z11A029	SampType: LCS	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 134563						
Client ID: ZZZZZZ	Batch ID: Z11A029	TestNo: ASTM D1946		Analysis Date: 6/24/2011	SeqNo: 2200191						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	968.719	10	1000	0	96.9	70	130				
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Sample ID: LCSD-Z11A029	SampType: LCSD	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 134563						
Client ID: ZZZZZZ	Batch ID: Z11A029	TestNo: ASTM D1946		Analysis Date: 6/24/2011	SeqNo: 2200192						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

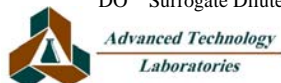
Methane	995.356	10	1000	0	99.5	70	130	968.7	2.71	20	
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Sample ID: 118601-006ADUP	SampType: DUP	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 134563						
Client ID: M-119-RED 15'	Batch ID: Z11A029	TestNo: ASTM D1946		Analysis Date: 6/24/2011	SeqNo: 2200194						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	13.503	10						13.44	0.438	20	
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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: MACTEC
Work Order: 118601
Project: MTA WESTSIDE EXTENSION, 4953101561

ANALYTICAL QC SUMMARY REPORT

TestCode: RSK175_ATL

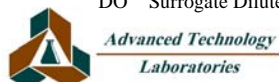
Sample ID: MB-Z11A030	SampType: MBLK	TestCode: RSK175_ATL	Units: ug/L	Prep Date:	RunNo: 134626						
Client ID: PBW	Batch ID: Z11A030	TestNo: RSK175		Analysis Date: 6/28/2011	SeqNo: 2201559						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	ND	200									
Ethane	ND	2.0									
Ethylene	ND	3.0									
Methane	ND	1.0									

Sample ID: LCS-Z11A030	SampType: LCS	TestCode: RSK175_ATL	Units: ug/L	Prep Date:	RunNo: 134626						
Client ID: LCSW	Batch ID: Z11A030	TestNo: RSK175		Analysis Date: 6/28/2011	SeqNo: 2201560						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	658.450	200	810.0	0	81.3	70	130				
Ethane	164.380	2.0	171.0	0	96.1	70	130				
Ethylene	195.870	3.0	212.0	0	92.4	70	130				
Methane	99.970	1.0	98.00	0	102	70	130				

Sample ID: LCSD-Z11A030	SampType: LCSD	TestCode: RSK175_ATL	Units: ug/L	Prep Date:	RunNo: 134626						
Client ID: LCSS02	Batch ID: Z11A030	TestNo: RSK175		Analysis Date: 6/28/2011	SeqNo: 2201561						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	653.140	200	810.0	0	80.6	70	130	658.4	0.810	20	
Ethane	159.200	2.0	171.0	0	93.1	70	130	164.4	3.20	20	
Ethylene	189.580	3.0	212.0	0	89.4	70	130	195.9	3.26	20	
Methane	97.050	1.0	98.00	0	99.0	70	130	99.97	2.96	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 | |



July 5, 2011

Advanced Technology Laboratories
ATTN: Rachelle Arada
3275 Walnut Ave.
Signal Hill, CA 90755



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: 118601
Lab Number: C062401-01

Enclosed are results for sample(s) received 6/24/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria, and meet all requirements of the NELAC Standards.
- All results are reported without qualifications unless otherwise noted.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: Advanced Technology Laboratories
Attn: Rachelle Arada
Project Name: NA
Project No.: 118601
Date Received: 06/24/11
Matrix: Air
Reporting Units: ppmv

EPA 15/16							
Lab No.:	C062401-01						
Client Sample I.D.:	118601-006B / M-119-RED 15'						
Date Sampled:	06/23/11						
Date Analyzed:	06/24/11						
QC Batch No.:	110624GC3A1						
Analyst Initials:	ZK						
Dilution Factor:	1.0						
ANALYTE	Result ppmv	RL ppmv					
Hydrogen Sulfide	ND	0.20					

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 7-5-11

The cover letter is an integral part of this analytical report




QC Batch No.: 110624GC3A1
 Matrix: Air
 Units: ppmv

Page 3 of 3
 C062401

QC for Sulfur Compounds by EPA 15/16

Lab No.:	Method Blank		LCS		LCSD			
Date Analyzed:	06/24/11		06/24/11		06/24/11			
Analyst Initials:	ZK		ZK		ZK			
Datafile:	24jun004		24jun002		24jun003			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.20	98	70-130%	100	70-130%	1.8	<30

ND = Not Detected (Below RL)
 RL = Reporting Limit

Reviewed/Approved By: 
 Mark J. Johnson
 Operations Manager

Date: 7-5-11

The cover letter is an integral part of this analytical report.

2062401-01

CHAIN-OF-CUSTODY RECORD

Advanced Technology Laboratories

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

QC Level: RTNE

Subcontractor:

Air Technology Laboratories
18501 E. Gale Ave, Suite 130
City of Industry, CA 91748

TEL: (626) 964-4032
FAX: (626) 964-5832
Acct #:

Field Sampler: Anthony Marino

23-Jun-11





Sample ID	Matrix	Date Collected	Bottle Type	H2S	Requested Tests
118601-006B / M-119-RED 15'	Vapor	6/23/2011 11:30:00 AM	TEDLAR BAG	1	

General Comments: Please email sample receipt acknowledgement to the PM. (RX)

Please use PO#: SC06527 Please fax results by: NORMAL TAT

Analyze the sample for H2S by EPA 1516

Please send report to Rachelle Arada

Relinquished by: 	Date/Time: 6/23/11	Received by: 	Date/Time: 6/24/11 9:33
Relinquished by: 	Date/Time: 6/24/11 9:33	Received by: 	Date/Time: 6/24/11 9:33

G-3.8

MTA Westside Extension PE Phase

Vapor Sample Data

Location: M-114

July 19, 2011



Jay Neuhaus
MACTEC
2171 Campus Drive, Suite 100
Irvine, CA 92612
TEL: (949) 224-0050
FAX:

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

Workorder No.: 118863

RE: MTA Westside, 4953-10-1561

Attention: Jay Neuhaus

Enclosed are the results for sample(s) received on July 11, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Eddie F. Rodriguez
Laboratory Director

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



CLIENT: MACTEC
Project: MTA Westside, 4953-10-1561
Lab Order: 118863

CASE NARRATIVE

The sample for EPA 1516 analysis was subcontracted to Air Technology Lab.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 19-Jul-11

CLIENT:	MACTEC	Client Sample ID:	M-114-25'
Lab Order:	118863	Collection Date:	7/11/2011 10:00:00 AM
Project:	MTA Westside, 4953-10-1561	Matrix:	SOIL VAPOR
Lab ID:	118863-001A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASES BY GAS CHROMATOGRAPHY

ASTM D1946

RunID: GC18_110712A	QC Batch: Z11A032	PrepDate:	Analyst: DMP	
Methane	960000	10000 ppmv	1000	7/12/2011 01:34 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

Date: 19-Jul-11

CLIENT: MACTEC
Work Order: 118863
Project: MTA Westside, 4953-10-1561

ANALYTICAL QC SUMMARY REPORT

TestCode: D1946

Sample ID: MB-Z11A032	SampType: MBLK	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 135029						
Client ID: ZZZZZ	Batch ID: Z11A032	TestNo: ASTM D1946		Analysis Date: 7/12/2011	SeqNo: 2209802						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	10									

Sample ID: LCS-Z11A032	SampType: LCS	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 135029						
Client ID: ZZZZZ	Batch ID: Z11A032	TestNo: ASTM D1946		Analysis Date: 7/12/2011	SeqNo: 2209803						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	1067.141	10	1000	0	107	70	130				

Sample ID: LCSD-Z11A032	SampType: LCSD	TestCode: D1946	Units: ppmv	Prep Date:	RunNo: 135029						
Client ID: ZZZZZ	Batch ID: Z11A032	TestNo: ASTM D1946		Analysis Date: 7/12/2011	SeqNo: 2209805						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	1062.404	10	1000	0	106	70	130	1067	0.445	20	

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

July 20, 2011

Advanced Technology Laboratories
ATTN: Rachelle Arada
3275 Walnut Ave.
Signal Hill, CA 90755



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

LABORATORY TEST RESULTS

Project Reference: 118863
Lab Number: C071201-01

Enclosed are results for sample(s) received 7/12/11 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria, and meet all requirements of the NELAC Standards.
- All results are reported without qualifications unless otherwise noted.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures


Note: The cover letter is an integral part of this analytical report.

Client: Advanced Technology Laboratories
Attn: Rachelle Arada
Project Name: NA
Project No.: 118863
Date Received: 07/12/11
Matrix: Air
Reporting Units: ppmv

EPA 15/16

Lab No.:	C071201-01							
Client Sample I.D.:	118863-001B / M-114-25'							
Date Sampled:	07/11/11							
Date Analyzed:	07/12/11							
QC Batch No.:	110712GC3A1							
Analyst Initials:	ZK							
Dilution Factor:	1.0							
ANALYTE	Result ppmv	RL ppmv						
Hydrogen Sulfide	ND	0.20						

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 7-20-11

The cover letter is an integral part of this analytical report

