

ATTACHMENT 9

INFLUENT CHARACTERIZATION DATA

HAZARDOUS WASTE CHARACTERIZATION DATA

FILTER MEDIA MOISTURE CONTENT DATA

BAG FILTER MOISTURE CONTENT DATA

MATERIAL SAFETY DATA SHEETS

INFLUENT CHARACTERIZATION DATA

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Media Waste Characterization

Sampled: 08/24/06
Received: 08/24/06
Issued: 08/29/06 12:27

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPH2672-01
IPH2672-02

CLIENT ID

PT-INF
PT-INF2

MATRIX

Water
Water

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH2672

Sampled: 08/24/06

Received: 08/24/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH2672-01 (PT-INF - Water)								
Reporting Units: g/cc								
Density	Displacement	6H28075	NA	0.99	1	8/28/2006	8/28/2006	
Sample ID: IPH2672-01 (PT-INF - Water)								
Reporting Units: mg/l								
Sediment	ASTM D3977	6H28057	10	10	1	8/28/2006	8/28/2006	
Total Suspended Solids	EPA 160.2	6H25127	10	10	1	8/25/2006	8/25/2006	
Volatile Suspended Solids	EPA 160.4	6H25125	10	ND	1	8/25/2006	8/25/2006	
Sample ID: IPH2672-02 (PT-INF2 - Water)								
Reporting Units: g/cc								
Density	Displacement	6H28075	NA	0.99	1	8/28/2006	8/28/2006	
Sample ID: IPH2672-02 (PT-INF2 - Water)								
Reporting Units: mg/l								
Sediment	ASTM D3977	6H28057	10	19	1	8/28/2006	8/28/2006	
Total Suspended Solids	EPA 160.2	6H25127	10	19	1	8/25/2006	8/25/2006	
Volatile Suspended Solids	EPA 160.4	6H25125	10	15	1	8/25/2006	8/25/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization
 Report Number: IPH2672

Sampled: 08/24/06
 Received: 08/24/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H25125 Extracted: 08/25/06										
Blank Analyzed: 08/25/2006 (6H25125-BLK1)										
Volatile Suspended Solids	ND	10	mg/l							
Duplicate Analyzed: 08/25/2006 (6H25125-DUP1)										
Volatile Suspended Solids	1730	10	mg/l		1800			4	20	
Source: IPH2339-01										
Batch: 6H25127 Extracted: 08/25/06										
Blank Analyzed: 08/25/2006 (6H25127-BLK1)										
Total Suspended Solids	ND	10	mg/l							
LCS Analyzed: 08/25/2006 (6H25127-BS1)										
Total Suspended Solids	940	10	mg/l	1000		94	85-115			
Duplicate Analyzed: 08/25/2006 (6H25127-DUP1)										
Total Suspended Solids	2350	10	mg/l		2400			2	10	
Source: IPH2339-01										
Batch: 6H28075 Extracted: 08/28/06										
Duplicate Analyzed: 08/28/2006 (6H28075-DUP1)										
Density	0.998	NA	g/cc		1.0			0	20	
Source: IPH2656-01										

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH2672

Sampled: 08/24/06

Received: 08/24/06

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

IPH2672 <Page 4 of 5>

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH2672

Sampled: 08/24/06

Received: 08/24/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 160.2	Water	X	X
EPA 160.4	Water	N/A	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

IP12672

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing- NPDES/BMP Media Waste Characterization		ANALYSIS REQUIRED		Field readings: Temp = pH=	
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Suspended Solids - EPA 160.4		Comments	
Sampler: <i>ASAC</i>		Suspended Sediments Concentration (ASTM Method)		X			
Sample Description		Sample Matrix		Preservative		Bottle #	
PT-INF		W		None			
PT-INF2		W		None			
Sampling Date/Time		Date/Time		Date/Time		Date/Time	
8/24/06 1145		8/24/06 1145		8/24/06 1635		8/24/06 1635	
Relinquished By		Date/Time		Received By		Date/Time	
<i>[Signature]</i>		8-24-06 1635		<i>[Signature]</i>		8-24-06 1635	
Relinquished By		Date/Time		Received By		Date/Time	
<i>[Signature]</i>		8/24/06 2000		<i>[Signature]</i>		8/24/06 2000	
Relinquished By		Date/Time		Received By		Date/Time	
<i>[Signature]</i>		8/24/06 2000		<i>[Signature]</i>		8/24/06 2000	
Turn around Time: (check)		24 Hours		48 Hours		72 Hours	
		<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Perchlorate Only 72 Hours		Metals Only 72 Hours		Sample Integrity: (Check)		On Ice:	
<input type="checkbox"/>		<input type="checkbox"/>		Intact <input checked="" type="checkbox"/>		51	

[Handwritten mark]

11

IP110407

Del Mar Analytical Version 04/28/06 CHAIN OF CUSTODY FORM

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing- NPDES/BMP Media Waste Characterization		ANALYSIS REQUIRED												Field readings: Temp = pH=			
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691														Comments			
Sampler: Eric Tsai		Fax Number: (626) 568-6515																	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Grain Size												
PT-INF2	W			7/31 9:15	None		X												
								Received By: <i>BD</i>		Date/Time: 8/3/06 15:20		Turn around Time: (check) 24 Hours _____ 5 Days _____							
								Received By: <i>BD</i>		Date/Time: 8/3/06		48 Hours <input checked="" type="checkbox"/> X 10 Days _____							
								Received By: <i>Ed</i>		Date/Time: 8/3/06		72 Hours _____ Normal _____							
								Received By: <i>Ed</i>		Date/Time: 8/3/06		Perchlorate Only 72 Hours _____							
								Received By: <i>Ed</i>		Date/Time: 8/3/06		Metals Only 72 Hours _____							
								Received By: <i>Ed</i>		Date/Time: 8/3/06		Sample Integrity: (Check) Intact <input checked="" type="checkbox"/>		On Ice: <input checked="" type="checkbox"/>					

ER
2230

Relinquished By: *Eric Tsai*
Date/Time: 8-3-06 7:34:06
Relinquished By: *BD*
Date/Time: 8/3/06
Relinquished By: *Ed*
Date/Time: 8/3/06

Received By: *Ed*
Date/Time: 8/3/06 18:00
Received By: *Ed*
Date/Time: 8/3/06 18:00

July 7, 2006

MWH
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101

Attention: Bronwyn Kelly
Project: Media Waste Characterization
Sampled: 07/31/06
TestAmerica Number: IPH0409

Dear Ms. Kelly:


PTS Laboratories performed the ASTM D4464M Grainsize analysis for the project referenced above. Please use the following cross-reference table when reviewing your results.

MWH ID	TestAmerica ID	PTS ID
PT-INF2	IPH0409-01	36617

If you have any questions or require further assistance, please do not hesitate to contact me at (949) 261-1022, extension 215.

Sincerely yours,

TestAmerica


Michele Chamberlin
Project Manager

Enclosure

PARTICLE SIZE SUMMARY
(METHOD: ASTM D4464M)

PROJECT NAME:
PROJECT NO:

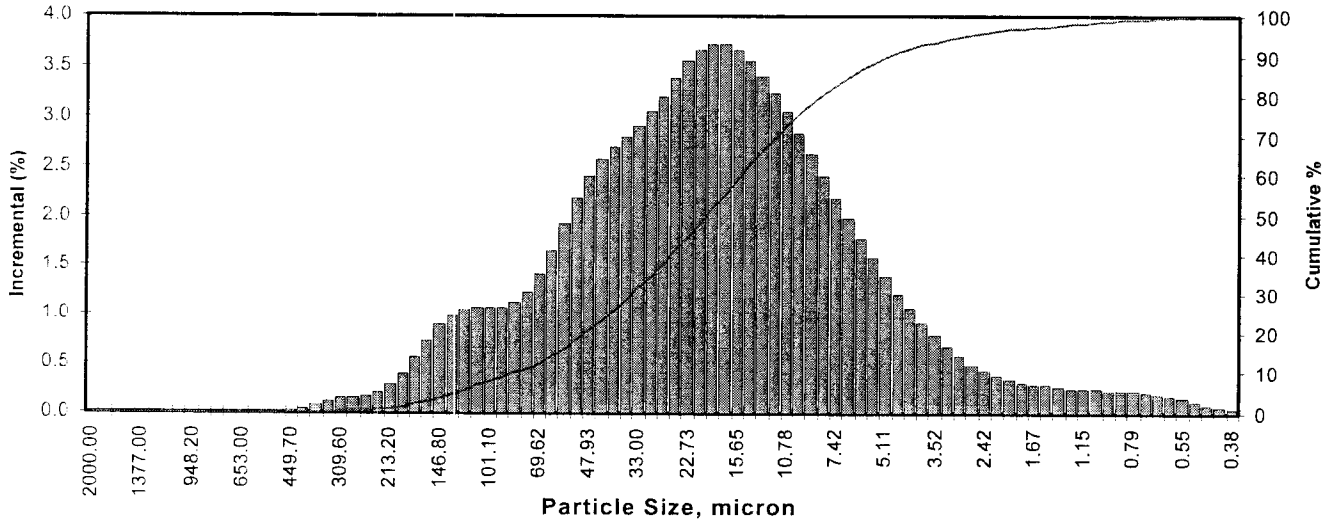
N/A
IPH0409

Sample ID	Matrix	Median Grain Size, micron (1)	CUMULATIVE PERCENT GREATER THAN										
			5%	10%	16%	25%	40%	50%	60%	75%	84%	90%	95%
IPH0409-01	N/A	20.022	130.293	84.334	58.579	41.325	25.985	20.022	15.529	9.986	6.948	5.010	2.462

(1) Based on Trask Median
(2) Obscuration at 5% due to low concentration, optimal range between 8-11%.

Client: TestAmerica
 Project: N/A
 Project No: IPH0409

PTS File No: 36617
 Sample ID: IPH0409-01
 Matrix: N/A



Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution	
	Incremental percent	Cumulative percent		Incremental percent	Cumulative percent		Incremental percent	Cumulative percent
2000.00	0.00	0.0	52.63	2.19	18.4	1.385	0.260	97.7
1822.00	0.00	0.0	47.93	2.41	20.8	1.261	0.250	97.9
1660.00	0.00	0.0	43.66	2.58	23.4	1.149	0.250	98.2
1512.00	0.00	0.0	39.77	2.70	26.1	1.047	0.240	98.4
1377.00	0.00	0.0	36.24	2.80	28.9	0.953	0.230	98.6
1255.00	0.00	0.0	33.00	2.91	31.8	0.869	0.230	98.9
1143.00	0.00	0.0	30.07	3.05	34.8	0.791	0.220	99.1
1041.00	0.00	0.0	27.38	3.21	38.0	0.721	0.200	99.3
948.20	0.00	0.0	24.95	3.39	41.4	0.657	0.180	99.5
863.90	0.00	0.0	22.73	3.55	45.0	0.598	0.160	99.6
786.90	0.00	0.0	20.70	3.67	48.7	0.545	0.140	99.8
716.90	0.00	0.0	18.86	3.72	52.4	0.496	0.110	99.9
653.00	0.00	0.0	17.18	3.72	56.1	0.452	0.079	100.0
594.90	0.00	0.0	15.65	3.66	59.8	0.412	0.054	100.0
541.90	0.00	0.0	14.26	3.55	63.3	0.375	0.030	100.1
493.60	0.00	0.0	12.99	3.41	66.7	TOTALS: 100.05 100.1		
449.70	0.01	0.0	11.83	3.24	70.0	Measure Trask Inman		
409.60	0.04	0.0	10.78	3.05	73.0	Median, mm	0.0200	0.0200
373.10	0.07	0.1	9.82	2.84	75.8	Median, micron	20.022	20.022
339.80	0.11	0.2	8.94	2.63	78.5	Mean, mm	0.0257	0.0202
309.60	0.14	0.4	8.15	2.41	80.9	Mean, micron	25.655	20.175
282.10	0.15	0.5	7.42	2.19	83.1	Sorting	2.0342	1.538
256.80	0.16	0.7	6.76	1.98	85.1	Skewness	1.0146	-0.007
234.10	0.20	0.9	6.16	1.77	86.8	Kurtosis	0.1975	0.862
213.20	0.27	1.1	5.61	1.58	88.4	Cumulative Percent greater than		
194.20	0.39	1.5	5.11	1.39	89.8	Distribution percent	Particle Size	
176.80	0.55	2.1	4.66	1.21	91.0		Micron	Millimeters
161.20	0.73	2.8	4.24	1.05	92.1	5	130.293	0.1303
146.80	0.88	3.7	3.86	0.90	93.0	10	84.334	0.0843
133.70	0.99	4.7	3.52	0.77	93.7	16	58.579	0.0586
121.80	1.04	5.7	3.21	0.66	94.4	25	41.325	0.0413
111.00	1.06	6.8	2.92	0.57	95.0	40	25.985	0.0260
101.10	1.05	7.8	2.66	0.49	95.4	50	20.022	0.0200
92.09	1.06	8.9	2.42	0.42	95.9	60	15.529	0.0155
83.90	1.11	10.0	2.21	0.37	96.2	75	9.986	0.0100
76.43	1.22	11.2	2.01	0.33	96.6	84	6.948	0.0069
69.62	1.40	12.6	1.83	0.30	96.9	90	5.010	0.0050
63.41	1.65	14.3	1.67	0.28	97.1	95	2.462	0.0025
57.77	1.92	16.2	1.52	0.27	97.4			

36617

SUBCONTRACT ORDER - PROJECT # IPH0409

SENDING LABORATORY:	RECEIVING LABORATORY:
TestAmerica - Irvine, CA 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 260-3297 Project Manager: Michele Chamberlin	PTS Labs-SUB 8100 Secura Way Santa Fe Springs, CA 90670 Phone: (562) 907-3607 Fax: (562) 907-3610

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IPH0409-01 Water	Sampled: 07/31/06 09:15	
Grainsize	08/28/06 09:15	
Containers Supplied:		
1 gal Poly (IPH0409-01A)		

SAMPLE INTEGRITY:					
All containers intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Sample labels/COC agree:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received On Ice::	<input type="checkbox"/> Yes <input type="checkbox"/> No
Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Preserved Properly:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received at (temp):	_____

<i>[Signature]</i>	8-4-06	1000	<i>[Signature]</i>	8-4-06	1000
Released By	Date	Time	Received By	Date	Time
<i>[Signature]</i>	8-4-06	1300	<i>[Signature]</i> PTS	8/4/06	13:09
Released By	Date	Time	Received By	Date	Time

July 7, 2006

MWH
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101

Attention: Bronwyn Kelly

Project: Media Waste Characterization
Sampled: 07/31/06
TestAmerica Number: IPH0410

Dear Ms. Kelly:

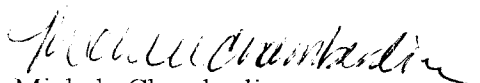
PTS Laboratories performed the ASTM D4464M Grainsize analysis for the project referenced above. Please use the following cross-reference table when reviewing your results.

MWH ID	TestAmerica ID	PTS ID
PT-INF	IPH0410-01	36618

If you have any questions or require further assistance, please do not hesitate to contact me at (949) 261-1022, extension 215.

Sincerely yours,

TestAmerica


Michele Chamberlin
Project Manager

Enclosure

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D4464M)

PROJECT NAME:
PROJECT NO.

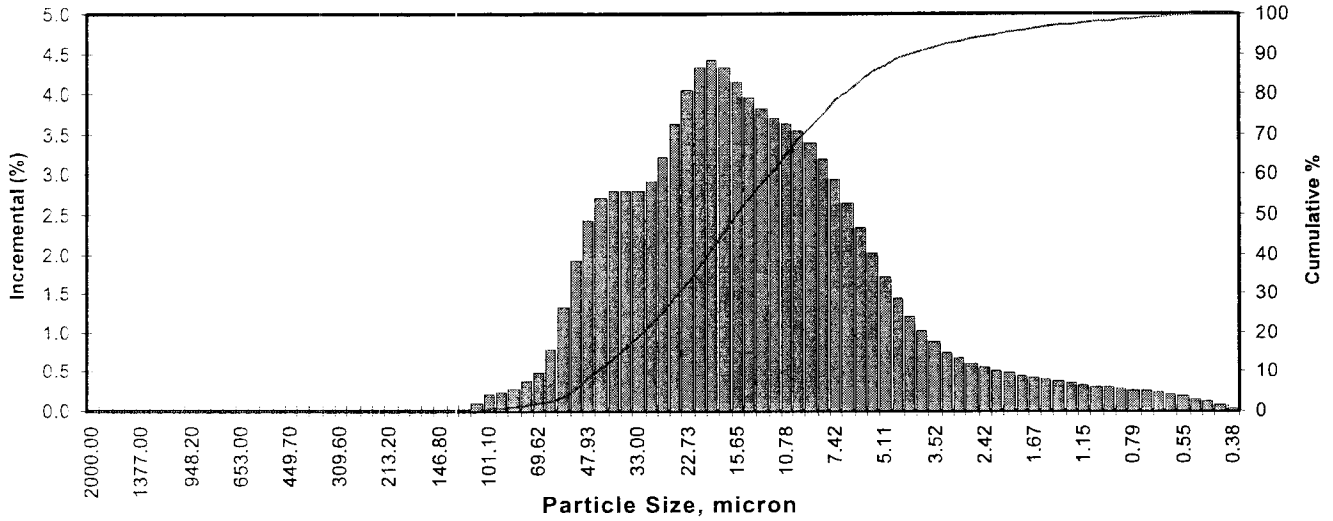
N/A
IPH0410

Sample ID	Matrix	Median Grain Size, micron (1)	CUMULATIVE PERCENT GREATER THAN										
			5%	10%	16%	25%	40%	50%	60%	75%	84%	90%	95%
IPH0410-01	N/A	15.757	54.774	44.987	36.796	27.907	19.612	15.757	12.336	8.236	5.804	3.754	2.075

(1) Based on Trask Median
(2) Obscuration at 5% due to low concentration, optimal range between 8-11%.

Client: Tes:America
 Project: N/A
 Project No: IPH0410

PTS File No: 36618
 Sample ID: IPH0410-01
 Matrix: N/A



Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution	
	Incremental percent	Cumulative percent		Incremental percent	Cumulative percent		Incremental percent	Cumulative percent
2000.00	0.00	0.0	52.63	1.92	5.7	1.385	0.360	97.0
1822.00	0.00	0.0	47.93	2.42	8.1	1.261	0.340	97.3
1660.00	0.00	0.0	43.66	2.71	10.8	1.149	0.320	97.7
1512.00	0.00	0.0	39.77	2.80	13.6	1.047	0.300	98.0
1377.00	0.00	0.0	36.24	2.79	16.4	0.953	0.290	98.2
1255.00	0.00	0.0	33.00	2.79	19.2	0.869	0.280	98.5
1143.00	0.00	0.0	30.07	2.92	22.1	0.791	0.260	98.8
1041.00	0.00	0.0	27.38	3.22	25.3	0.721	0.250	99.0
948.20	0.00	0.0	24.95	3.64	29.0	0.657	0.230	99.3
863.90	0.00	0.0	22.73	4.06	33.0	0.598	0.210	99.5
786.90	0.00	0.0	20.70	4.34	37.4	0.545	0.180	99.7
716.90	0.00	0.0	18.86	4.43	41.8	0.496	0.140	99.8
653.00	0.00	0.0	17.18	4.34	46.2	0.452	0.110	99.9
594.90	0.00	0.0	15.65	4.15	50.3	0.412	0.064	100.0
541.90	0.00	0.0	14.26	3.96	54.3	0.375	0.034	100.0
493.60	0.00	0.0	12.99	3.81	58.1	TOTALS: 100.01 100.0		
449.70	0.00	0.0	11.83	3.71	61.8	Measure Trask Inman		
409.60	0.00	0.0	10.78	3.64	65.4	Median, mm	0.0158	0.0158
373.10	0.00	0.0	9.82	3.54	69.0	Median, micron	15.757	15.757
339.80	0.00	0.0	8.94	3.40	72.4	Mean, mm	0.0181	0.0146
309.60	0.00	0.0	8.15	3.20	75.6	Mean, micron	18.071	14.614
282.10	0.00	0.0	7.42	2.95	78.5	Sorting	1.8408	1.332
256.80	0.00	0.0	6.76	2.65	81.2	Skewness	0.9621	0.082
234.10	0.00	0.0	6.16	2.34	83.5	Kurtosis	0.2385	0.772
213.20	0.00	0.0	5.61	2.02	85.5	Cumulative Percent greater than		
194.20	0.00	0.0	5.11	1.72	87.2	Distribution percent	Particle Size	
176.80	0.00	0.0	4.66	1.44	88.7		Micron	Millimeters
161.20	0.00	0.0	4.24	1.21	89.9	5	54.774	0.0548
146.80	0.00	0.0	3.86	1.02	90.9	10	44.987	0.0450
133.70	0.00	0.0	3.52	0.87	91.8	16	36.796	0.0368
121.80	0.01	0.0	3.21	0.75	92.5	25	27.907	0.0279
111.00	0.10	0.1	2.92	0.67	93.2	40	19.612	0.0196
101.10	0.21	0.3	2.66	0.61	93.8	50	15.757	0.0158
92.09	0.23	0.5	2.42	0.56	94.4	60	12.336	0.0123
83.90	0.28	0.8	2.21	0.52	94.9	75	8.236	0.0082
76.43	0.36	1.2	2.01	0.48	95.4	84	5.804	0.0058
69.62	0.49	1.7	1.83	0.45	95.8	90	3.754	0.0038
63.41	0.79	2.5	1.67	0.42	96.2	95	2.075	0.0021
57.77	1.31	3.8	1.52	0.39	96.6			

36618

SUBCONTRACT ORDER - PROJECT # IPH0410

SENDING LABORATORY:	RECEIVING LABORATORY:
TestAmerica - Irvine, CA 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 260-3297 Project Manager: Michele Chamberlin	PTS Labs-SUB 8100 Secura Way Santa Fe Springs, CA 90670 Phone: (562) 907-3607 Fax: (562) 907-3610

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IPH0410-01 Water	Sampled: 07/31/06 09:17	
Grainsize	08/28/06 09:17	
✓ Containers Supplied: 1 gal Poly (IPH0410-01A)		

SAMPLE INTEGRITY:

All containers intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Sample labels/COC agree: <input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received On Ice: <input type="checkbox"/> Yes <input type="checkbox"/> No
Custody Seals Present: <input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Preserved Properly: <input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received at (temp): _____

<i>E. Chamberlin</i>	8-4-06	1000	<i>Cal-U</i>	8-4-06	1000
Released By	Date	Time	Received By	Date	Time
<i>Cal-U</i>	8-4-06	1300	<i>PTS</i>	8/4/06	13:09
Released By	Date	Time	Received By	Date	Time

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Media Waste Characterization

Sampled: 08/02/06
Received: 08/03/06
Revised: 08/10/06 17:28

NELAP #01108CA California ELAP#1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.*

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 5°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: The report was revised to add results for VSS and Sediment Concentration.

LABORATORY ID
IPH0411-01

CLIENT ID
PT-INF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH0411

Sampled: 08/02/06

Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0411-01 (PT-INF - Water)									
Reporting Units: g/cc									
Density	Displacement	6H09146	N/A	NA	1.0	1	08/09/06	08/09/06	
Sample ID: IPH0411-01 (PT-INF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H10101	10	10	48	1	08/10/06	08/10/06	
Total Suspended Solids	EPA 160.2	6H08139	10	10	48	1	08/08/06	08/08/06	
Volatile Suspended Solids	EPA 160.4	6H08127	10	10	14	1	08/08/06	08/08/06	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization
 Report Number: IPH0411

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08127 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08127-BLK1)											
Volatile Suspended Solids	ND	10	10	mg/l							
Duplicate Analyzed: 08/08/2006 (6H08127-DUP1)											
Volatile Suspended Solids	2230	10	10	mg/l		2200			1	20	
Batch: 6H08139 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08139-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/08/2006 (6H08139-BS1)											
Total Suspended Solids	965	10	10	mg/l	1000		96	85-115			
Duplicate Analyzed: 08/08/2006 (6H08139-DUP1)											
Total Suspended Solids	164	10	10	mg/l		150			9	10	
Batch: 6H09146 Extracted: 08/09/06											
Duplicate Analyzed: 08/09/2006 (6H09146-DUP1)											
Density	0.995	NA	N/A	g/cc		0.99			1	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH0411

Sampled: 08/02/06

Received: 08/03/06

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH0411

Sampled: 08/02/06

Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
ASTM	Water		
Displacement	Water		
EPA 160.2	Water	X	X
EPA 160.4	Water	N/A	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

PTS Labs-SUB

8100 Secura Way - Santa Fe Springs, CA 90670

Analysis Performed: Grainsize

Samples: IPH0411-01

TestAmerica - Irvine, CA

Michele Chamberlin

Project Manager

Michele Chamberlin

From: Eric S Tsai [Eric.S.Tsai@us.mwhglobal.com]
Sent: Tuesday, August 08, 2006 4:17 PM
To: Michele Chamberlin
Subject: Re: Grainsize water

Michele.

I am writing this email to formally request TestAmerica to perform Volatile Suspended Solids by EPA 160.4 and SSC for the PT-INF and PT-INF2 samples from from 8/2/06. Samples are to be analyzed August 9th with a 48-hour turnaround time.

Thanks.

Regards,

Eric Tsai

Eric Tsai, EIT
Associate Engineer
MWH, Pasadena
Phone: (626) 568-6277
Fax: (626) 568-6101
Eric.S.Tsai@Mwhglobal.com

"Michele Chamberlin" <mchamberlin@testamericainc.com>

"Michele Chamberlin" <mchamberlin@testamericainc.com>
To: "Eric S Tsai" <Eric.S.Tsai@us.mwhglobal.com>
cc
08/08/2006 10:10 AM Subject: Grainsize water

Hi Eric.

There is sample leftover from the grainsize analysis, so it will be returned to TestAmerica this afternoon. Regarding the analysis you are requesting, we are able to perform Volatile Suspended Solids by EPA 160.4, however, we do not perform Volatile Settleable Solids. Do you have a method reference for this analysis? Please send it to me if you do so that I can search for a lab to perform it.

Thanks,
Michele

Michele Chamberlin
Project Manager

IPAD (handwritten)

CHAIN OF CUSTODY FORM

Version 04/28/06

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing- NPDES/BMP Media Waste Characterization		ANALYSIS REQUIRED		Field readings: Temp = pH=	
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691		Grain Size		Comments	
Sampler: Eric Tsonis		Fax Number: (626) 568-6615		X			
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	
PT-INF	W			8/2/06 12:38	None		
Relinquished By <i>[Signature]</i>	Date/Time: 8/3/06 8:30 AM	Received By <i>[Signature]</i>	Date/Time: 8/3/06 1:50 PM	Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours <input checked="" type="checkbox"/> 10 Days _____ 72 Hours _____ Normal _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____			EX 2230
Relinquished By <i>[Signature]</i>	Date/Time: 8/3/06 8:55 AM	Received By <i>[Signature]</i>	Date/Time: 8/3/06 1:55 PM	Sample Integrity: (Check) Intact _____ On Ice: _____			
Relinquished By <i>[Signature]</i>	Date/Time: 8/3/06 8:55 AM	Received By <i>[Signature]</i>	Date/Time: 8/3/06 1:55 PM				

July 7, 2006

MWH
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101

Attention: Bronwyn Kelly

Project: Media Waste Characterization
Sampled: 08/02/06
TestAmerica Number: IPH0411

Dear Ms. Kelly:

PTS Laboratories performed the ASTM D4464M Grainsize analysis for the project referenced above. Please use the following cross-reference table when reviewing your results.

MWH ID	TestAmerica ID	PTS ID
PT-INF	IPH0411-01	36619

If you have any questions or require further assistance, please do not hesitate to contact me at (949) 261-1022, extension 215.

Sincerely yours,

TestAmerica



Michele Chamberlin
Project Manager

Enclosure

PARTICLE SIZE SUMMARY
(METHODOLOGY - ASTM D4464M)

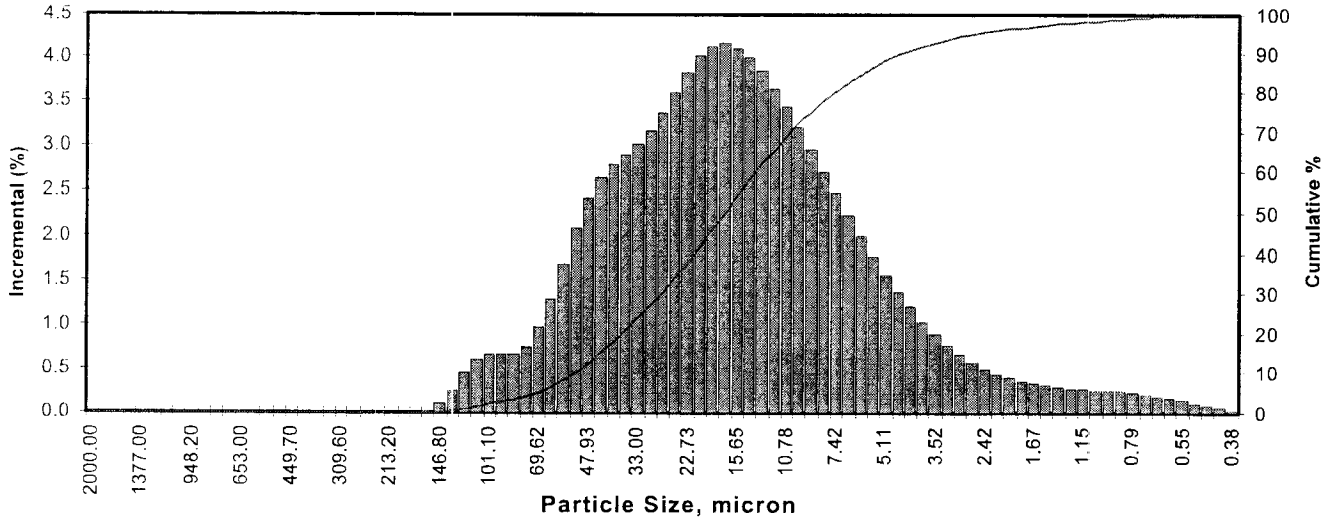
PROJECT NAME: N/A
PROJECT NO: IPH0411

Sample ID	Matrix	Median Grain Size, micron (1)	CUMULATIVE PERCENT GREATER THAN										
			5%	10%	16%	25%	40%	50%	60%	75%	84%	90%	95%
IPH0411-01	N/A	17.287	71.392	53.209	42.698	32.107	21.749	17.287	13.621	8.974	6.243	4.214	2.284

(1) Based on Trask Median
(2) Obscuration at 6% due to low concentration, optimal range between 8-11%.

Client: TestAmerica
 Project: N/A
 Project No: IPH0411

PTS File No: 36619
 Sample ID: IPH0411-01
 Matrix: N/A



Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution	
	Incremental percent	Cumulative percent		Incremental percent	Cumulative percent		Incremental percent	Cumulative percent
2000.00	0.00	0.0	52.63	2.09	10.2	1.385	0.300	97.5
1822.00	0.00	0.0	47.93	2.42	12.6	1.261	0.280	97.7
1660.00	0.00	0.0	43.66	2.65	15.3	1.149	0.270	98.0
1512.00	0.00	0.0	39.77	2.80	18.1	1.047	0.260	98.3
1377.00	0.00	0.0	36.24	2.90	21.0	0.953	0.250	98.5
1255.00	0.00	0.0	33.00	3.02	24.0	0.869	0.240	98.8
1143.00	0.00	0.0	30.07	3.17	27.2	0.791	0.230	99.0
1041.00	0.00	0.0	27.38	3.37	30.6	0.721	0.210	99.2
948.20	0.00	0.0	24.95	3.61	34.2	0.657	0.190	99.4
863.90	0.00	0.0	22.73	3.84	38.0	0.598	0.170	99.6
786.90	0.00	0.0	20.70	4.02	42.0	0.545	0.140	99.7
716.90	0.00	0.0	18.86	4.13	46.2	0.496	0.110	99.8
653.00	0.00	0.0	17.18	4.16	50.3	0.452	0.080	99.9
594.90	0.00	0.0	15.65	4.11	54.4	0.412	0.055	99.9
541.90	0.00	0.0	14.26	4.00	58.4	0.375	0.031	100.0
493.60	0.00	0.0	12.99	3.85	62.3	TOTALS:		99.97
449.70	0.00	0.0	11.83	3.65	65.9			100.0
409.60	0.00	0.0	10.78	3.43	69.4	Measure		Trask
373.10	0.00	0.0	9.82	3.20	72.6	Median, mm	0.0173	0.0173
339.80	0.00	0.0	8.94	2.96	75.5	Median, micron	17.287	17.287
309.60	0.00	0.0	8.15	2.71	78.2	Mean, mm	0.0205	0.0163
282.10	0.00	0.0	7.42	2.47	80.7	Mean, micron	20.540	16.326
256.80	0.00	0.0	6.76	2.23	82.9	Sorting	1.8915	1.387
234.10	0.00	0.0	6.16	2.00	84.9	Skewness	0.9819	0.059
213.20	0.00	0.0	5.61	1.78	86.7	Kurtosis	0.2361	0.790
194.20	0.00	0.0	5.11	1.57	88.3	Cumulative Percent greater than		
176.80	0.00	0.0	4.66	1.38	89.7	Distribution percent	Particle Size	
161.20	0.02	0.0	4.24	1.20	90.9		Micron	Millimeters
146.80	0.10	0.1	3.86	1.04	91.9	5	71.392	0.0714
133.70	0.26	0.4	3.52	0.90	92.8	10	53.209	0.0532
121.80	0.46	0.8	3.21	0.77	93.6	16	42.698	0.0427
111.00	0.60	1.4	2.92	0.67	94.2	25	32.107	0.0321
101.10	0.66	2.1	2.66	0.58	94.8	40	21.749	0.0217
92.09	0.66	2.8	2.42	0.50	95.3	50	17.287	0.0173
83.90	0.67	3.4	2.21	0.44	95.8	60	13.621	0.0136
76.43	0.76	4.2	2.01	0.40	96.2	75	8.974	0.0090
69.62	0.97	5.2	1.83	0.36	96.5	84	6.243	0.0062
63.41	1.29	6.4	1.67	0.33	96.8	90	4.214	0.0042
57.77	1.69	8.1	1.52	0.31	97.2	95	2.284	0.0023

36619

SUBCONTRACT ORDER - PROJECT # IPH0411

SENDING LABORATORY:	RECEIVING LABORATORY:
TestAmerica - Irvine, CA 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 260-3297 Project Manager: Michele Chamberlin	PTS Labs-SUB 8100 Secura Way Santa Fe Springs, CA 90670 Phone: (562) 907-3607 Fax: (562) 907-3610

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IPH0411-01 Water	Sampled: 08/02/06 12:38	
Grainsize	08/30/06 12:38	
Containers Supplied:		
1 gal Poly (IPH0411-01A)		

SAMPLE INTEGRITY:

All containers intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Sample labels/COC agree: <input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received On Ice: <input type="checkbox"/> Yes <input type="checkbox"/> No
Custody Seals Present: <input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Preserved Properly: <input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received at (temp): _____

<i>Eckman</i>	8-4-06	1000	<i>Ch - Ch</i>	8-4-06	1000
Released By	Date	Time	Received By	Date	Time
<i>Ch - Ch</i>	8-4-06	1300	<i>PTS</i>	8/4/06	13:09
Released By	Date	Time	Received By	Date	Time

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Media Waste Characterization

Sampled: 08/02/06
Received: 08/03/06
Revised: 08/10/06 17:31

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 5°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: The report was revised to add results for VSS and Sediment Concentration.

LABORATORY ID
IPH0412-01

CLIENT ID
PT-INF2

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH0412

Sampled: 08/02/06

Received: 08/03/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0412-01 (PT-INF2 - Water)									
Reporting Units: g/cc									
Density	Displacement	6H09146	N/A	NA	0.99	1	08/09/06	08/09/06	
Sample ID: IPH0412-01 (PT-INF2 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H10101	10	10	48	1	08/10/06	08/10/06	
Total Suspended Solids	EPA 160.2	6H08139	10	10	48	1	08/08/06	08/08/06	
Volatile Suspended Solids	EPA 160.4	6H08127	10	10	14	1	08/08/06	08/08/06	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization
 Report Number: IPH0412

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08127 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08127-BLK1)											
Volatile Suspended Solids	ND	10	10	mg/l							
Duplicate Analyzed: 08/08/2006 (6H08127-DUP1)											
Volatile Suspended Solids	2230	10	10	mg/l		2200			1	20	
Batch: 6H08139 Extracted: 08/08/06											
Blank Analyzed: 08/08/2006 (6H08139-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/08/2006 (6H08139-BS1)											
Total Suspended Solids	965	10	10	mg/l	1000		96	85-115			
Duplicate Analyzed: 08/08/2006 (6H08139-DUP1)											
Total Suspended Solids	164	10	10	mg/l		150			9	10	
Batch: 6H09146 Extracted: 08/09/06											
Duplicate Analyzed: 08/09/2006 (6H09146-DUP1)											
Density	0.995	NA	N/A	g/cc		0.99			1	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH0412

Sampled: 08/02/06

Received: 08/03/06

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH0412

Sampled: 08/02/06

Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
ASTM	Water		
Displacement	Water		
EPA 160.2	Water	X	X
EPA 160.4	Water	N/A	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

PTS Labs-SUB

8100 Secura Way - Santa Fe Springs, CA 90670

Analysis Performed: Grainsize

Samples: IPH0412-01

TestAmerica - Irvine, CA

Michele Chamberlin

Project Manager

ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 8/18/06 Del Mar Analytical Project Manager: MC

Request via: telephone chain of custody form fax transmission E-mail other

Client: mwh - Paw / Boeing Contact: Eric Tsai

Project: waste characterization

Date Sampled: 8/2/06 Date Received: 8/3/06

Status: in progress completed received today received yesterday on hold other

SAMPLE NUMBER	SAMPLE DESCRIPTION	ANALYSIS REQUESTED	SPECIAL REQUIREMENTS
<u>IPH0412-01</u>	<u>PT-INF2</u>	<u>VSS</u>	<u>Sediment Concentration.</u>
<u>-</u>	<u>Add-in to original workorder</u>	<u>due 8/10/06</u>	<u>-</u>

TURNAROUND STATUS: Same Day 24hr 48hr 3days due 8/10/06
 5days Standard No Rush Charge

Michele Chamberlin

From: Eric S Tsai [Eric.S.Tsai@us.mwhglobal.com]
Sent: Tuesday, August 08, 2006 4:17 PM
To: Michele Chamberlin
Subject: Re: Grainsize water

Michele.

I am writing this email to formally request TestAmerica to perform Volatile Suspended Solids by EPA 160.4 and SSC for the PT-INF and PT-INF2 samples from from 8/2/06. Samples are to be analyzed August 9th with a 48-hour turnaround time.

Thanks.

Regards,

Eric Tsai

Eric Tsai, EIT
Associate Engineer
MWH, Pasadena
Phone: (626) 568-6277
Fax: (626) 568-6101
Eric.S.Tsai@Mwhglobal.com

Re: "Michele Chamberlin" <mchamberlin@testamericainc.com>

"Michele Chamberlin" <mchamberlin@testamericainc.com>
To: "Eric S Tsai" <Eric.S.Tsai@us.mwhglobal.com>
cc
08/08/2006 10:10 AM Subject: Grainsize water

Hi Eric,
There is sample leftover from the grainsize analysis, so it will be returned to TestAmerica this afternoon. Regarding the analysis you are requesting, we are able to perform Volatile Suspended Solids by EPA 160.4, however, we do not perform Volatile Settleable Solids. Do you have a method reference for this analysis? Please send it to me if you do so that I can search for a lab to perform it.

Thanks,
Michele

Michele Chamberlin
Project Manager

1P110412

Del Mar Analytical

Version 04/28/06

CHAIN OF CUSTODY FORM

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing- NPDES/BMP Media Waste Characterization		ANALYSIS REQUIRED												Field readings: Temp = pH=				
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691		Preservative		Bottle #														Comments
Sampler: <i>Eric Tsai</i>		Fax Number: (626) 568-6515		None																
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Grain Size													
PT-INF2	W			8/2/06 12:42	None		X													
Relinquished By: <i>[Signature]</i>		Date/Time: 8/2/06 15:00		Received By: <i>[Signature]</i>		Date/Time: 8/3/06 15:20														Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours <input checked="" type="checkbox"/> 10 Days _____ 72 Hours _____ Normal _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____
Relinquished By: <i>[Signature]</i>		Date/Time: 8/2/06 18:55		Received By: <i>[Signature]</i>		Date/Time: 8/3/06 18:55														Sample Integrity: (Check) Intact <input checked="" type="checkbox"/> On Ice: _____

FR
2230

July 7, 2006

MWH
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101

Attention: Bronwyn Kelly

Project: Media Waste Characterization
Sampled: 08/02/06
TestAmerica Number: IPH0412

Dear Ms. Kelly:

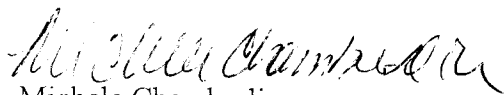
PTS Laboratories performed the ASTM D4464M Grainsize analysis for the project referenced above. Please use the following cross-reference table when reviewing your results.

MWH ID	TestAmerica ID	PTS ID
PT-INF2	IPH0412-01	36620

If you have any questions or require further assistance, please do not hesitate to contact me at (949) 261-1022, extension 215.

Sincerely yours,

TestAmerica



Michele Chamberlin
Project Manager

Enclosure

PARTICLE SIZE SUMMARY
(METHODOLOGY - ASTM D464M)

PROJECT NAME:
PROJECT NO:

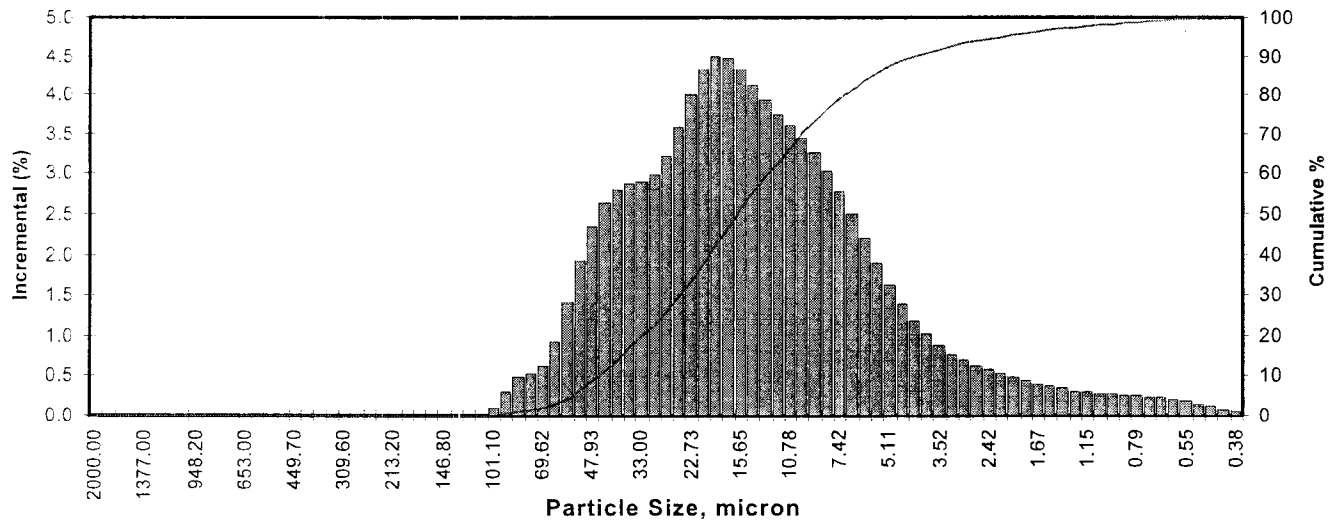
N/A
IPH0412

Sample ID	Matrix	Median Grain Size, micron (1)	CUMULATIVE PERCENT GREATER THAN										
			5%	10%	16%	25%	40%	50%	60%	75%	84%	90%	95%
IPH0412-01	N/A	16.070	56.547	45.793	37.408	28.426	19.853	16.070	12.682	8.454	5.904	3.824	2.119

(1) Based on Trask Median
(2) Obscuration at 7% due to low concentration, optimal range between 8-11%.

Client: Tes: America
 Project: N/A
 Project No: IPH 0412

PTS File No: 36620
 Sample ID: IPH0412-01
 Matrix: N/A



Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution	
	Incremental percent	Cumulative percent		Incremental percent	Cumulative percent		Incremental percent	Cumulative percent
2000.00	0.00	0.0	52.63	1.92	6.3	1.385	0.340	97.1
1822.00	0.00	0.0	47.93	2.34	8.6	1.261	0.310	97.4
1660.00	0.00	0.0	43.66	2.63	11.3	1.149	0.290	97.7
1512.00	0.00	0.0	39.77	2.80	14.1	1.047	0.280	98.0
1377.00	0.00	0.0	36.24	2.87	16.9	0.953	0.270	98.2
1255.00	0.00	0.0	33.00	2.90	19.8	0.869	0.260	98.5
1143.00	0.00	0.0	30.07	2.98	22.8	0.791	0.260	98.8
1041.00	0.00	0.0	27.38	3.22	26.0	0.721	0.240	99.0
948.20	0.00	0.0	24.95	3.59	29.6	0.657	0.230	99.2
863.90	0.00	0.0	22.73	4.00	33.6	0.598	0.210	99.4
786.90	0.00	0.0	20.70	4.34	38.0	0.545	0.180	99.6
716.90	0.00	0.0	18.86	4.49	42.5	0.496	0.150	99.8
653.00	0.00	0.0	17.18	4.47	46.9	0.452	0.110	99.9
594.90	0.00	0.0	15.65	4.32	51.3	0.412	0.068	100.0
541.90	0.00	0.0	14.26	4.12	55.4	0.375	0.036	100.0
493.60	0.00	0.0	12.99	3.93	59.3	TOTALS: 99.99 100.0		
449.70	0.00	0.0	11.83	3.76	63.1	Measure Trask Inman		
409.60	0.00	0.0	10.78	3.61	66.7	Median, mm	0.0161	0.0161
373.10	0.00	0.0	9.82	3.46	70.1	Median, micron	16.070	16.070
339.80	0.00	0.0	8.94	3.27	73.4	Mean, mm	0.0184	0.0149
309.60	0.00	0.0	8.15	3.04	76.4	Mean, micron	18.440	14.862
282.10	0.00	0.0	7.42	2.77	79.2	Sorting	1.8337	1.332
256.80	0.00	0.0	6.76	2.49	81.7	Skewness	0.9647	0.085
234.10	0.00	0.0	6.16	2.19	83.9	Kurtosis	0.2379	0.779
213.20	0.00	0.0	5.61	1.89	85.8	Cumulative Percent greater than		
194.20	0.00	0.0	5.11	1.62	87.4	Distribution percent	Particle Size	
176.80	0.00	0.0	4.66	1.38	88.8		Micron	Millimeters
161.20	0.00	0.0	4.24	1.17	90.0	5	56.547	0.0565
146.80	0.00	0.0	3.86	1.01	91.0	10	45.793	0.0458
133.70	0.00	0.0	3.52	0.88	91.8	16	37.408	0.0374
121.80	0.00	0.0	3.21	0.77	92.6	25	28.426	0.0284
111.00	0.00	0.0	2.92	0.70	93.3	40	19.853	0.0199
101.10	0.08	0.1	2.66	0.63	93.9	50	16.070	0.0161
92.09	0.31	0.4	2.42	0.58	94.5	60	12.682	0.0127
83.90	0.49	0.9	2.21	0.53	95.1	75	8.454	0.0085
76.43	0.53	1.4	2.01	0.49	95.5	84	5.904	0.0059
69.62	0.63	2.0	1.83	0.44	96.0	90	3.824	0.0038
63.41	0.93	3.0	1.67	0.40	96.4	95	2.119	0.0021
57.77	1.41	4.4	1.52	0.37	96.8			

36620

SUBCONTRACT ORDER - PROJECT # IPH0412

SENDING LABORATORY:	RECEIVING LABORATORY:
TestAmerica - Irvine, CA 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 260-3297 Project Manager: Michele Chamberlin	PTS Labs-SUB 8100 Secura Way Santa Fe Springs, CA 90670 Phone: (562) 907-3607 Fax: (562) 907-3610

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
✓ Sample ID: IPH0412-01 Water Grainsize	Sampled: 08/02/06 12:42 08/30/06 12:42	
Containers Supplied: 1 gal Poly (IPH0412-01A)		

SAMPLE INTEGRITY:					
All containers intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Sample labels/COC agree:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received On Ice:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Preserved Properly:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received at (temp):	_____

<i>Edman</i>	<i>8-4-06</i>	<i>1000</i>	<i>Cal. U</i>	<i>8-4-06</i>	<i>1000</i>
Released By	Date	Time	Received By	Date	Time
<i>Cal. U</i>	<i>8-4-06</i>		<i>PTS</i>	<i>8/4/06</i>	<i>13:09</i>
Released By	Date	Time	Received By	Date	Time

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Media Waste Characterization

Sampled: 08/09/06-08/10/06
Received: 08/10/06
Revised: 08/15/06 18:49

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: Enclosed are complete final results. The report was revised to include estimated Grainsize results.

LABORATORY ID	CLIENT ID	MATRIX
IPH1139-01	PT-INF (8/9/06)	Water
IPH1139-02	PT-INF2 (8/9/06)	Water
IPH1139-03	PT-INF (8/10/06)	Water
IPH1139-04	PT-INF2 (8/10/06)	Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH1139

Sampled: 08/09/06-08/10/06
 Received: 08/10/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1139-01 (PT-INF (8/9/06) - Water)					Sampled: 08/09/06				
Reporting Units: g/cc									
Density	Displacement	6H14091	N/A	NA	1.0	1	08/14/06	08/14/06	
Sample ID: IPH1139-02 (PT-INF2 (8/9/06) - Water)					Sampled: 08/09/06				
Reporting Units: g/cc									
Density	Displacement	6H14091	N/A	NA	1.0	1	08/14/06	08/14/06	
Sample ID: IPH1139-03 (PT-INF (8/10/06) - Water)					Sampled: 08/10/06				
Reporting Units: g/cc									
Density	Displacement	6H14091	N/A	NA	1.0	1	08/14/06	08/14/06	
Sample ID: IPH1139-04 (PT-INF2 (8/10/06) - Water)					Sampled: 08/10/06				
Reporting Units: g/cc									
Density	Displacement	6H14091	N/A	NA	1.0	1	08/14/06	08/14/06	
Sample ID: IPH1139-01 (PT-INF (8/9/06) - Water)					Sampled: 08/09/06				
Reporting Units: mg/l									
Sediment	ASTM D3977	6H14118	10	10	ND	1	08/14/06	08/14/06	
Total Suspended Solids	EPA 160.2	6H11121	10	10	ND	1	08/11/06	08/11/06	
Volatile Suspended Solids	EPA 160.4	6H11122	10	10	ND	1	08/11/06	08/11/06	
Sample ID: IPH1139-02 (PT-INF2 (8/9/06) - Water)					Sampled: 08/09/06				
Reporting Units: mg/l									
Sediment	ASTM D3977	6H14118	10	10	20	1	08/14/06	08/14/06	
Total Suspended Solids	EPA 160.2	6H11121	10	10	20	1	08/11/06	08/11/06	
Volatile Suspended Solids	EPA 160.4	6H11122	10	10	10	1	08/11/06	08/11/06	
Sample ID: IPH1139-03 (PT-INF (8/10/06) - Water)					Sampled: 08/10/06				
Reporting Units: mg/l									
Sediment	ASTM D3977	6H14118	10	10	12	1	08/14/06	08/14/06	
Total Suspended Solids	EPA 160.2	6H11121	10	10	12	1	08/11/06	08/11/06	
Volatile Suspended Solids	EPA 160.4	6H11122	10	10	ND	1	08/11/06	08/11/06	
Sample ID: IPH1139-04 (PT-INF2 (8/10/06) - Water)					Sampled: 08/10/06				
Reporting Units: mg/l									
Sediment	ASTM D3977	6H14118	10	10	31	1	08/14/06	08/14/06	
Total Suspended Solids	EPA 160.2	6H11121	10	10	31	1	08/11/06	08/11/06	
Volatile Suspended Solids	EPA 160.4	6H11122	10	10	12	1	08/11/06	08/11/06	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization
 Report Number: IPH1139

Sampled: 08/09/06-08/10/06
 Received: 08/10/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H1121 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H1121-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 08/11/2006 (6H1121-BS1)											
Total Suspended Solids	967	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 08/11/2006 (6H1121-DUP1)											
Total Suspended Solids	ND	10	10	mg/l		Source: IPH1139-01 ND				10	
Batch: 6H1122 Extracted: 08/11/06											
Blank Analyzed: 08/11/2006 (6H1122-BLK1)											
Volatile Suspended Solids	ND	10	10	mg/l							
Duplicate Analyzed: 08/11/2006 (6H1122-DUP1)											
Volatile Suspended Solids	ND	10	10	mg/l		Source: IPH1139-01 ND				20	
Batch: 6H14091 Extracted: 08/14/06											
Duplicate Analyzed: 08/14/2006 (6H14091-DUP1)											
Density	0.998	NA	N/A	g/cc		Source: IPH1138-01 1.0			0	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH1139

Sampled: 08/09/06-08/10/06
Received: 08/10/06

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH1139

Sampled: 08/09/06-08/10/06
Received: 08/10/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
ASTM	Water		
Displacement	Water		
EPA 160.2	Water	X	X
EPA 160.4	Water	N/A	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

PTS Labs-SUB

8100 Secura Way - Santa Fe Springs, CA 90670

Analysis Performed: Grainsize

Samples: IPH1139-01, IPH1139-02, IPH1139-03, IPH1139-04

TestAmerica - Irvine, CA

Michele Chamberlin
Project Manager

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D4464M)

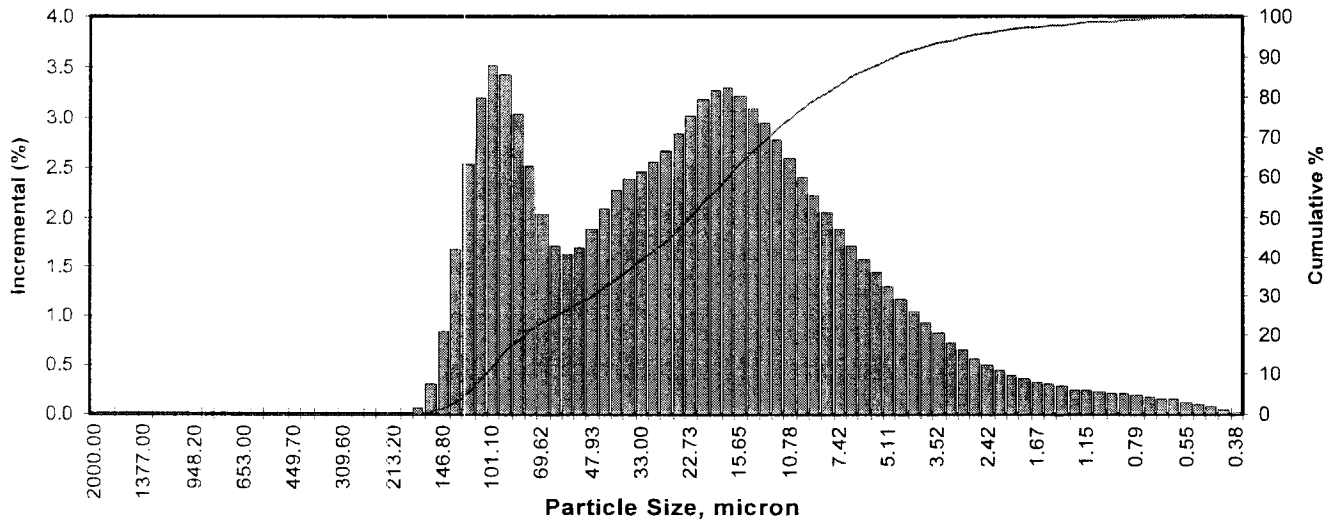
PROJECT NAME: N/A
PROJECT NO: IPH1139

Sample ID	Matrix	Median Grain Size, micron (1)	CUMULATIVE PERCENT GREATER THAN										
			5%	10%	16%	25%	40%	50%	60%	75%	84%	90%	95%
IPH1139-01	Aqueous	23.118	124.000	107.325	90.756	63.008	32.310	23.118	17.257	10.662	7.085	4.827	2.477
IPH1139-02	Aqueous	13.685	39.722	33.531	28.387	22.908	16.860	13.685	11.031	7.161	5.062	3.108	2.044
IPH1139-03	Aqueous	14.334	45.934	38.800	32.392	25.278	17.945	14.334	11.340	7.275	5.094	3.134	2.052
IPH1139-04	Aqueous	13.638	41.439	35.516	30.290	24.148	17.153	13.638	10.743	6.824	4.735	2.984	2.031

(1) Based on Trask Median
(2) Obscuration between 4% and 6% due to low concentration, optimal range between 8-11%.

Client: Test America
Project: N/A
Project No: IPH1139

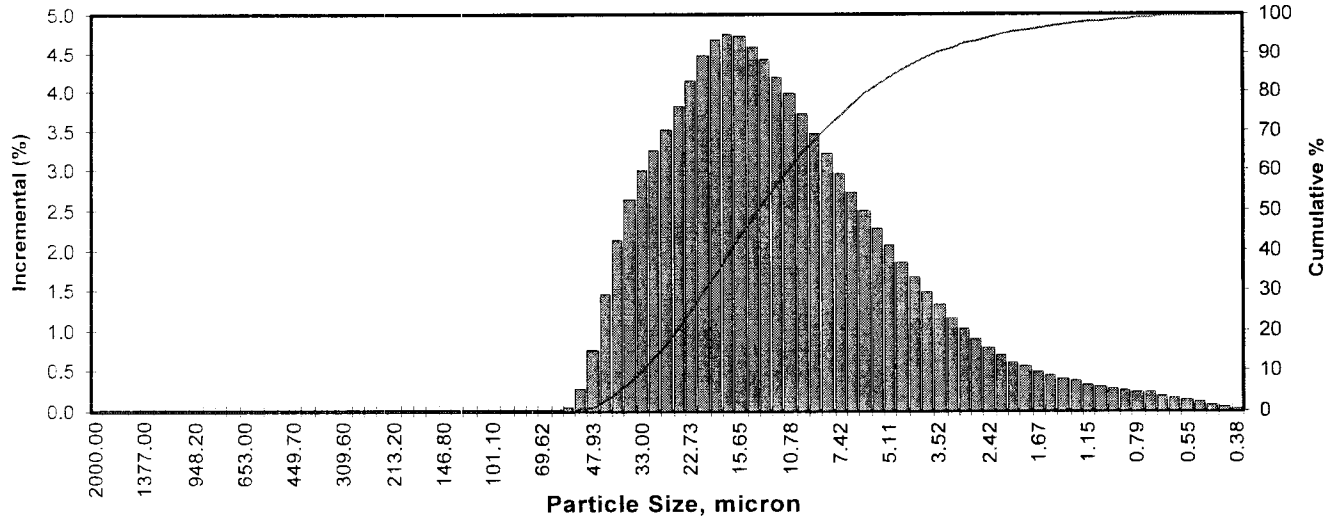
PTS File No: 36657
Sample ID: IPH1139-01
Matrix: Aqueous



Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution	
	Incremental percent	Cumulative percent		Incremental percent	Cumulative percent		Incremental percent	Cumulative percent
2000.00	0.00	0.0	52.63	1.71	28.2	1.385	0.270	97.9
1822.00	0.00	0.0	47.93	1.89	30.1	1.261	0.250	98.2
1660.00	0.00	0.0	43.66	2.10	32.2	1.149	0.240	98.4
1512.00	0.00	0.0	39.77	2.28	34.5	1.047	0.220	98.6
1377.00	0.00	0.0	36.24	2.39	36.9	0.953	0.210	98.8
1255.00	0.00	0.0	33.00	2.47	39.3	0.869	0.200	99.0
1143.00	0.00	0.0	30.07	2.55	41.9	0.791	0.190	99.2
1041.00	0.00	0.0	27.38	2.67	44.6	0.721	0.170	99.4
948.20	0.00	0.0	24.95	2.84	47.4	0.657	0.150	99.5
863.90	0.00	0.0	22.73	3.02	50.4	0.598	0.140	99.7
786.90	0.00	0.0	20.70	3.18	53.6	0.545	0.120	99.8
716.90	0.00	0.0	18.86	3.28	56.9	0.496	0.093	99.9
653.00	0.00	0.0	17.18	3.29	60.2	0.452	0.065	100.0
594.90	0.00	0.0	15.65	3.22	63.4	0.412	0.044	100.0
541.90	0.00	0.0	14.26	3.10	66.5	0.375	0.025	100.0
493.60	0.00	0.0	12.99	2.95	69.4	TOTALS: 100.02 100.0		
449.70	0.00	0.0	11.83	2.78	72.2	Measure Trask Inman		
409.60	0.00	0.0	10.78	2.59	74.8	Median, mm	0.0231	0.0231
373.10	0.00	0.0	9.82	2.41	77.2	Median, micron	23.118	23.118
339.80	0.00	0.0	8.94	2.23	79.5	Mean, mm	0.0368	0.0254
309.60	0.00	0.0	8.15	2.06	81.5	Mean, micron	36.835	25.357
282.10	0.00	0.0	7.42	1.89	83.4	Sorting	2.4310	1.840
256.80	0.00	0.0	6.76	1.73	85.1	Skewness	1.1212	-0.072
234.10	0.00	0.0	6.16	1.58	86.7	Kurtosis	0.2554	0.534
213.20	0.00	0.0	5.61	1.44	88.2	Cumulative Percent greater than		
194.20	0.00	0.0	5.11	1.30	89.5	Distribution percent	Particle Size	
176.80	0.05	0.1	4.66	1.17	90.6		Micron	Millimeters
161.20	0.29	0.3	4.24	1.04	91.7	5	124.000	0.1240
146.80	0.84	1.2	3.86	0.93	92.6	10	107.325	0.1073
133.70	1.68	2.9	3.52	0.82	93.4	16	90.756	0.0908
121.80	2.54	5.4	3.21	0.73	94.1	25	63.008	0.0630
111.00	3.21	8.6	2.92	0.64	94.8	40	32.310	0.0323
101.10	3.52	12.1	2.66	0.56	95.3	50	23.118	0.0231
92.09	3.43	15.6	2.42	0.50	95.8	60	17.257	0.0173
83.90	3.03	18.6	2.21	0.44	96.3	75	10.662	0.0107
76.43	2.51	21.1	2.01	0.39	96.7	84	7.085	0.0071
69.62	2.04	23.1	1.83	0.35	97.0	90	4.827	0.0048
63.41	1.73	24.9	1.67	0.32	97.3	95	2.477	0.0025
57.77	1.63	26.5	1.52	0.29	97.6			

Client: Test America
 Project: N/A
 Project No: IPH1139

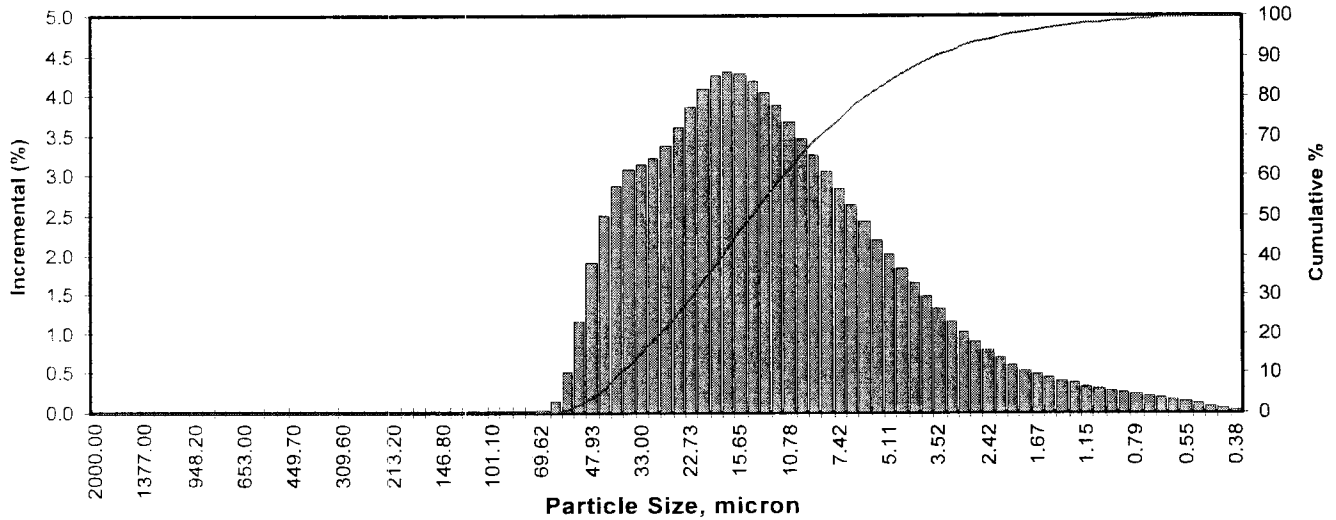
PTS File No: 36657
 Sample ID: IPH1139-02
 Matrix: Aqueous



Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution	
	Incremental percent	Cumulative percent		Incremental percent	Cumulative percent		Incremental percent	Cumulative percent
2000.00	0.00	0.0	52.63	0.27	0.3	1.385	0.390	97.2
1822.00	0.00	0.0	47.93	0.77	1.1	1.261	0.360	97.6
1660.00	0.00	0.0	43.66	1.46	2.6	1.149	0.330	97.9
1512.00	0.00	0.0	39.77	2.13	4.7	1.047	0.300	98.2
1377.00	0.00	0.0	36.24	2.65	7.3	0.953	0.280	98.5
1255.00	0.00	0.0	33.00	3.01	10.3	0.869	0.260	98.8
1143.00	0.00	0.0	30.07	3.27	13.6	0.791	0.240	99.0
1041.00	0.00	0.0	27.38	3.52	17.1	0.721	0.220	99.2
948.20	0.00	0.0	24.95	3.82	21.0	0.657	0.190	99.4
863.90	0.00	0.0	22.73	4.15	25.1	0.598	0.170	99.6
786.90	0.00	0.0	20.70	4.46	29.6	0.545	0.140	99.7
716.90	0.00	0.0	18.86	4.67	34.2	0.496	0.110	99.8
653.00	0.00	0.0	17.18	4.75	39.0	0.452	0.079	99.9
594.90	0.00	0.0	15.65	4.72	43.7	0.412	0.053	100.0
541.90	0.00	0.0	14.26	4.59	48.3	0.375	0.030	100.0
493.60	0.00	0.0	12.99	4.42	52.7	TOTALS: 99.99 100.0		
449.70	0.00	0.0	11.83	4.20	56.9	Measure Trask Inman		
409.60	0.00	0.0	10.78	3.97	60.9	Median, mm	0.0137	0.0137
373.10	0.00	0.0	9.82	3.72	64.6	Median, micron	13.685	13.685
339.80	0.00	0.0	8.94	3.47	68.1	Mean, mm	0.0150	0.0120
309.60	0.00	0.0	8.15	3.22	71.3	Mean, micron	15.035	11.987
282.10	0.00	0.0	7.42	2.97	74.3	Sorting	1.7886	1.244
256.80	0.00	0.0	6.76	2.74	77.0	Skewness	0.9359	0.154
234.10	0.00	0.0	6.16	2.50	79.5	Kurtosis	0.2588	0.721
213.20	0.00	0.0	5.61	2.28	81.8	Cumulative Percent greater than		
194.20	0.00	0.0	5.11	2.06	83.8	Distribution percent	Particle Size	
176.80	0.00	0.0	4.66	1.86	85.7		Micron	Millimeters
161.20	0.00	0.0	4.24	1.67	87.4	5	39.722	0.0397
146.80	0.00	0.0	3.86	1.48	88.9	10	33.531	0.0335
133.70	0.00	0.0	3.52	1.32	90.2	16	28.387	0.0284
121.80	0.00	0.0	3.21	1.16	91.3	25	22.908	0.0229
111.00	0.00	0.0	2.92	1.03	92.4	40	16.860	0.0169
101.10	0.00	0.0	2.66	0.90	93.3	50	13.685	0.0137
92.09	0.00	0.0	2.42	0.79	94.1	60	11.031	0.0110
83.90	0.00	0.0	2.21	0.70	94.8	75	7.161	0.0072
76.43	0.00	0.0	2.01	0.61	95.4	84	5.062	0.0051
69.62	0.00	0.0	1.83	0.55	95.9	90	3.108	0.0031
63.41	0.00	0.0	1.67	0.49	96.4	95	2.044	0.0020
57.77	0.05	0.1	1.52	0.44	96.8			

Client: Test America
 Project: N/A
 Project No: IPH1139

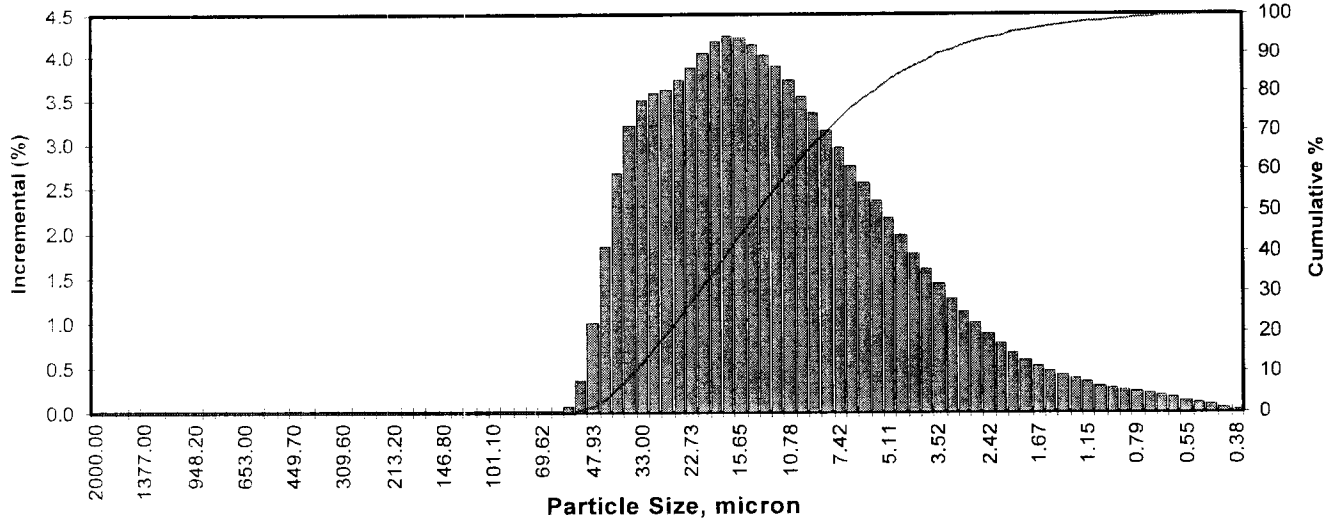
PTS File No: 36657
 Sample ID: IPH1139-03
 Matrix: Aqueous



Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution	
	Incremental percent	Cumulative percent		Incremental percent	Cumulative percent		Incremental percent	Cumulative percent
2000.00	0.00	0.0	52.63	1.16	1.8	1.385	0.390	97.3
1822.00	0.00	0.0	47.93	1.89	3.7	1.261	0.360	97.6
1660.00	0.00	0.0	43.66	2.50	6.2	1.149	0.330	98.0
1512.00	0.00	0.0	39.77	2.88	9.1	1.047	0.300	98.3
1377.00	0.00	0.0	36.24	3.07	12.2	0.953	0.280	98.5
1255.00	0.00	0.0	33.00	3.14	15.3	0.869	0.260	98.8
1143.00	0.00	0.0	30.07	3.22	18.5	0.791	0.240	99.0
1041.00	0.00	0.0	27.38	3.37	21.9	0.721	0.210	99.2
948.20	0.00	0.0	24.95	3.60	25.5	0.657	0.190	99.4
863.90	0.00	0.0	22.73	3.86	29.4	0.598	0.170	99.6
786.90	0.00	0.0	20.70	4.09	33.5	0.545	0.140	99.7
716.90	0.00	0.0	18.86	4.25	37.7	0.496	0.110	99.9
653.00	0.00	0.0	17.18	4.30	42.0	0.452	0.079	99.9
594.90	0.00	0.0	15.65	4.28	46.3	0.412	0.054	100.0
541.90	0.00	0.0	14.26	4.19	50.5	0.375	0.030	100.0
493.60	0.00	0.0	12.99	4.05	54.5	TOTALS: 100.02 100.0		
449.70	0.00	0.0	11.83	3.88	58.4	Measure Trask Inman		
409.60	0.00	0.0	10.78	3.69	62.1	Median, mm	0.0143	0.0143
373.10	0.00	0.0	9.82	3.48	65.6	Median, micron	14.334	14.334
339.80	0.00	0.0	8.94	3.27	68.8	Mean, mm	0.0163	0.0128
309.60	0.00	0.0	8.15	3.05	71.9	Mean, micron	16.277	12.846
282.10	0.00	0.0	7.42	2.84	74.7	Sorting	1.8640	1.334
256.80	0.00	0.0	6.76	2.63	77.4	Skewness	0.9461	0.119
234.10	0.00	0.0	6.16	2.42	79.8	Kurtosis	0.2524	0.680
213.20	0.00	0.0	5.61	2.21	82.0	Cumulative Percent greater than		
194.20	0.00	0.0	5.11	2.02	84.0	Distribution percent	Particle Size	
176.80	0.00	0.0	4.66	1.82	85.8		Micron	Millimeters
161.20	0.00	0.0	4.24	1.64	87.5	5	45.934	0.0459
146.80	0.00	0.0	3.86	1.47	88.9	10	38.800	0.0388
133.70	0.00	0.0	3.52	1.31	90.3	16	32.392	0.0324
121.80	0.00	0.0	3.21	1.16	91.4	25	25.278	0.0253
111.00	0.00	0.0	2.92	1.02	92.4	40	17.945	0.0179
101.10	0.00	0.0	2.66	0.90	93.3	50	14.334	0.0143
92.09	0.00	0.0	2.42	0.79	94.1	60	11.340	0.0113
83.90	0.00	0.0	2.21	0.69	94.8	75	7.275	0.0073
76.43	0.00	0.0	2.01	0.61	95.4	84	5.094	0.0051
69.62	0.02	0.0	1.83	0.54	96.0	90	3.134	0.0031
63.41	0.14	0.2	1.67	0.48	96.4	95	2.052	0.0021
57.77	0.52	0.7	1.52	0.43	96.9			

Client: Test America
 Project: N/A
 Project No: IPH1139

PTS File No: 36657
 Sample ID: IPH1139-04
 Matrix: Aqueous



Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution		Particle Diameter, micron	Particle Distribution	
	Incremental percent	Cumulative percent		Incremental percent	Cumulative percent		Incremental percent	Cumulative percent
2000.00	0.00	0.0	52.63	0.35	0.4	1.385	0.410	97.3
1822.00	0.00	0.0	47.93	0.99	1.4	1.261	0.370	97.7
1660.00	0.00	0.0	43.66	1.86	3.3	1.149	0.330	98.0
1512.00	0.00	0.0	39.77	2.66	5.9	1.047	0.300	98.3
1377.00	0.00	0.0	36.24	3.21	9.1	0.953	0.280	98.6
1255.00	0.00	0.0	33.00	3.49	12.6	0.869	0.250	98.8
1143.00	0.00	0.0	30.07	3.59	16.2	0.791	0.230	99.1
1041.00	0.00	0.0	27.38	3.63	19.8	0.721	0.210	99.3
948.20	0.00	0.0	24.95	3.72	23.6	0.657	0.180	99.4
863.90	0.00	0.0	22.73	3.87	27.4	0.598	0.160	99.6
786.90	0.00	0.0	20.70	4.05	31.5	0.545	0.130	99.7
716.90	0.00	0.0	18.86	4.19	35.7	0.496	0.110	99.8
653.00	0.00	0.0	17.18	4.25	39.9	0.452	0.075	99.9
594.90	0.00	0.0	15.65	4.23	44.2	0.412	0.051	100.0
541.90	0.00	0.0	14.26	4.15	48.3	0.375	0.028	100.0
493.60	0.00	0.0	12.99	4.03	52.3	TOTALS: 100.00 100.0		
449.70	0.00	0.0	11.83	3.89	56.2	Measure Trask Inman		
409.60	0.00	0.0	10.78	3.73	60.0	Median, mm	0.0136	0.0136
373.10	0.00	0.0	9.82	3.54	63.5	Median, micron	13.638	13.638
339.80	0.00	0.0	8.94	3.35	66.8	Mean, mm	0.0155	0.0120
309.60	0.00	0.0	8.15	3.15	70.0	Mean, micron	15.486	11.976
282.10	0.00	0.0	7.42	2.96	73.0	Sorting	1.8811	1.339
256.80	0.00	0.0	6.76	2.76	75.7	Skewness	0.9413	0.140
234.10	0.00	0.0	6.16	2.56	78.3	Kurtosis	0.2663	0.625
213.20	0.00	0.0	5.61	2.36	80.6	Cumulative Percent greater than		
194.20	0.00	0.0	5.11	2.16	82.8	Distribution percent	Particle Size	
176.80	0.00	0.0	4.66	1.97	84.8		Micron	Millimeters
161.20	0.00	0.0	4.24	1.78	86.5	5	41.439	0.0414
146.80	0.00	0.0	3.86	1.61	88.2	10	35.516	0.0355
133.70	0.00	0.0	3.52	1.44	89.6	16	30.290	0.0303
121.80	0.00	0.0	3.21	1.28	90.9	25	24.148	0.0241
111.00	0.00	0.0	2.92	1.13	92.0	40	17.153	0.0172
101.10	0.00	0.0	2.66	1.00	93.0	50	13.638	0.0136
92.09	0.00	0.0	2.42	0.87	93.9	60	10.743	0.0107
83.90	0.00	0.0	2.21	0.77	94.6	75	6.824	0.0068
76.43	0.00	0.0	2.01	0.67	95.3	84	4.735	0.0047
69.62	0.00	0.0	1.83	0.59	95.9	90	2.984	0.0030
63.41	0.00	0.0	1.67	0.52	96.4	95	2.031	0.0020
57.77	0.06	0.1	1.52	0.46	96.9			

36657

SUBCONTRACT ORDER - PROJECT # IPH1139

SENDING LABORATORY:	RECEIVING LABORATORY:
TestAmerica - Irvine, CA 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 260-3297 Project Manager: Michele Chamberlin	PTS Labs-SUB 8100 Secura Way Santa Fe Springs, CA 90670 Phone: (562) 907-3607 Fax: (562) 907-3610

Standard TAT is requested unless specific due date is requested => Due Date: 48 hr TAT Initials: _____

Analysis	Expiration	Comments
Sample ID: IPH1139-01 Water Grainsize	Sampled: 08/09/06 14:18 09/06/06 14:18	sub to PTS
✓ Containers Supplied: 1 gal Poly (IPH1139-01A)		
Sample ID: IPH1139-02 Water Grainsize	Sampled: 08/09/06 14:18 09/06/06 14:18	sub to PTS
✓ Containers Supplied: 1 gal Poly (IPH1139-02A)		
Sample ID: IPH1139-03 Water Grainsize	Sampled: 08/10/06 09:21 09/07/06 09:21	sub to PTS
✓ Containers Supplied: 1 gal Poly (IPH1139-03A)		
Sample ID: IPH1139-04 Water Grainsize	Sampled: 08/10/06 09:19 09/07/06 09:19	sub to PTS
✓ Containers Supplied: 1 gal Poly (IPH1139-04A)		

SAMPLE INTEGRITY:					
All containers intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Sample labels/COC agree:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received On Ice:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Preserved Properly:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received at (temp):	_____

Released By		8/11/06	9:30	Received By		8-11-06	9:30
Released By		8-11-06	11:40	Received By		8-11-06	11:40

HAZARDOUS WASTE CHARACTERIZATION DATA

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Waste Characterization
Media Waste Characterization

Sampled: 08/21/06
Received: 08/24/06
Issued: 09/16/06 15:50

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IPH2715-01	S-WC	Soil
IPH2715-02	V-WC	Soil
IPH2715-03	P-WC	Soil
IPH2715-04	PM-P-WC	Soil

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH2715

Sampled: 08/21/06
 Received: 08/24/06

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH2715-02 (V-WC - Soil)								
Reporting Units: mg/kg								
Antimony	EPA 6010B	6H28083	10	ND	1.01	8/28/2006	9/5/2006	
Arsenic	EPA 6010B	6H28083	2.0	ND	1.01	8/28/2006	9/5/2006	
Barium	EPA 6010B	6H28083	1.0	73	1.01	8/28/2006	9/5/2006	
Beryllium	EPA 6010B	6H28083	0.50	ND	1.01	8/28/2006	9/5/2006	
Cadmium	EPA 6010B	6H28083	0.50	ND	1.01	8/28/2006	9/5/2006	
Chromium	EPA 6010B	6H28083	1.0	28	1.01	8/28/2006	9/5/2006	
Cobalt	EPA 6010B	6H28083	1.0	7.5	1.01	8/28/2006	9/5/2006	
Copper	EPA 6010B	6H28083	2.0	11	1.01	8/28/2006	9/5/2006	
Lead	EPA 6010B	6H28083	2.0	6.2	1.01	8/28/2006	9/5/2006	
Mercury	EPA 7471A	6H29047	0.020	0.043	0.98	8/29/2006	8/29/2006	
Molybdenum	EPA 6010B	6H28083	2.0	ND	1.01	8/28/2006	9/5/2006	
Nickel	EPA 6010B	6H28083	2.0	18	1.01	8/28/2006	9/5/2006	
Selenium	EPA 6010B	6H28083	2.0	ND	1.01	8/28/2006	9/5/2006	
Silver	EPA 6010B	6H28083	1.0	1.1	1.01	8/28/2006	9/5/2006	
Thallium	EPA 6010B	6H28083	10	ND	1.01	8/28/2006	9/5/2006	
Vanadium	EPA 6010B	6H28083	1.0	21	1.01	8/28/2006	9/5/2006	
Zinc	EPA 6010B	6H28083	5.0	77	1.01	8/28/2006	9/5/2006	

Sample ID: IPH2715-03 (P-WC - Soil)

Reporting Units: mg/kg

Antimony	EPA 6010B	6H28083	10	ND	1.01	8/28/2006	9/5/2006	
Arsenic	EPA 6010B	6H28083	2.0	ND	1.01	8/28/2006	9/5/2006	
Barium	EPA 6010B	6H28083	1.0	16	1.01	8/28/2006	9/5/2006	
Beryllium	EPA 6010B	6H28083	0.50	ND	1.01	8/28/2006	9/5/2006	
Cadmium	EPA 6010B	6H28083	0.50	ND	1.01	8/28/2006	9/5/2006	
Chromium	EPA 6010B	6H28083	1.0	3.1	1.01	8/28/2006	9/5/2006	
Cobalt	EPA 6010B	6H28083	1.0	ND	1.01	8/28/2006	9/5/2006	
Copper	EPA 6010B	6H28083	2.0	2.7	1.01	8/28/2006	9/5/2006	
Lead	EPA 6010B	6H28083	2.0	2.4	1.01	8/28/2006	9/5/2006	
Mercury	EPA 7471A	6H29047	0.020	ND	1	8/29/2006	8/29/2006	
Molybdenum	EPA 6010B	6H28083	2.0	ND	1.01	8/28/2006	9/5/2006	
Nickel	EPA 6010B	6H28083	2.0	2.1	1.01	8/28/2006	9/5/2006	
Selenium	EPA 6010B	6H28083	2.0	ND	1.01	8/28/2006	9/5/2006	
Silver	EPA 6010B	6H28083	1.0	ND	1.01	8/28/2006	9/5/2006	
Thallium	EPA 6010B	6H28083	10	ND	1.01	8/28/2006	9/5/2006	
Vanadium	EPA 6010B	6H28083	1.0	6.7	1.01	8/28/2006	9/5/2006	
Zinc	EPA 6010B	6H28083	5.0	20	1.01	8/28/2006	9/5/2006	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH2715

Sampled: 08/21/06
 Received: 08/24/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH2715-01 (S-WC - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6101114	0.10	22	1	9/1/2006	9/5/2006	
Sample ID: IPH2715-02 (V-WC - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6101114	0.10	76	1	9/1/2006	9/5/2006	
Sample ID: IPH2715-03 (P-WC - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6101114	0.10	77	1	9/1/2006	9/5/2006	
Sample ID: IPH2715-04 (PM-P-WC - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6101114	0.10	83	1	9/1/2006	9/5/2006	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH2715

Sampled: 08/21/06
 Received: 08/24/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H28083 Extracted: 08/28/06										
Blank Analyzed: 08/28/2006 (6H28083-BLK1)										
Antimony	ND	10	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	0.50	mg/kg							
Cadmium	ND	0.50	mg/kg							
Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Selenium	ND	2.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	5.0	mg/kg							
LCS Analyzed: 08/28/2006 (6H28083-BS1)										
Antimony	45.7	10	mg/kg	50.0		91	80-120			
Arsenic	44.7	2.0	mg/kg	50.0		89	80-120			
Barium	45.0	1.0	mg/kg	50.0		90	80-120			
Beryllium	46.1	0.50	mg/kg	50.0		92	80-120			
Cadmium	43.9	0.50	mg/kg	50.0		88	80-120			
Chromium	46.1	1.0	mg/kg	50.0		92	80-120			
Cobalt	45.6	1.0	mg/kg	50.0		91	80-120			
Copper	45.6	2.0	mg/kg	50.0		91	80-120			
Lead	44.6	2.0	mg/kg	50.0		89	80-120			
Molybdenum	43.9	2.0	mg/kg	50.0		88	80-120			
Nickel	45.7	2.0	mg/kg	50.0		91	80-120			
Selenium	41.7	2.0	mg/kg	50.0		83	80-120			
Silver	23.1	1.0	mg/kg	25.0		92	80-120			
Thallium	45.2	10	mg/kg	50.0		90	80-120			
Vanadium	45.1	1.0	mg/kg	50.0		90	80-120			
Zinc	44.8	5.0	mg/kg	50.0		90	80-120			

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH2715

Sampled: 08/21/06
 Received: 08/24/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H28083 Extracted: 08/28/06										
Matrix Spike Analyzed: 08/28/2006 (6H28083-MS1)					Source: IPH2847-01					
Antimony	37.4	10	mg/kg	50.0	1.7	71	75-125			M2
Arsenic	48.0	2.0	mg/kg	50.0	2.2	92	75-125			
Barium	82.5	1.0	mg/kg	50.0	31	103	75-125			
Beryllium	47.4	0.50	mg/kg	50.0	ND	95	75-125			
Cadmium	44.8	0.50	mg/kg	50.0	0.38	89	75-125			
Chromium	60.9	1.0	mg/kg	50.0	11	100	75-125			
Cobalt	48.5	1.0	mg/kg	50.0	2.3	92	75-125			
Copper	54.5	2.0	mg/kg	50.0	5.6	98	75-125			
Lead	48.3	2.0	mg/kg	50.0	2.6	91	75-125			
Molybdenum	45.2	2.0	mg/kg	50.0	0.48	89	75-125			
Nickel	58.2	2.0	mg/kg	50.0	12	92	75-125			
Selenium	43.1	2.0	mg/kg	50.0	ND	86	75-125			
Silver	23.1	1.0	mg/kg	25.0	ND	92	75-125			
Thallium	45.1	10	mg/kg	50.0	ND	90	75-125			
Vanadium	62.8	1.0	mg/kg	50.0	15	96	75-125			
Zinc	67.5	5.0	mg/kg	50.0	19	97	75-125			
Matrix Spike Dup Analyzed: 08/28/2006 (6H28083-MSD1)					Source: IPH2847-01					
Antimony	36.0	10	mg/kg	50.0	1.7	69	75-125	4	20	M2
Arsenic	47.4	2.0	mg/kg	50.0	2.2	90	75-125	1	20	
Barium	83.9	1.0	mg/kg	50.0	31	106	75-125	2	20	
Beryllium	46.6	0.50	mg/kg	50.0	ND	93	75-125	2	20	
Cadmium	44.6	0.50	mg/kg	50.0	0.38	88	75-125	0	20	
Chromium	58.0	1.0	mg/kg	50.0	11	94	75-125	5	20	
Cobalt	48.5	1.0	mg/kg	50.0	2.3	92	75-125	0	20	
Copper	56.7	2.0	mg/kg	50.0	5.6	102	75-125	4	20	
Lead	47.4	2.0	mg/kg	50.0	2.6	90	75-125	2	20	
Molybdenum	44.2	2.0	mg/kg	50.0	0.48	87	75-125	2	20	
Nickel	58.3	2.0	mg/kg	50.0	12	93	75-125	0	20	
Selenium	41.9	2.0	mg/kg	50.0	ND	84	75-125	3	20	
Silver	23.3	1.0	mg/kg	25.0	ND	93	75-125	1	20	
Thallium	44.3	10	mg/kg	50.0	ND	89	75-125	2	20	
Vanadium	64.2	1.0	mg/kg	50.0	15	98	75-125	2	20	
Zinc	67.6	5.0	mg/kg	50.0	19	97	75-125	0	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH2715

Sampled: 08/21/06
 Received: 08/24/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H29047 Extracted: 08/29/06										
Blank Analyzed: 08/29/2006 (6H29047-BLK1)										
Mercury	ND	0.020	mg/kg							
LCS Analyzed: 08/29/2006 (6H29047-BS1)										
Mercury	0.829	0.020	mg/kg	0.800		104	85-120			
Matrix Spike Analyzed: 08/29/2006 (6H29047-MS1)										
Mercury	0.783	0.020	mg/kg	0.800	ND	98	65-135			
Matrix Spike Dup Analyzed: 08/29/2006 (6H29047-MSD1)										
Mercury	0.819	0.020	mg/kg	0.800	ND	102	65-135	4	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH2715

Sampled: 08/21/06
 Received: 08/24/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I01114 Extracted: 09/01/06										
Duplicate Analyzed: 09/05/2006 (6I01114-DUP1)										
Percent Moisture	20.6	0.10	%		22			7	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Waste Characterization
Media Waste Characterization
Report Number: IPH2715

Sampled: 08/21/06
Received: 08/24/06

DATA QUALIFIERS AND DEFINITIONS

- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Waste Characterization
Media Waste Characterization
Report Number: IPH2715

Sampled: 08/21/06
Received: 08/24/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		
EPA 6010B	Soil	X	X
EPA 7471A	Soil	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Waste Characterization
Storage Tanks

Sampled: 07/28/06
Received: 08/03/06
Issued: 08/16/06 14:47

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID
IPH0456-01

CLIENT ID
S-WC-1

MATRIX
Soil

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Storage Tanks
 Report Number: IPH0456

Sampled: 07/28/06
 Received: 08/03/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0456-01 (S-WC-1 - Soil)								
Reporting Units: ug/kg								
Benzene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Bromobenzene	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
Bromochloromethane	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
Bromodichloromethane	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Bromoform	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
Bromomethane	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
n-Butylbenzene	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
sec-Butylbenzene	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
tert-Butylbenzene	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
Carbon tetrachloride	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
Chlorobenzene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Chloroethane	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
Chloroform	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Chloromethane	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
2-Chlorotoluene	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
4-Chlorotoluene	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
Dibromochloromethane	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
1,2-Dibromo-3-chloropropane	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
1,2-Dibromoethane (EDB)	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Dibromomethane	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
1,2-Dichlorobenzene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
1,3-Dichlorobenzene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
1,4-Dichlorobenzene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Dichlorodifluoromethane	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
1,1-Dichloroethane	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
1,2-Dichloroethane	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
1,1-Dichloroethene	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
cis-1,2-Dichloroethene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
trans-1,2-Dichloroethene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
1,2-Dichloropropane	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
1,3-Dichloropropane	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
2,2-Dichloropropane	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
1,1-Dichloropropene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
cis-1,3-Dichloropropene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
trans-1,3-Dichloropropene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Ethylbenzene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Hexachlorobutadiene	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
Isopropylbenzene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
p-Isopropyltoluene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Methylene chloride	EPA 8260B	6H07019	20	ND	0.984	8/7/2006	8/7/2006	
Naphthalene	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Storage Tanks
 Report Number: IPH0456

Sampled: 07/28/06
 Received: 08/03/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0456-01 (S-WC-1 - Soil) - cont.								
Reporting Units: ug/kg								
n-Propylbenzene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Styrene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
1,1,1,2-Tetrachloroethane	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
1,1,2,2-Tetrachloroethane	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Tetrachloroethene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Toluene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
1,2,3-Trichlorobenzene	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
1,2,4-Trichlorobenzene	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
1,1,1-Trichloroethane	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
1,1,2-Trichloroethane	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Trichloroethene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Trichlorofluoromethane	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
1,2,3-Trichloropropane	EPA 8260B	6H07019	9.8	ND	0.984	8/7/2006	8/7/2006	
1,2,4-Trimethylbenzene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
1,3,5-Trimethylbenzene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
Vinyl chloride	EPA 8260B	6H07019	4.9	ND	0.984	8/7/2006	8/7/2006	
o-Xylene	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
m,p-Xylenes	EPA 8260B	6H07019	2.0	ND	0.984	8/7/2006	8/7/2006	
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				107 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				103 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				91 %				

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Storage Tanks
 Report Number: IPH0456

Sampled: 07/28/06
 Received: 08/03/06

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0456-01 (S-WC-1 - Soil)								
Reporting Units: mg/kg								
Antimony	EPA 6010B	6H07102	10	ND	1	8/7/2006	8/8/2006	
Arsenic	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Barium	EPA 6010B	6H07102	1.0	7.9	1	8/7/2006	8/8/2006	
Beryllium	EPA 6010B	6H07102	0.50	ND	1	8/7/2006	8/8/2006	
Cadmium	EPA 6010B	6H07102	0.50	ND	1	8/7/2006	8/8/2006	
Chromium	EPA 6010B	6H07102	1.0	1.1	1	8/7/2006	8/8/2006	
Cobalt	EPA 6010B	6H07102	1.0	ND	1	8/7/2006	8/8/2006	
Copper	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Lead	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Mercury	EPA 7471A	6H08118	0.020	ND	1	8/8/2006	8/9/2006	
Molybdenum	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Nickel	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Selenium	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Silver	EPA 6010B	6H07102	1.0	ND	1	8/7/2006	8/8/2006	
Thallium	EPA 6010B	6H07102	10	ND	1	8/7/2006	8/8/2006	
Vanadium	EPA 6010B	6H07102	1.0	2.3	1	8/7/2006	8/8/2006	
Zinc	EPA 6010B	6H07102	5.0	9.1	1	8/7/2006	8/8/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Waste Characterization
Storage Tanks
Report Number: IPH0456

Sampled: 07/28/06
Received: 08/03/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0456-01 (S-WC-1 - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6H10151	0.10	16	1	8/10/2006	8/10/2006	

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Storage Tanks
 Report Number: IPH0456

Sampled: 07/28/06
 Received: 08/03/06

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

Analyte	Units	Sample Result	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	TCLP Max. Limit mg/L (ppm)
IPH0456-01 (S-WC-1 - Soil) EPA 6010B					
Antimony	mg/kg	ND	15	500	
Arsenic	mg/kg	ND	5.0	500	5.0
Barium	mg/kg	7.9	100	10000	100
Beryllium	mg/kg	ND	0.75	75	
Cadmium	mg/kg	ND	1.0	100	1.0
Chromium	mg/kg	1.1	5.0	2500	5.0
Cobalt	mg/kg	ND	80	8000	
Copper	mg/kg	ND	25	2500	
Lead	mg/kg	ND	5.0	1000	5.0
Mercury	mg/kg	ND	0.20	20	0.20
Molybdenum	mg/kg	ND	350	3500	
Nickel	mg/kg	ND	20	2000	
Selenium	mg/kg	ND	1.0	100	1.0
Silver	mg/kg	ND	5.0	500	5.0
Thallium	mg/kg	ND	7.0	700	
Vanadium	mg/kg	2.3	24	2400	
Zinc	mg/kg	9.1	250	5000	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Storage Tanks
 Report Number: IPH0456

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06									
Blank Analyzed: 08/07/2006 (6H07019-BLK1)									
Benzene	ND	2.0	ug/kg						
Bromobenzene	ND	5.0	ug/kg						
Bromochloromethane	ND	5.0	ug/kg						
Bromodichloromethane	ND	2.0	ug/kg						
Bromoform	ND	5.0	ug/kg						
Bromomethane	ND	5.0	ug/kg						
n-Butylbenzene	ND	5.0	ug/kg						
sec-Butylbenzene	ND	5.0	ug/kg						
tert-Butylbenzene	ND	5.0	ug/kg						
Carbon tetrachloride	ND	5.0	ug/kg						
Chlorobenzene	ND	2.0	ug/kg						
Chloroethane	ND	5.0	ug/kg						
Chloroform	ND	2.0	ug/kg						
Chloromethane	ND	5.0	ug/kg						
2-Chlorotoluene	ND	5.0	ug/kg						
4-Chlorotoluene	ND	5.0	ug/kg						
Dibromochloromethane	ND	2.0	ug/kg						
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg						
1,2-Dibromoethane (EDB)	ND	2.0	ug/kg						
Dibromomethane	ND	2.0	ug/kg						
1,2-Dichlorobenzene	ND	2.0	ug/kg						
1,3-Dichlorobenzene	ND	2.0	ug/kg						
1,4-Dichlorobenzene	ND	2.0	ug/kg						
Dichlorodifluoromethane	ND	5.0	ug/kg						
1,1-Dichloroethane	ND	2.0	ug/kg						
1,2-Dichloroethane	ND	2.0	ug/kg						
1,1-Dichloroethene	ND	5.0	ug/kg						
cis-1,2-Dichloroethene	ND	2.0	ug/kg						
trans-1,2-Dichloroethene	ND	2.0	ug/kg						
1,2-Dichloropropane	ND	2.0	ug/kg						
1,3-Dichloropropane	ND	2.0	ug/kg						
2,2-Dichloropropane	ND	2.0	ug/kg						
1,1-Dichloropropene	ND	2.0	ug/kg						
cis-1,3-Dichloropropene	ND	2.0	ug/kg						
trans-1,3-Dichloropropene	ND	2.0	ug/kg						

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Storage Tanks
 Report Number: IPH0456

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06										
Blank Analyzed: 08/07/2006 (6H07019-BLK1)										
Ethylbenzene	ND	2.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	2.0	ug/kg							
p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	20	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Propylbenzene	ND	2.0	ug/kg							
Styrene	ND	2.0	ug/kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg							
Tetrachloroethene	ND	2.0	ug/kg							
Toluene	ND	2.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	2.0	ug/kg							
1,1,2-Trichloroethane	ND	2.0	ug/kg							
Trichloroethene	ND	2.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	10	ug/kg							
1,2,4-Trimethylbenzene	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
o-Xylene	ND	2.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
Surrogate: Dibromofluoromethane	49.9		ug/kg	50.0		100	80-125			
Surrogate: Toluene-d8	54.4		ug/kg	50.0		109	80-120			
Surrogate: 4-Bromofluorobenzene	50.4		ug/kg	50.0		101	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Storage Tanks
 Report Number: IPH0456

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06										
LCS Analyzed: 08/07/2006 (6H07019-BS1)										
Benzene	55.5	2.0	ug/kg	50.0		111	65-120			
Bromobenzene	52.8	5.0	ug/kg	50.0		106	70-120			
Bromochloromethane	55.9	5.0	ug/kg	50.0		112	65-130			
Bromodichloromethane	55.5	2.0	ug/kg	50.0		111	65-135			
Bromoform	57.9	5.0	ug/kg	50.0		116	50-135			
Bromomethane	58.7	5.0	ug/kg	50.0		117	60-145			
n-Butylbenzene	45.2	5.0	ug/kg	50.0		90	70-125			
sec-Butylbenzene	47.2	5.0	ug/kg	50.0		94	70-125			
tert-Butylbenzene	45.9	5.0	ug/kg	50.0		92	70-125			
Carbon tetrachloride	51.2	5.0	ug/kg	50.0		102	65-140			
Chlorobenzene	51.3	2.0	ug/kg	50.0		103	70-125			
Chloroethane	61.3	5.0	ug/kg	50.0		123	55-140			
Chloroform	53.3	2.0	ug/kg	50.0		107	65-130			
Chloromethane	61.6	5.0	ug/kg	50.0		123	40-140			
2-Chlorotoluene	50.9	5.0	ug/kg	50.0		102	70-125			
4-Chlorotoluene	51.3	5.0	ug/kg	50.0		103	70-125			
Dibromochloromethane	57.2	2.0	ug/kg	50.0		114	65-140			
1,2-Dibromo-3-chloropropane	52.7	5.0	ug/kg	50.0		105	45-140			
1,2-Dibromoethane (EDB)	56.7	2.0	ug/kg	50.0		113	70-130			
Dibromomethane	58.7	2.0	ug/kg	50.0		117	65-130			
1,2-Dichlorobenzene	53.1	2.0	ug/kg	50.0		106	70-120			
1,3-Dichlorobenzene	53.1	2.0	ug/kg	50.0		106	70-125			
1,4-Dichlorobenzene	51.8	2.0	ug/kg	50.0		104	70-125			
Dichlorodifluoromethane	61.8	5.0	ug/kg	50.0		124	25-155			
1,1-Dichloroethane	54.2	2.0	ug/kg	50.0		108	65-130			
1,2-Dichloroethane	50.3	2.0	ug/kg	50.0		101	60-140			
1,1-Dichloroethene	48.2	5.0	ug/kg	50.0		96	70-130			
cis-1,2-Dichloroethene	51.3	2.0	ug/kg	50.0		103	65-125			
trans-1,2-Dichloroethene	51.9	2.0	ug/kg	50.0		104	65-130			
1,2-Dichloropropane	59.9	2.0	ug/kg	50.0		120	65-125			
1,3-Dichloropropane	59.6	2.0	ug/kg	50.0		119	65-125			
2,2-Dichloropropane	52.6	2.0	ug/kg	50.0		105	60-145			
1,1-Dichloropropene	56.1	2.0	ug/kg	50.0		112	70-130			
cis-1,3-Dichloropropene	52.3	2.0	ug/kg	50.0		105	70-130			
trans-1,3-Dichloropropene	54.1	2.0	ug/kg	50.0		108	65-135			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Storage Tanks
 Report Number: IPH0456

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06										
LCS Analyzed: 08/07/2006 (6H07019-BS1)										
Ethylbenzene	52.3	2.0	ug/kg	50.0		105	70-125			
Hexachlorobutadiene	35.0	5.0	ug/kg	50.0		70	60-135			
Isopropylbenzene	57.0	2.0	ug/kg	50.0		114	70-125			
p-Isopropyltoluene	45.7	2.0	ug/kg	50.0		91	70-125			
Methylene chloride	53.4	20	ug/kg	50.0		107	60-130			
Naphthalene	50.9	5.0	ug/kg	50.0		102	50-140			
n-Propylbenzene	55.3	2.0	ug/kg	50.0		111	70-125			
Styrene	51.3	2.0	ug/kg	50.0		103	70-130			
1,1,1,2-Tetrachloroethane	45.8	5.0	ug/kg	50.0		92	70-135			
1,1,2,2-Tetrachloroethane	53.6	2.0	ug/kg	50.0		107	55-140			
Tetrachloroethene	51.9	2.0	ug/kg	50.0		104	65-125			
Toluene	53.5	2.0	ug/kg	50.0		107	70-125			
1,2,3-Trichlorobenzene	48.3	5.0	ug/kg	50.0		97	60-130			
1,2,4-Trichlorobenzene	49.1	5.0	ug/kg	50.0		98	65-135			
1,1,1-Trichloroethane	49.6	2.0	ug/kg	50.0		99	65-135			
1,1,2-Trichloroethane	50.4	2.0	ug/kg	50.0		101	65-130			
Trichloroethene	47.4	2.0	ug/kg	50.0		95	70-125			
Trichlorofluoromethane	62.3	5.0	ug/kg	50.0		125	60-140			
1,2,3-Trichloropropane	60.6	10	ug/kg	50.0		121	55-135			
1,2,4-Trimethylbenzene	50.6	2.0	ug/kg	50.0		101	70-125			
1,3,5-Trimethylbenzene	49.4	2.0	ug/kg	50.0		99	70-125			
Vinyl chloride	59.2	5.0	ug/kg	50.0		118	50-130			
o-Xylene	52.4	2.0	ug/kg	50.0		105	70-125			
m,p-Xylenes	106	2.0	ug/kg	100		106	70-125			
Surrogate: Dibromofluoromethane	50.4		ug/kg	50.0		101	80-125			
Surrogate: Toluene-d8	52.7		ug/kg	50.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	50.9		ug/kg	50.0		102	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Storage Tanks
 Report Number: IPH0456

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06									
Matrix Spike Analyzed: 08/07/2006 (6H07019-MS1)					Source: IPG2250-24				
Benzene	53.8	1.9	ug/kg	48.6	ND	111	65-130		
Bromobenzene	54.6	4.9	ug/kg	48.6	ND	112	70-135		
Bromochloromethane	56.4	4.9	ug/kg	48.6	ND	116	65-140		
Bromodichloromethane	53.1	1.9	ug/kg	48.6	ND	109	65-140		
Bromoform	53.4	4.9	ug/kg	48.6	ND	110	50-140		
Bromomethane	59.8	4.9	ug/kg	48.6	ND	123	55-150		
n-Butylbenzene	40.2	4.9	ug/kg	48.6	ND	83	55-140		
sec-Butylbenzene	45.3	4.9	ug/kg	48.6	ND	93	65-130		
tert-Butylbenzene	46.0	4.9	ug/kg	48.6	ND	95	65-135		
Carbon tetrachloride	46.4	4.9	ug/kg	48.6	ND	95	65-140		
Chlorobenzene	47.5	1.9	ug/kg	48.6	ND	98	70-125		
Chloroethane	63.7	4.9	ug/kg	48.6	ND	131	55-145		
Chloroform	54.0	1.9	ug/kg	48.6	ND	111	65-130		
Chloromethane	66.0	4.9	ug/kg	48.6	ND	136	35-140		
2-Chlorotoluene	50.8	4.9	ug/kg	48.6	ND	105	65-130		
4-Chlorotoluene	50.8	4.9	ug/kg	48.6	ND	105	70-130		
Dibromochloromethane	56.1	1.9	ug/kg	48.6	ND	115	65-140		
1,2-Dibromo-3-chloropropane	63.0	4.9	ug/kg	48.6	ND	130	45-145		
1,2-Dibromoethane (EDB)	57.8	1.9	ug/kg	48.6	ND	119	65-135		
Dibromomethane	57.0	1.9	ug/kg	48.6	ND	117	65-135		
1,2-Dichlorobenzene	48.8	1.9	ug/kg	48.6	ND	100	70-130		
1,3-Dichlorobenzene	48.3	1.9	ug/kg	48.6	ND	99	70-125		
1,4-Dichlorobenzene	47.3	1.9	ug/kg	48.6	ND	97	70-125		
Dichlorodifluoromethane	67.5	4.9	ug/kg	48.6	ND	139	25-155		
1,1-Dichloroethane	55.8	1.9	ug/kg	48.6	ND	115	65-130		
1,2-Dichloroethane	49.7	1.9	ug/kg	48.6	ND	102	60-145		
1,1-Dichloroethene	48.7	4.9	ug/kg	48.6	ND	100	65-135		
cis-1,2-Dichloroethene	51.8	1.9	ug/kg	48.6	ND	107	65-130		
trans-1,2-Dichloroethene	52.5	1.9	ug/kg	48.6	ND	108	65-135		
1,2-Dichloropropane	58.2	1.9	ug/kg	48.6	ND	120	65-125		
1,3-Dichloropropane	61.7	1.9	ug/kg	48.6	ND	127	65-135		
2,2-Dichloropropane	53.3	1.9	ug/kg	48.6	ND	110	60-145		
1,1-Dichloropropene	51.4	1.9	ug/kg	48.6	ND	106	65-135		
cis-1,3-Dichloropropene	50.7	1.9	ug/kg	48.6	ND	104	70-130		
trans-1,3-Dichloropropene	51.7	1.9	ug/kg	48.6	ND	106	65-140		

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Storage Tanks
 Report Number: IPH0456

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06										
Matrix Spike Analyzed: 08/07/2006 (6H07019-MS1)					Source: IPG2250-24					
Ethylbenzene	46.7	1.9	ug/kg	48.6	ND	96	70-130			
Hexachlorobutadiene	25.8	4.9	ug/kg	48.6	ND	53	55-140			M2
Isopropylbenzene	59.2	1.9	ug/kg	48.6	ND	122	65-140			
p-Isopropyltoluene	43.6	1.9	ug/kg	48.6	ND	90	60-135			
Methylene chloride	55.6	19	ug/kg	48.6	ND	114	60-140			
Naphthalene	42.8	4.9	ug/kg	48.6	ND	88	40-155			
n-Propylbenzene	54.8	1.9	ug/kg	48.6	ND	113	65-140			
Styrene	44.8	1.9	ug/kg	48.6	ND	92	70-140			
1,1,1,2-Tetrachloroethane	43.1	4.9	ug/kg	48.6	ND	89	70-140			
1,1,2,2-Tetrachloroethane	63.9	1.9	ug/kg	48.6	ND	131	45-155			
Tetrachloroethene	45.5	1.9	ug/kg	48.6	ND	94	65-135			
Toluene	50.0	1.9	ug/kg	48.6	2.1	99	70-125			
1,2,3-Trichlorobenzene	32.1	4.9	ug/kg	48.6	ND	66	50-140			
1,2,4-Trichlorobenzene	34.8	4.9	ug/kg	48.6	ND	72	55-135			
1,1,1-Trichloroethane	49.3	1.9	ug/kg	48.6	ND	101	65-140			
1,1,2-Trichloroethane	50.7	1.9	ug/kg	48.6	ND	104	65-135			
Trichloroethene	43.3	1.9	ug/kg	48.6	ND	89	70-135			
Trichlorofluoromethane	63.1	4.9	ug/kg	48.6	ND	130	50-150			
1,2,3-Trichloropropane	73.7	9.7	ug/kg	48.6	ND	152	55-145			M1
1,2,4-Trimethylbenzene	49.0	1.9	ug/kg	48.6	ND	101	65-135			
1,3,5-Trimethylbenzene	49.4	1.9	ug/kg	48.6	ND	102	70-130			
Vinyl chloride	63.9	4.9	ug/kg	48.6	ND	131	50-135			
o-Xylene	46.8	1.9	ug/kg	48.6	ND	96	70-125			
m,p-Xylenes	95.3	1.9	ug/kg	97.3	ND	98	70-125			
Surrogate: Dibromofluoromethane	54.4		ug/kg	48.6		112	80-125			
Surrogate: Toluene-d8	50.8		ug/kg	48.6		105	80-120			
Surrogate: 4-Bromofluorobenzene	46.5		ug/kg	48.6		96	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Storage Tanks
 Report Number: IPH0456

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06										
Matrix Spike Dup Analyzed: 08/08/2006 (6H07019-MSD1)					Source: IPG2250-24					
Benzene	62.3	2.1	ug/kg	52.3	ND	119	65-130	15	20	
Bromobenzene	60.4	5.2	ug/kg	52.3	ND	115	70-135	10	25	
Bromochloromethane	65.8	5.2	ug/kg	52.3	ND	126	65-140	15	25	
Bromodichloromethane	62.7	2.1	ug/kg	52.3	ND	120	65-140	17	20	
Bromoform	63.8	5.2	ug/kg	52.3	ND	122	50-140	18	30	
Bromomethane	72.6	5.2	ug/kg	52.3	ND	139	55-150	19	25	
n-Butylbenzene	55.3	5.2	ug/kg	52.3	ND	106	55-140	32	30	R
sec-Butylbenzene	57.7	5.2	ug/kg	52.3	ND	110	65-130	24	25	
tert-Butylbenzene	55.4	5.2	ug/kg	52.3	ND	106	65-135	19	25	
Carbon tetrachloride	54.2	5.2	ug/kg	52.3	ND	104	65-140	16	25	
Chlorobenzene	55.5	2.1	ug/kg	52.3	ND	106	70-125	16	25	
Chloroethane	77.8	5.2	ug/kg	52.3	ND	149	55-145	20	25	MI
Chloroform	63.4	2.1	ug/kg	52.3	ND	121	65-130	16	20	
Chloromethane	80.1	5.2	ug/kg	52.3	ND	153	35-140	19	25	MI
2-Chlorotoluene	58.6	5.2	ug/kg	52.3	ND	112	65-130	14	25	
4-Chlorotoluene	58.1	5.2	ug/kg	52.3	ND	111	70-130	13	25	
Dibromochloromethane	64.8	2.1	ug/kg	52.3	ND	124	65-140	14	25	
1,2-Dibromo-3-chloropropane	63.1	5.2	ug/kg	52.3	ND	121	45-145	0	30	
1,2-Dibromoethane (EDB)	66.9	2.1	ug/kg	52.3	ND	128	65-135	15	25	
Dibromomethane	67.3	2.1	ug/kg	52.3	ND	129	65-135	17	25	
1,2-Dichlorobenzene	57.3	2.1	ug/kg	52.3	ND	110	70-130	16	25	
1,3-Dichlorobenzene	57.4	2.1	ug/kg	52.3	ND	110	70-125	17	25	
1,4-Dichlorobenzene	56.1	2.1	ug/kg	52.3	ND	107	70-125	17	25	
Dichlorodifluoromethane	79.0	5.2	ug/kg	52.3	ND	151	25-155	16	35	
1,1-Dichloroethane	66.3	2.1	ug/kg	52.3	ND	127	65-130	17	25	
1,2-Dichloroethane	58.6	2.1	ug/kg	52.3	ND	112	60-145	16	25	
1,1-Dichloroethene	55.4	5.2	ug/kg	52.3	ND	106	65-135	13	25	
cis-1,2-Dichloroethene	60.1	2.1	ug/kg	52.3	ND	115	65-130	15	25	
trans-1,2-Dichloroethene	61.6	2.1	ug/kg	52.3	ND	118	65-135	16	25	
1,2-Dichloropropane	68.7	2.1	ug/kg	52.3	ND	131	65-125	17	20	MI
1,3-Dichloropropane	71.5	2.1	ug/kg	52.3	ND	137	65-135	15	25	MI
2,2-Dichloropropane	62.0	2.1	ug/kg	52.3	ND	119	60-145	15	25	
1,1-Dichloropropene	61.3	2.1	ug/kg	52.3	ND	117	65-135	18	20	
cis-1,3-Dichloropropene	59.6	2.1	ug/kg	52.3	ND	114	70-130	16	25	
trans-1,3-Dichloropropene	61.8	2.1	ug/kg	52.3	ND	118	65-140	18	25	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Waste Characterization
Storage Tanks
Report Number: IPH0456

Sampled: 07/28/06
Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06										
Matrix Spike Dup Analyzed: 08/08/2006 (6H07019-MSD1)					Source: IPG2250-24					
Ethylbenzene	56.1	2.1	ug/kg	52.3	ND	107	70-130	18	25	
Hexachlorobutadiene	41.4	5.2	ug/kg	52.3	ND	79	55-140	46	35	R-3
Isopropylbenzene	66.2	2.1	ug/kg	52.3	ND	127	65-140	11	25	
p-Isopropyltoluene	54.3	2.1	ug/kg	52.3	ND	104	60-135	22	25	
Methylene chloride	63.9	21	ug/kg	52.3	ND	122	60-140	14	25	
Naphthalene	50.0	5.2	ug/kg	52.3	ND	96	40-155	16	40	
n-Propylbenzene	64.1	2.1	ug/kg	52.3	ND	123	65-140	16	25	
Styrene	54.7	2.1	ug/kg	52.3	ND	105	70-140	20	25	
1,1,1,2-Tetrachloroethane	49.7	5.2	ug/kg	52.3	ND	95	70-140	14	20	
1,1,2,2-Tetrachloroethane	70.6	2.1	ug/kg	52.3	ND	135	45-155	10	30	
Tetrachloroethene	55.3	2.1	ug/kg	52.3	ND	106	65-135	19	25	
Toluene	58.2	2.1	ug/kg	52.3	2.1	107	70-125	15	20	
1,2,3-Trichlorobenzene	46.9	5.2	ug/kg	52.3	ND	90	50-140	37	30	R
1,2,4-Trichlorobenzene	49.1	5.2	ug/kg	52.3	ND	94	55-135	34	30	R
1,1,1-Trichloroethane	56.4	2.1	ug/kg	52.3	ND	108	65-140	13	20	
1,1,2-Trichloroethane	59.3	2.1	ug/kg	52.3	ND	113	65-135	16	30	
Trichloroethene	49.4	2.1	ug/kg	52.3	ND	94	70-135	13	25	
Trichlorofluoromethane	76.5	5.2	ug/kg	52.3	ND	146	50-150	19	25	
1,2,3-Trichloropropane	79.5	10	ug/kg	52.3	ND	152	55-145	8	30	MI
1,2,4-Trimethylbenzene	57.3	2.1	ug/kg	52.3	ND	110	65-135	16	25	
1,3,5-Trimethylbenzene	57.1	2.1	ug/kg	52.3	ND	109	70-130	14	25	
Vinyl chloride	75.0	5.2	ug/kg	52.3	ND	143	50-135	16	30	MI
o-Xylene	57.2	2.1	ug/kg	52.3	ND	109	70-125	20	25	
m,p-Xylenes	113	2.1	ug/kg	105	ND	108	70-125	17	25	
Surrogate: Dibromofluoromethane	58.4		ug/kg	52.3		112	80-125			
Surrogate: Toluene-d8	56.8		ug/kg	52.3		109	80-120			
Surrogate: 4-Bromofluorobenzene	52.6		ug/kg	52.3		101	80-120			

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Storage Tanks
 Report Number: IPH0456

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07102 Extracted: 08/07/06										
Blank Analyzed: 08/08/2006 (6H07102-BLK1)										
Antimony	ND	10	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	0.50	mg/kg							
Cadmium	ND	0.50	mg/kg							
Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Selenium	ND	2.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	5.0	mg/kg							
LCS Analyzed: 08/08/2006 (6H07102-BS1)										
Antimony	46.8	10	mg/kg	50.0		94	80-120			
Arsenic	44.2	2.0	mg/kg	50.0		88	80-120			
Barium	42.1	1.0	mg/kg	50.0		84	80-120			
Beryllium	44.3	0.50	mg/kg	50.0		89	80-120			
Cadmium	42.8	0.50	mg/kg	50.0		86	80-120			
Chromium	43.0	1.0	mg/kg	50.0		86	80-120			
Cobalt	43.3	1.0	mg/kg	50.0		87	80-120			
Copper	44.7	2.0	mg/kg	50.0		89	80-120			
Lead	44.6	2.0	mg/kg	50.0		89	80-120			
Molybdenum	41.7	2.0	mg/kg	50.0		83	80-120			
Nickel	42.5	2.0	mg/kg	50.0		85	80-120			
Selenium	43.9	2.0	mg/kg	50.0		88	80-120			
Silver	22.3	1.0	mg/kg	25.0		89	80-120			
Thallium	44.2	10	mg/kg	50.0		88	80-120			
Vanadium	42.4	1.0	mg/kg	50.0		85	80-120			
Zinc	50.4	5.0	mg/kg	50.0		101	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Waste Characterization
Storage Tanks
Report Number: IPH0456

Sampled: 07/28/06
Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H07102 Extracted: 08/07/06										
Matrix Spike Analyzed: 08/08/2006 (6H07102-MS1)					Source: IPH0575-03					
Antimony	29.1	10	mg/kg	49.8	ND	58	75-125			M2
Arsenic	41.1	2.0	mg/kg	49.8	1.2	80	75-125			
Barium	68.1	1.0	mg/kg	49.8	30	77	75-125			
Beryllium	41.1	0.50	mg/kg	49.8	ND	83	75-125			
Cadmium	39.2	0.50	mg/kg	49.8	ND	79	75-125			
Chromium	43.6	1.0	mg/kg	49.8	4.7	78	75-125			
Cobalt	42.7	1.0	mg/kg	49.8	2.4	81	75-125			
Copper	47.1	2.0	mg/kg	49.8	4.8	85	75-125			
Lead	41.9	2.0	mg/kg	49.8	2.3	80	75-125			
Molybdenum	38.8	2.0	mg/kg	49.8	ND	78	75-125			
Nickel	41.8	2.0	mg/kg	49.8	3.0	78	75-125			
Selenium	37.7	2.0	mg/kg	49.8	ND	76	75-125			
Silver	21.0	1.0	mg/kg	24.9	0.40	83	75-125			
Thallium	40.4	10	mg/kg	49.8	ND	81	75-125			
Vanadium	52.5	1.0	mg/kg	49.8	15	75	75-125			
Zinc	54.7	5.0	mg/kg	49.8	16	78	75-125			
Matrix Spike Dup Analyzed: 08/08/2006 (6H07102-MSD1)					Source: IPH0575-03					
Antimony	28.3	10	mg/kg	49.8	ND	57	75-125	3	20	M2
Arsenic	40.4	2.0	mg/kg	49.8	1.2	79	75-125	2	20	
Barium	66.1	1.0	mg/kg	49.8	30	72	75-125	3	20	M2
Beryllium	40.0	0.50	mg/kg	49.8	ND	80	75-125	3	20	
Cadmium	38.1	0.50	mg/kg	49.8	ND	77	75-125	3	20	
Chromium	42.7	1.0	mg/kg	49.8	4.7	76	75-125	2	20	
Cobalt	42.0	1.0	mg/kg	49.8	2.4	80	75-125	2	20	
Copper	45.4	2.0	mg/kg	49.8	4.8	82	75-125	4	20	
Lead	41.4	2.0	mg/kg	49.8	2.3	79	75-125	1	20	
Molybdenum	38.3	2.0	mg/kg	49.8	ND	77	75-125	1	20	
Nickel	40.5	2.0	mg/kg	49.8	3.0	75	75-125	3	20	
Selenium	37.5	2.0	mg/kg	49.8	ND	75	75-125	1	20	
Silver	20.2	1.0	mg/kg	24.9	0.40	80	75-125	4	20	
Thallium	40.2	10	mg/kg	49.8	ND	81	75-125	1	20	
Vanadium	50.3	1.0	mg/kg	49.8	15	71	75-125	4	20	M2
Zinc	53.3	5.0	mg/kg	49.8	16	75	75-125	3	20	

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Storage Tanks
 Report Number: IPH0456

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08118 Extracted: 08/08/06										
Blank Analyzed: 08/09/2006 (6H08118-BLK1)										
Mercury	ND	0.020	mg/kg							
LCS Analyzed: 08/09/2006 (6H08118-BS1)										
Mercury	0.759	0.020	mg/kg	0.800		95	85-120			
Matrix Spike Analyzed: 08/09/2006 (6H08118-MS1)										
Mercury	0.743	0.020	mg/kg	0.800	0.011	91	65-135			
Matrix Spike Dup Analyzed: 08/09/2006 (6H08118-MSD1)										
Mercury	0.735	0.020	mg/kg	0.800	0.011	90	65-135	1	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Storage Tanks
 Report Number: IPH0456

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10151 Extracted: 08/10/06										
Duplicate Analyzed: 08/10/2006 (6H10151-DUP1)										
Percent Moisture	86.9	0.10	%		87			0	20	
					Source: IPH0452-01					

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Waste Characterization
Storage Tanks
Report Number: IPH0456

Sampled: 07/28/06
Received: 08/03/06

DATA QUALIFIERS AND DEFINITIONS

- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R** The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
- R-3** The RPD exceeded the method control limit due to sample matrix effects.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Waste Characterization
Storage Tanks
Report Number: IPH0456

Sampled: 07/28/06
Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		
EPA 6010B	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
Haz Waste Scree	Soil		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-Haz. Waste
Samples: IPH0456-01

TestAmerica - Irvine, CA

Lisa Reightley For Michele Chamberlin
Project Manager

Michele Chamberlin

From: Eric S Tsai [Eric.S.Tsai@us.mwhglobal.com]
Sent: Friday, August 04, 2006 10:55 AM
To: Michele Chamberlin
Cc: Banaga, Richard M
Subject: Re: R2A Pond sampling next week

Hi Michele,

Per our discussion today, we'll be sampling on Thursday next week and for all subsequent weeks.

Also, the COC's that I submitted to you were incorrect. If you could analyze for Title 22 metals instead of Total Recoverable metals for all of the hazardous waste characterization samples of the filter media, that would be much appreciated.

Thanks!

Regards,

Eric Tsai

Eric Tsai, EIT
Associate Engineer
MWH, Pasadena
Phone: (626) 568-6277
Fax: (626) 568-6101
Eric.S.Tsai@Mwhglobal.com

"Michele Chamberlin" <mchamberlin@testamericainc.com>

"Michele Chamberlin"
<mchamberlin@testamericainc.com>

08/04/2006 10:10 AM

To "Eric S Tsai"
<Eric.S.Tsai@us.mwhglobal.com>,
"Banaga, Richard M"
<richard.m.banaga@boeing.com>

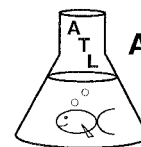
cc
Subject R2A Pond sampling next week

Hi Eric/Rick,

When do you plan on sampling this next week? Please let me know so that I can add you to the schedule.

Thanks and have a good day.

LABORATORY REPORT



**Aquatic
Testing
Laboratories**

"dedicated to providing quality aquatic toxicity testing"

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Date: August 12, 2006
Client: Del Mar Analytical, Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Michele Chamberlin

Laboratory No.: A-06080706-001
Sample ID.: IPH0456-01

Sample Control: The samples were received by ATL in a chilled state, with the chain of custody record attached.

Date Sampled: 07/28/06
Date Received: 08/07/06
Date Tested: 08/07/06 to 08/12/06

Sample Analysis: The following analyses were performed on your sample:
CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay (Polisini & Miller 1988).
Attached are the test data generated from the analysis of your sample.

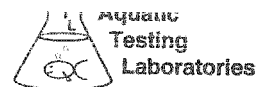
Result Summary:

<u>Sample ID.</u>	<u>Results</u>
IPH0456-01	PASSED (LC50 > 750 mg/l)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

**FATHEAD MINNOW HAZARDOUS WASTE
SCREEN BIOASSAY**



Lab No.: A06080706-001
Client/ID: Test America 1PH0456-01

TEST SUMMARY

Species: <i>Pimephales promelas</i> .	Source: In-lab culture.
Fish length (mm): av: 26; min: 24; max: 28.	Regulations: CCR Title 22.
Fish weight (gm): av: 0.36; min: 0.28; max: 0.42.	Test Protocol: California F&G/DHS 1988.
Test chamber volume: 10 liters.	Endpoints: Survival at 96 hrs.
Temperature: 20 +/- 2°C.	Test type: Static.
Aeration: Single bubble through narrow bore tube.	Feeding: None.
Number of replicates: 2.	Number of fish per chamber: 10.
Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO ₃).	Photoperiod: 16/8 hrs light/dark.
QA/QC Batch No.: RT-060724.	

TEST DATA

Date/Time:	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D
8-8-06 1100	19.8	8.0	7.3	0	20.4	8.0	7.0	0	20.4	7.9	6.9	0	20.5	8.0	6.9	0	20.5	8.1	7.0	0
Analyst: <i>R</i>																				
Control A	19.8	8.0	7.3	0	20.4	8.0	7.0	0	20.4	7.9	6.9	0	20.5	8.0	6.9	0	20.5	8.1	7.0	0
Control B	19.7	8.1	7.3	0	20.3	7.6	7.0	0	20.3	7.6	6.9	0	20.4	7.7	6.9	0	20.4	7.8	7.1	0
400 mg/l A	20.0	8.1	7.5	0	20.3	7.9	6.9	0	20.4	8.3	7.0	0	20.5	8.1	7.0	0	20.4	7.9	7.1	0
400 mg/l B	19.9	8.1	7.5	0	20.2	7.4	6.9	0	20.4	7.9	7.0	0	20.4	8.0	7.0	0	20.3	7.7	7.1	0
750 mg/l A	19.9	8.2	7.5	0	20.2	8.3	7.0	0	20.3	8.5	7.0	0	20.4	8.4	7.1	0	20.3	8.3	7.1	0
750 mg/l B	19.8	8.3	7.6	0	20.1	8.4	7.0	0	20.3	8.6	7.1	0	20.3	8.5	7.1	0	20.2	8.4	7.1	0
Comments:	Extraction method: Mechanical shaking <input checked="" type="checkbox"/> . None (aqueous solution) <input type="checkbox"/> .																			

	CONTROL		HIGH CONCENTRATION		Total Number Dead	
	Alkalinity	Hardness	Alkalinity	Hardness	Control	400 mg/l
Initial	25 mg/l CaCO ₃	45 mg/l CaCO ₃	25 mg/l CaCO ₃	46 mg/l CaCO ₃	0	0
Final	26 mg/l CaCO ₃	46 mg/l CaCO ₃	26 mg/l CaCO ₃	47 mg/l CaCO ₃	0	0

RESULTS

✓ (one)	Result	Description
X	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
—	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
—	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

SUBCONTRACT ORDER - PROJECT # IPH0456

SENDING LABORATORY:

TestAmerica - Irvine, CA
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone : (805) 650-0546
Fax: (805) 650-0756

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IPH0456-01 Soil	Sampled: 07/28/06 12:44	
Bioassay-Haz. Waste	08/04/06 12:44	Sub to AqTox

Containers Supplied:
2 oz jar (IPH0456-01B)

SAMPLE INTEGRITY:

All containers intact: Yes No
Custody Seals Present: Yes No
Sample labels/COC agree: Yes No
Samples Preserved Properly: Yes No
Samples Received On Ice: Yes No
Samples Received at (temp): 20C

Released By: [Signature] Date: 8/7/06 Time: 0700
Received By: [Signature] Date: 8/7/06 Time: 0700
Released By: [Signature] Date: 8/7/06 Time: 12:08
Received By: [Signature] Date: 8-7-06 Time: 1200

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Storage Tanks

Sampled: 07/28/06
Received: 08/03/06
Issued: 08/16/06 14:11

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID
IPH0464-01

CLIENT ID
PM-WC-2

MATRIX
Soil

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06
 Received: 08/03/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0464-01 (PM-WC-2 - Soil)								
Reporting Units: ug/kg								
Benzene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
Bromobenzene	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	I, A-01a
Bromochloromethane	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	
Bromodichloromethane	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
Bromoform	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	
Bromomethane	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	
n-Butylbenzene	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	A-01a, I
sec-Butylbenzene	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	A-01a, I
tert-Butylbenzene	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	A-01a, I
Carbon tetrachloride	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	
Chlorobenzene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
Chloroethane	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	
Chloroform	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
Chloromethane	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	
2-Chlorotoluene	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	A-01a, I
4-Chlorotoluene	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	A-01a, I
Dibromochloromethane	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
1,2-Dibromo-3-chloropropane	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	A-01a, I
1,2-Dibromoethane (EDB)	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
Dibromomethane	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
1,2-Dichlorobenzene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	A-01a, I
1,3-Dichlorobenzene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	A-01a, I
1,4-Dichlorobenzene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	A-01a, I
Dichlorodifluoromethane	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	
1,1-Dichloroethane	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
1,2-Dichloroethane	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
1,1-Dichloroethene	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	
cis-1,2-Dichloroethene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
trans-1,2-Dichloroethene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
1,2-Dichloropropane	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
1,3-Dichloropropane	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
2,2-Dichloropropane	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
1,1-Dichloropropene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
cis-1,3-Dichloropropene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
trans-1,3-Dichloropropene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
Ethylbenzene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
Hexachlorobutadiene	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	A-01a, I
Isopropylbenzene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	A-01a, I
p-Isopropyltoluene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	A-01a, I
Methylene chloride	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
Naphthalene	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	A-01a, I

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06
 Received: 08/03/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0464-01 (PM-WC-2 - Soil) - cont.								
Reporting Units: ug/kg								
n-Propylbenzene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	A-01a, I
Styrene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
1,1,1,2-Tetrachloroethane	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	
1,1,2,2-Tetrachloroethane	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	A-01a, I
Tetrachloroethene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
Toluene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
1,2,3-Trichlorobenzene	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	A-01a, I
1,2,4-Trichlorobenzene	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	A-01a, I
1,1,1-Trichloroethane	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
1,1,2-Trichloroethane	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
Trichloroethene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
Trichlorofluoromethane	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	
1,2,3-Trichloropropane	EPA 8260B	6H08007	11	ND	1.11	8/8/2006	8/8/2006	A-01a, I
1,2,4-Trimethylbenzene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	A-01a, I
1,3,5-Trimethylbenzene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	A-01a, I
Vinyl chloride	EPA 8260B	6H08007	5.5	ND	1.11	8/8/2006	8/8/2006	
o-Xylene	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
m,p-Xylenes	EPA 8260B	6H08007	2.2	ND	1.11	8/8/2006	8/8/2006	
Surrogate: Dibromofluoromethane (80-125%)				90 %				
Surrogate: Toluene-d8 (80-120%)				88 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				69 %				A-01a

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06

Received: 08/03/06

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0464-01 (PM-WC-2 - Soil)								
Reporting Units: mg/kg								
Antimony	EPA 6010B	6H07102	10	ND	0.995	8/7/2006	8/8/2006	
Arsenic	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Barium	EPA 6010B	6H07102	1.0	7.2	0.995	8/7/2006	8/8/2006	
Beryllium	EPA 6010B	6H07102	0.50	ND	0.995	8/7/2006	8/8/2006	
Cadmium	EPA 6010B	6H07102	0.50	ND	0.995	8/7/2006	8/8/2006	
Chromium	EPA 6010B	6H07102	1.0	ND	0.995	8/7/2006	8/8/2006	
Cobalt	EPA 6010B	6H07102	1.0	ND	0.995	8/7/2006	8/8/2006	
Copper	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Lead	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Mercury	EPA 7471A	6H08118	0.020	ND	1	8/8/2006	8/9/2006	
Molybdenum	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Nickel	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Selenium	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Silver	EPA 6010B	6H07102	1.0	ND	0.995	8/7/2006	8/8/2006	
Thallium	EPA 6010B	6H07102	10	ND	0.995	8/7/2006	8/8/2006	
Vanadium	EPA 6010B	6H07102	1.0	1.5	0.995	8/7/2006	8/8/2006	
Zinc	EPA 6010B	6H07102	5.0	5.8	0.995	8/7/2006	8/8/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06

Received: 08/03/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0464-01 (PM-WC-2 - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6H10151	0.10	85	1	8/10/2006	8/10/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06

Received: 08/03/06

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

Analyte	Units	Sample Result	STLC	TTLC	TCLP
			Max. Limit mg/L (ppm)	Max. Limit mg/Kg (ppm)	Max. Limit mg/L (ppm)
IPH0464-01 (PM-WC-2 - Soil) EPA 6010B					
Antimony	mg/kg	ND	15	500	
Arsenic	mg/kg	ND	5.0	500	5.0
Barium	mg/kg	7.2	100	10000	100
Beryllium	mg/kg	ND	0.75	75	
Cadmium	mg/kg	ND	1.0	100	1.0
Chromium	mg/kg	ND	5.0	2500	5.0
Cobalt	mg/kg	ND	80	8000	
Copper	mg/kg	ND	25	2500	
Lead	mg/kg	ND	5.0	1000	5.0
Mercury	mg/kg	ND	0.20	20	0.20
Molybdenum	mg/kg	ND	350	3500	
Nickel	mg/kg	ND	20	2000	
Selenium	mg/kg	ND	1.0	100	1.0
Silver	mg/kg	ND	5.0	500	5.0
Thallium	mg/kg	ND	7.0	700	
Vanadium	mg/kg	1.5	24	2400	
Zinc	mg/kg	5.8	250	5000	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Blank Analyzed: 08/08/2006 (6H08007-BLK1)										
Benzene	ND	2.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	2.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	2.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	2.0	ug/kg							
Chloromethane	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
Dibromochloromethane	ND	2.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	2.0	ug/kg							
Dibromomethane	ND	2.0	ug/kg							
1,2-Dichlorobenzene	ND	2.0	ug/kg							
1,3-Dichlorobenzene	ND	2.0	ug/kg							
1,4-Dichlorobenzene	ND	2.0	ug/kg							
Dichlorodifluoromethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	2.0	ug/kg							
1,2-Dichloroethane	ND	2.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	2.0	ug/kg							
trans-1,2-Dichloroethene	ND	2.0	ug/kg							
1,2-Dichloropropane	ND	2.0	ug/kg							
1,3-Dichloropropane	ND	2.0	ug/kg							
2,2-Dichloropropane	ND	2.0	ug/kg							
1,1-Dichloropropene	ND	2.0	ug/kg							
cis-1,3-Dichloropropene	ND	2.0	ug/kg							
trans-1,3-Dichloropropene	ND	2.0	ug/kg							

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Blank Analyzed: 08/08/2006 (6H08007-BLK1)										
Ethylbenzene	ND	2.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	2.0	ug/kg							
p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	20	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Propylbenzene	ND	2.0	ug/kg							
Styrene	ND	2.0	ug/kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg							
Tetrachloroethene	ND	2.0	ug/kg							
Toluene	ND	2.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	2.0	ug/kg							
1,1,2-Trichloroethane	ND	2.0	ug/kg							
Trichloroethene	ND	2.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	10	ug/kg							
1,2,4-Trimethylbenzene	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
o-Xylene	ND	2.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
Surrogate: Dibromofluoromethane	47.9		ug/kg	50.0		96			80-125	
Surrogate: Toluene-d8	50.3		ug/kg	50.0		101			80-120	
Surrogate: 4-Bromofluorobenzene	46.9		ug/kg	50.0		94			80-120	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
LCS Analyzed: 08/08/2006 (6H08007-BS1)										
Benzene	51.1	2.0	ug/kg	50.0		102	65-120			
Bromobenzene	49.3	5.0	ug/kg	50.0		99	70-120			
Bromochloromethane	52.5	5.0	ug/kg	50.0		105	65-130			
Bromodichloromethane	50.7	2.0	ug/kg	50.0		101	65-135			
Bromoform	49.9	5.0	ug/kg	50.0		100	50-135			
Bromomethane	58.1	5.0	ug/kg	50.0		116	60-145			
n-Butylbenzene	54.1	5.0	ug/kg	50.0		108	70-125			
sec-Butylbenzene	54.5	5.0	ug/kg	50.0		109	70-125			
tert-Butylbenzene	54.9	5.0	ug/kg	50.0		110	70-125			
Carbon tetrachloride	54.5	5.0	ug/kg	50.0		109	65-140			
Chlorobenzene	52.8	2.0	ug/kg	50.0		106	70-125			
Chloroethane	57.4	5.0	ug/kg	50.0		115	55-140			
Chloroform	52.1	2.0	ug/kg	50.0		104	65-130			
Chloromethane	60.4	5.0	ug/kg	50.0		121	40-140			
2-Chlorotoluene	51.3	5.0	ug/kg	50.0		103	70-125			
4-Chlorotoluene	52.8	5.0	ug/kg	50.0		106	70-125			
Dibromochloromethane	52.2	2.0	ug/kg	50.0		104	65-140			
1,2-Dibromo-3-chloropropane	52.9	5.0	ug/kg	50.0		106	45-140			
1,2-Dibromoethane (EDB)	55.2	2.0	ug/kg	50.0		110	70-130			
Dibromomethane	51.5	2.0	ug/kg	50.0		103	65-130			
1,2-Dichlorobenzene	52.3	2.0	ug/kg	50.0		105	70-120			
1,3-Dichlorobenzene	51.2	2.0	ug/kg	50.0		102	70-125			
1,4-Dichlorobenzene	50.4	2.0	ug/kg	50.0		101	70-125			
Dichlorodifluoromethane	68.6	5.0	ug/kg	50.0		137	25-155			
1,1-Dichloroethane	50.9	2.0	ug/kg	50.0		102	65-130			
1,2-Dichloroethane	44.4	2.0	ug/kg	50.0		89	60-140			
1,1-Dichloroethene	51.0	5.0	ug/kg	50.0		102	70-130			
cis-1,2-Dichloroethene	51.1	2.0	ug/kg	50.0		102	65-125			
trans-1,2-Dichloroethene	54.6	2.0	ug/kg	50.0		109	65-130			
1,2-Dichloropropane	52.9	2.0	ug/kg	50.0		106	65-125			
1,3-Dichloropropane	53.6	2.0	ug/kg	50.0		107	65-125			
2,2-Dichloropropane	56.7	2.0	ug/kg	50.0		113	60-145			
1,1-Dichloropropene	52.5	2.0	ug/kg	50.0		105	70-130			
cis-1,3-Dichloropropene	52.0	2.0	ug/kg	50.0		104	70-130			
trans-1,3-Dichloropropene	46.2	2.0	ug/kg	50.0		92	65-135			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0464

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
LCS Analyzed: 08/08/2006 (6H08007-BS1)										
Ethylbenzene	59.6	2.0	ug/kg	50.0		119	70-125			
Hexachlorobutadiene	46.0	5.0	ug/kg	50.0		92	60-135			
Isopropylbenzene	60.9	2.0	ug/kg	50.0		122	70-125			
p-Isopropyltoluene	53.9	2.0	ug/kg	50.0		108	70-125			
Methylene chloride	46.2	20	ug/kg	50.0		92	60-130			
Naphthalene	52.4	5.0	ug/kg	50.0		105	50-140			
n-Propylbenzene	57.6	2.0	ug/kg	50.0		115	70-125			
Styrene	52.4	2.0	ug/kg	50.0		105	70-130			
1,1,1,2-Tetrachloroethane	48.3	5.0	ug/kg	50.0		97	70-135			
1,1,2,2-Tetrachloroethane	44.3	2.0	ug/kg	50.0		89	55-140			
Tetrachloroethene	55.8	2.0	ug/kg	50.0		112	65-125			
Toluene	52.1	2.0	ug/kg	50.0		104	70-125			
1,2,3-Trichlorobenzene	49.8	5.0	ug/kg	50.0		100	60-130			
1,2,4-Trichlorobenzene	51.6	5.0	ug/kg	50.0		103	65-135			
1,1,1-Trichloroethane	53.6	2.0	ug/kg	50.0		107	65-135			
1,1,2-Trichloroethane	44.8	2.0	ug/kg	50.0		90	65-130			
Trichloroethene	45.4	2.0	ug/kg	50.0		91	70-125			
Trichlorofluoromethane	61.6	5.0	ug/kg	50.0		123	60-140			
1,2,3-Trichloropropane	50.5	10	ug/kg	50.0		101	55-135			
1,2,4-Trimethylbenzene	54.8	2.0	ug/kg	50.0		110	70-125			
1,3,5-Trimethylbenzene	54.8	2.0	ug/kg	50.0		110	70-125			
Vinyl chloride	60.7	5.0	ug/kg	50.0		121	50-130			
o-Xylene	55.2	2.0	ug/kg	50.0		110	70-125			
m,p-Xylenes	114	2.0	ug/kg	100		114	70-125			
Surrogate: Dibromofluoromethane	47.0		ug/kg	50.0		94	80-125			
Surrogate: Toluene-d8	48.2		ug/kg	50.0		96	80-120			
Surrogate: 4-Bromofluorobenzene	50.3		ug/kg	50.0		101	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0464

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06									
Matrix Spike Analyzed: 08/08/2006 (6H08007-MS1)					Source: IPH0467-01				
Benzene	61.6	2.1	ug/kg	51.4	ND	120	65-130		
Bromobenzene	78.1	5.1	ug/kg	51.4	ND	152	70-135		A-01, I, M1
Bromochloromethane	69.3	5.1	ug/kg	51.4	ND	135	65-140		
Bromodichloromethane	62.1	2.1	ug/kg	51.4	ND	121	65-140		
Bromoform	52.9	5.1	ug/kg	51.4	ND	103	50-140		
Bromomethane	66.0	5.1	ug/kg	51.4	ND	128	55-150		
n-Butylbenzene	45.5	5.1	ug/kg	51.4	ND	89	55-140		A-01, I
sec-Butylbenzene	56.7	5.1	ug/kg	51.4	ND	110	65-130		A-01, I
tert-Butylbenzene	63.5	5.1	ug/kg	51.4	ND	124	65-135		A-01, I
Carbon tetrachloride	57.6	5.1	ug/kg	51.4	ND	112	65-140		
Chlorobenzene	54.7	2.1	ug/kg	51.4	ND	106	70-125		
Chloroethane	67.5	5.1	ug/kg	51.4	ND	131	55-145		
Chloroform	60.7	2.1	ug/kg	51.4	ND	118	65-130		
Chloromethane	69.9	5.1	ug/kg	51.4	ND	136	35-140		
2-Chlorotoluene	73.1	5.1	ug/kg	51.4	ND	142	65-130		A-01, I, M1
4-Chlorotoluene	71.1	5.1	ug/kg	51.4	ND	138	70-130		A-01, I, M1
Dibromochloromethane	59.1	2.1	ug/kg	51.4	ND	115	65-140		
1,2-Dibromo-3-chloropropane	91.4	5.1	ug/kg	51.4	ND	178	45-145		A-01, I, M1
1,2-Dibromoethane (EDB)	70.7	2.1	ug/kg	51.4	ND	138	65-135		M1
Dibromomethane	67.8	2.1	ug/kg	51.4	ND	132	65-135		
1,2-Dichlorobenzene	55.6	2.1	ug/kg	51.4	ND	108	70-130		A-01, I
1,3-Dichlorobenzene	58.6	2.1	ug/kg	51.4	ND	114	70-125		A-01, I
1,4-Dichlorobenzene	56.2	2.1	ug/kg	51.4	ND	109	70-125		A-01, I
Dichlorodifluoromethane	74.4	5.1	ug/kg	51.4	ND	145	25-155		
1,1-Dichloroethane	60.7	2.1	ug/kg	51.4	ND	118	65-130		
1,2-Dichloroethane	60.4	2.1	ug/kg	51.4	ND	118	60-145		
1,1-Dichloroethene	56.3	5.1	ug/kg	51.4	ND	110	65-135		
cis-1,2-Dichloroethene	62.3	2.1	ug/kg	51.4	ND	121	65-130		
trans-1,2-Dichloroethene	60.3	2.1	ug/kg	51.4	ND	117	65-135		
1,2-Dichloropropane	62.5	2.1	ug/kg	51.4	ND	122	65-125		
1,3-Dichloropropane	68.6	2.1	ug/kg	51.4	ND	133	65-135		
2,2-Dichloropropane	65.7	2.1	ug/kg	51.4	ND	128	60-145		
1,1-Dichloropropene	58.4	2.1	ug/kg	51.4	ND	114	65-135		
cis-1,3-Dichloropropene	60.1	2.1	ug/kg	51.4	ND	117	70-130		
trans-1,3-Dichloropropene	56.3	2.1	ug/kg	51.4	ND	110	65-140		

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Matrix Spike Analyzed: 08/08/2006 (6H08007-MS1)					Source: IPH0467-01					
Ethylbenzene	55.6	2.1	ug/kg	51.4	ND	108	70-130			
Hexachlorobutadiene	21.7	5.1	ug/kg	51.4	ND	42	55-140			A-01, I, M2
Isopropylbenzene	91.8	2.1	ug/kg	51.4	ND	179	65-140			A-01, I, M1
p-Isopropyltoluene	53.8	2.1	ug/kg	51.4	ND	105	60-135			A-01, I
Methylene chloride	59.2	21	ug/kg	51.4	ND	115	60-140			
Naphthalene	32.0	5.1	ug/kg	51.4	ND	62	40-155			A-01, I
n-Propylbenzene	76.7	2.1	ug/kg	51.4	ND	149	65-140			A-01, I, M1
Styrene	46.9	2.1	ug/kg	51.4	ND	91	70-140			
1,1,1,2-Tetrachloroethane	53.0	5.1	ug/kg	51.4	ND	103	70-140			
1,1,2,2-Tetrachloroethane	91.7	2.1	ug/kg	51.4	ND	178	45-155			A-01, I, M1
Tetrachloroethene	53.5	2.1	ug/kg	51.4	ND	104	65-135			
Toluene	59.3	2.1	ug/kg	51.4	ND	115	70-125			
1,2,3-Trichlorobenzene	22.7	5.1	ug/kg	51.4	ND	44	50-140			A-01, I, M2
1,2,4-Trichlorobenzene	27.3	5.1	ug/kg	51.4	ND	53	55-135			A-01, I, M2
1,1,1-Trichloroethane	59.0	2.1	ug/kg	51.4	ND	115	65-140			
1,1,2-Trichloroethane	59.0	2.1	ug/kg	51.4	ND	115	65-135			
Trichloroethene	51.2	2.1	ug/kg	51.4	ND	100	70-135			
Trichlorofluoromethane	66.4	5.1	ug/kg	51.4	ND	129	50-150			
1,2,3-Trichloropropane	113	10	ug/kg	51.4	ND	220	55-145			A-01, I, M1
1,2,4-Trimethylbenzene	68.8	2.1	ug/kg	51.4	ND	134	65-135			A-01, I
1,3,5-Trimethylbenzene	70.5	2.1	ug/kg	51.4	ND	137	70-130			A-01, I, M1
Vinyl chloride	67.1	5.1	ug/kg	51.4	ND	131	50-135			
o-Xylene	53.5	2.1	ug/kg	51.4	ND	104	70-125			
m,p-Xylenes	113	2.1	ug/kg	103	ND	110	70-125			
Surrogate: Dibromofluoromethane	51.6		ug/kg	51.4		100	80-125			
Surrogate: Toluene-d8	50.6		ug/kg	51.4		98	80-120			
Surrogate: 4-Bromofluorobenzene	39.4		ug/kg	51.4		77	80-120			A-01, Z

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0464

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Matrix Spike Dup Analyzed: 08/08/2006 (6H08007-MSD1)					Source: IPH0467-01					
Benzene	57.7	2.0	ug/kg	51.1	ND	113	65-130	7	20	
Bromobenzene	82.0	5.1	ug/kg	51.1	ND	160	70-135	5	25	A-01, I, M1
Bromochloromethane	55.4	5.1	ug/kg	51.1	ND	108	65-140	22	25	
Bromodichloromethane	50.9	2.0	ug/kg	51.1	ND	100	65-140	20	20	
Bromoform	38.0	5.1	ug/kg	51.1	ND	74	50-140	33	30	R-3
Bromomethane	62.2	5.1	ug/kg	51.1	ND	122	55-150	6	25	
n-Butylbenzene	52.7	5.1	ug/kg	51.1	ND	103	55-140	15	30	A-01, I
sec-Butylbenzene	69.3	5.1	ug/kg	51.1	ND	136	65-130	20	25	A-01, I, M1
tert-Butylbenzene	77.4	5.1	ug/kg	51.1	ND	151	65-135	20	25	A-01, I, M1
Carbon tetrachloride	55.3	5.1	ug/kg	51.1	ND	108	65-140	4	25	
Chlorobenzene	51.6	2.0	ug/kg	51.1	ND	101	70-125	6	25	
Chloroethane	63.7	5.1	ug/kg	51.1	ND	125	55-145	6	25	
Chloroform	55.6	2.0	ug/kg	51.1	ND	109	65-130	9	20	
Chloromethane	67.1	5.1	ug/kg	51.1	ND	131	35-140	4	25	
2-Chlorotoluene	81.9	5.1	ug/kg	51.1	ND	160	65-130	11	25	A-01, I, M1
4-Chlorotoluene	77.0	5.1	ug/kg	51.1	ND	151	70-130	8	25	A-01, I, M1
Dibromochloromethane	50.1	2.0	ug/kg	51.1	ND	98	65-140	16	25	
1,2-Dibromo-3-chloropropane	62.0	5.1	ug/kg	51.1	ND	121	45-145	38	30	A-01, I, R-3
1,2-Dibromoethane (EDB)	55.8	2.0	ug/kg	51.1	ND	109	65-135	24	25	
Dibromomethane	50.3	2.0	ug/kg	51.1	ND	98	65-135	30	25	R
1,2-Dichlorobenzene	50.3	2.0	ug/kg	51.1	ND	98	70-130	10	25	A-01, I
1,3-Dichlorobenzene	57.6	2.0	ug/kg	51.1	ND	113	70-125	2	25	A-01, I
1,4-Dichlorobenzene	55.9	2.0	ug/kg	51.1	ND	109	70-125	1	25	A-01, I
Dichlorodifluoromethane	74.6	5.1	ug/kg	51.1	ND	146	25-155	0	35	
1,1-Dichloroethane	56.7	2.0	ug/kg	51.1	ND	111	65-130	7	25	
1,2-Dichloroethane	47.4	2.0	ug/kg	51.1	ND	93	60-145	24	25	
1,1-Dichloroethene	55.4	5.1	ug/kg	51.1	ND	108	65-135	2	25	
cis-1,2-Dichloroethene	57.4	2.0	ug/kg	51.1	ND	112	65-130	8	25	
trans-1,2-Dichloroethene	57.8	2.0	ug/kg	51.1	ND	113	65-135	4	25	
1,2-Dichloropropane	54.9	2.0	ug/kg	51.1	ND	107	65-125	13	20	
1,3-Dichloropropane	60.7	2.0	ug/kg	51.1	ND	119	65-135	12	25	
2,2-Dichloropropane	61.6	2.0	ug/kg	51.1	ND	121	60-145	6	25	
1,1-Dichloropropene	57.1	2.0	ug/kg	51.1	ND	112	65-135	2	20	
cis-1,3-Dichloropropene	49.4	2.0	ug/kg	51.1	ND	97	70-130	20	25	
trans-1,3-Dichloropropene	41.7	2.0	ug/kg	51.1	ND	82	65-140	30	25	R-3

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Matrix Spike Dup Analyzed: 08/08/2006 (6H08007-MSD1)					Source: IPH0467-01					
Ethylbenzene	56.9	2.0	ug/kg	51.1	ND	111	70-130	2	25	
Hexachlorobutadiene	23.8	5.1	ug/kg	51.1	ND	47	55-140	9	35	A-01, I, M2
Isopropylbenzene	113	2.0	ug/kg	51.1	ND	221	65-140	21	25	A-01, I, M1
p-Isopropyltoluene	63.8	2.0	ug/kg	51.1	ND	125	60-135	17	25	A-01, I
Methylene chloride	52.6	20	ug/kg	51.1	ND	103	60-140	12	25	
Naphthalene	25.7	5.1	ug/kg	51.1	ND	50	40-155	22	40	A-01, I
n-Propylbenzene	94.2	2.0	ug/kg	51.1	ND	184	65-140	20	25	A-01, I, M1
Styrene	42.1	2.0	ug/kg	51.1	ND	82	70-140	11	25	
1,1,1,2-Tetrachloroethane	48.1	5.1	ug/kg	51.1	ND	94	70-140	10	20	
1,1,2,2-Tetrachloroethane	76.4	2.0	ug/kg	51.1	ND	150	45-155	18	30	A-01, I, M1
Tetrachloroethene	55.6	2.0	ug/kg	51.1	ND	109	65-135	4	25	
Toluene	52.6	2.0	ug/kg	51.1	ND	103	70-125	12	20	
1,2,3-Trichlorobenzene	16.8	5.1	ug/kg	51.1	ND	33	50-140	30	30	A-01, I, M2
1,2,4-Trichlorobenzene	22.3	5.1	ug/kg	51.1	ND	44	55-135	20	30	A-01, I, M2
1,1,1-Trichloroethane	57.0	2.0	ug/kg	51.1	ND	112	65-140	3	20	
1,1,2-Trichloroethane	41.2	2.0	ug/kg	51.1	ND	81	65-135	36	30	R-3
Trichloroethene	48.1	2.0	ug/kg	51.1	ND	94	70-135	6	25	
Trichlorofluoromethane	65.7	5.1	ug/kg	51.1	ND	129	50-150	1	25	
1,2,3-Trichloropropane	96.8	10	ug/kg	51.1	ND	189	55-145	15	30	A-01, I, M1
1,2,4-Trimethylbenzene	76.6	2.0	ug/kg	51.1	ND	150	65-135	11	25	A-01, I, M1
1,3,5-Trimethylbenzene	83.8	2.0	ug/kg	51.1	ND	164	70-130	17	25	A-01, I, M1
Vinyl chloride	66.7	5.1	ug/kg	51.1	ND	131	50-135	1	30	
o-Xylene	52.4	2.0	ug/kg	51.1	ND	103	70-125	2	25	
m,p-Xylenes	106	2.0	ug/kg	102	ND	104	70-125	6	25	
Surrogate: Dibromofluoromethane	49.5		ug/kg	51.1		97	80-125			
Surrogate: Toluene-d8	47.9		ug/kg	51.1		94	80-120			
Surrogate: 4-Bromofluorobenzene	34.0		ug/kg	51.1		67	80-120			A-01, Z

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H07102 Extracted: 08/07/06										
Blank Analyzed: 08/08/2006 (6H07102-BLK1)										
Antimony	ND	10	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	0.50	mg/kg							
Cadmium	ND	0.50	mg/kg							
Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Selenium	ND	2.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	5.0	mg/kg							
LCS Analyzed: 08/08/2006 (6H07102-BS1)										
Antimony	46.8	10	mg/kg	50.0		94	80-120			
Arsenic	44.2	2.0	mg/kg	50.0		88	80-120			
Barium	42.1	1.0	mg/kg	50.0		84	80-120			
Beryllium	44.3	0.50	mg/kg	50.0		89	80-120			
Cadmium	42.8	0.50	mg/kg	50.0		86	80-120			
Chromium	43.0	1.0	mg/kg	50.0		86	80-120			
Cobalt	43.3	1.0	mg/kg	50.0		87	80-120			
Copper	44.7	2.0	mg/kg	50.0		89	80-120			
Lead	44.6	2.0	mg/kg	50.0		89	80-120			
Molybdenum	41.7	2.0	mg/kg	50.0		83	80-120			
Nickel	42.5	2.0	mg/kg	50.0		85	80-120			
Selenium	43.9	2.0	mg/kg	50.0		88	80-120			
Silver	22.3	1.0	mg/kg	25.0		89	80-120			
Thallium	44.2	10	mg/kg	50.0		88	80-120			
Vanadium	42.4	1.0	mg/kg	50.0		85	80-120			
Zinc	50.4	5.0	mg/kg	50.0		101	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07102 Extracted: 08/07/06										
Matrix Spike Analyzed: 08/08/2006 (6H07102-MS1)					Source: IPH0575-03					
Antimony	29.1	10	mg/kg	49.8	ND	58	75-125			M2
Arsenic	41.1	2.0	mg/kg	49.8	1.2	80	75-125			
Barium	68.1	1.0	mg/kg	49.8	30	77	75-125			
Beryllium	41.1	0.50	mg/kg	49.8	ND	83	75-125			
Cadmium	39.2	0.50	mg/kg	49.8	ND	79	75-125			
Chromium	43.6	1.0	mg/kg	49.8	4.7	78	75-125			
Cobalt	42.7	1.0	mg/kg	49.8	2.4	81	75-125			
Copper	47.1	2.0	mg/kg	49.8	4.8	85	75-125			
Lead	41.9	2.0	mg/kg	49.8	2.3	80	75-125			
Molybdenum	38.8	2.0	mg/kg	49.8	ND	78	75-125			
Nickel	41.8	2.0	mg/kg	49.8	3.0	78	75-125			
Selenium	37.7	2.0	mg/kg	49.8	ND	76	75-125			
Silver	21.0	1.0	mg/kg	24.9	0.40	83	75-125			
Thallium	40.4	10	mg/kg	49.8	ND	81	75-125			
Vanadium	52.5	1.0	mg/kg	49.8	15	75	75-125			
Zinc	54.7	5.0	mg/kg	49.8	16	78	75-125			
Matrix Spike Dup Analyzed: 08/08/2006 (6H07102-MSD1)					Source: IPH0575-03					
Antimony	28.3	10	mg/kg	49.8	ND	57	75-125	3	20	M2
Arsenic	40.4	2.0	mg/kg	49.8	1.2	79	75-125	2	20	
Barium	66.1	1.0	mg/kg	49.8	30	72	75-125	3	20	M2
Beryllium	40.0	0.50	mg/kg	49.8	ND	80	75-125	3	20	
Cadmium	38.1	0.50	mg/kg	49.8	ND	77	75-125	3	20	
Chromium	42.7	1.0	mg/kg	49.8	4.7	76	75-125	2	20	
Cobalt	42.0	1.0	mg/kg	49.8	2.4	80	75-125	2	20	
Copper	45.4	2.0	mg/kg	49.8	4.8	82	75-125	4	20	
Lead	41.4	2.0	mg/kg	49.8	2.3	79	75-125	1	20	
Molybdenum	38.3	2.0	mg/kg	49.8	ND	77	75-125	1	20	
Nickel	40.5	2.0	mg/kg	49.8	3.0	75	75-125	3	20	
Selenium	37.5	2.0	mg/kg	49.8	ND	75	75-125	1	20	
Silver	20.2	1.0	mg/kg	24.9	0.40	80	75-125	4	20	
Thallium	40.2	10	mg/kg	49.8	ND	81	75-125	1	20	
Vanadium	50.3	1.0	mg/kg	49.8	15	71	75-125	4	20	M2
Zinc	53.3	5.0	mg/kg	49.8	16	75	75-125	3	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0464

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08118 Extracted: 08/08/06										
Blank Analyzed: 08/09/2006 (6H08118-BLK1)										
Mercury	ND	0.020	mg/kg							
LCS Analyzed: 08/09/2006 (6H08118-BS1)										
Mercury	0.759	0.020	mg/kg	0.800		95	85-120			
Matrix Spike Analyzed: 08/09/2006 (6H08118-MS1)										
Mercury	0.743	0.020	mg/kg	0.800	0.011	91	65-135			
Matrix Spike Dup Analyzed: 08/09/2006 (6H08118-MSD1)										
Mercury	0.735	0.020	mg/kg	0.800	0.011	90	65-135	1	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06

Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10151 Extracted: 08/10/06										
Duplicate Analyzed: 08/10/2006 (6H10151-DUP1)										
Percent Moisture	86.9	0.10	%		87			0	20	
					Source: IPH0452-01					

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06
Received: 08/03/06

DATA QUALIFIERS AND DEFINITIONS

- A-01** Matrix interferences confirmed in all three SA,MS&MSD runs.
- A-01a** Matrix interferences confirmed.GCMS#55 8/7/2006.
- I** Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R** The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
- R-3** The RPD exceeded the method control limit due to sample matrix effects.
- Z** Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0464

Sampled: 07/28/06

Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		
EPA 6010B	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
Haz Waste Scree	Soil		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-Haz. Waste

Samples: IPH0464-01

TestAmerica - Irvine, CA

Lisa Reightley For Michele Chamberlin

Project Manager

1 me
8/7/06

Michele Chamberlin

From: Eric S Tsai [Eric.S.Tsai@us.mwhglobal.com]
Sent: Friday, August 04, 2006 10:55 AM
To: Michele Chamberlin
Cc: Banaga, Richard M
Subject: Re: R2A Pond sampling next week

Hi Michele,

Per our discussion today, we'll be sampling on Thursday next week and for all subsequent weeks.



Also, the COC's that I submitted to you were incorrect. If you could analyze for Title 22 metals instead of Total Recoverable metals for all of the hazardous waste characterization samples of the filter media, that would be much appreciated.

Thanks!

Regards.

Eric Tsai

Eric Tsai, EIT
Associate Engineer
MWH, Pasadena
Phone: (626) 568-6277
Fax: (626) 568-6101
Eric.S.Tsai@Mwhglobal.com

"Michele Chamberlin" <mchamberlin@testamericainc.com>

"Michele Chamberlin"
<mchamberlin@testamericainc.com>

08/04/2006 10:10 AM

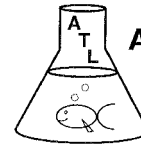
To"Eric S Tsai"
<Eric.S.Tsai@us.mwhglobal.com>,
"Banaga, Richard M"
<richard.m.banaga@boeing.com>
cc
SubjectR2A Pond sampling next week

Hi Eric/Rick,

When do you plan on sampling this next week? Please let me know so that I can add you to the schedule.

Thanks and have a good day.

LABORATORY REPORT



**Aquatic
Testing
Laboratories**

"dedicated to providing quality aquatic toxicity testing"

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Date: August 12, 2006
Client: Del Mar Analytical, Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Michele Chamberlin

Laboratory No.: A-06080708-001
Sample ID.: IPH0464-01

Sample Control: The samples were received by ATL in a chilled state, with the chain of custody record attached.

Date Sampled: 07/28/06
Date Received: 08/07/06
Date Tested: 08/07/06 to 08/12/06

Sample Analysis: The following analyses were performed on your sample:

CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay (Polisini & Miller 1988).

Attached are the test data generated from the analysis of your sample.

Result Summary:

<u>Sample ID.</u>	<u>Results</u>
IPH0464-01	PASSED (LC50 > 750 mg/l)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

**FATHEAD MINNOW HAZARDOUS WASTE
SCREEN BIOASSAY**



Lab No.: A06080708-001

Client/ID: Test America 1PH0464-01

TEST SUMMARY

Species: *Pimephales promelas*.
 Fish length (mm): av: 26; min: 24; max: 28.
 Fish weight (gm): av: 0.36; min: 0.28; max: 0.42.
 Test chamber volume: 10 liters.
 Temperature: 20 +/- 2°C.
 Aeration: Single bubble through narrow bore tube.
 Number of replicates: 2.
 Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO₃).
 QA/QC Batch No.: RT-060724.

Source: In-lab culture.
 Regulations: CCR Title 22.
 Test Protocol: California F&G/DHS 1988.
 Endpoints: Survival at 96 hrs.
 Test type: Static.
 Feeding: None.
 Number of fish per chamber: 10.
 Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D
Date/Time:	8-8-06 1100				8-9-06 1000				8-10-06 1100				8-11-06 1200				8-12-06 1100			
Analyst:	Rv				Rv				Rv				Rv				Rv			
Control A	19.8	8.0	7.3	0	20.4	8.0	7.0	0	20.4	7.9	6.9	0	20.5	8.0	6.9	0	20.5	8.1	7.0	0
Control B	19.7	8.1	7.3	0	20.3	7.6	7.0	0	20.3	7.6	6.9	0	20.4	7.7	6.9	0	20.4	7.8	7.1	0
400 mg/l A	19.6	8.2	7.4	0	20.2	8.3	7.0	0	20.3	8.2	7.1	0	20.5	8.3	7.1	0	20.3	8.2	7.1	0
400 mg/l B	19.5	8.2	7.4	0	20.2	8.4	7.0	0	20.3	8.5	7.1	0	20.4	8.6	7.1	0	20.2	8.4	7.2	0
750 mg/l A	19.5	8.1	7.4	0	20.1	8.2	7.0	0	20.2	8.4	7.1	0	20.4	8.4	7.1	0	20.2	8.1	7.1	0
750 mg/l B	19.4	8.1	7.4	0	20.1	8.4	7.0	0	20.2	8.5	7.1	0	20.3	8.5	7.1	0	20.1	8.3	7.1	0
Comments:	Extraction method: Mechanical shaking <input checked="" type="checkbox"/> . None (aqueous solution) <input type="checkbox"/> .																			

	CONTROL		HIGH CONCENTRATION		Total Number Dead	
	Alkalinity	Hardness	Alkalinity	Hardness	Control	400 mg/l
Initial	25 mg/l CaCO ₃	45 mg/l CaCO ₃	25 mg/l CaCO ₃	46 mg/l CaCO ₃	0	0
Final	26 mg/l CaCO ₃	46 mg/l CaCO ₃	26 mg/l CaCO ₃	46 mg/l CaCO ₃	0	0

RESULTS

✓ (one)	Result	Description
X	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
—	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
—	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPH0464

SENDING LABORATORY:

TestAmerica - Irvine, CA
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone : (805) 650-0546
Fax: (805) 650-0756

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IPH0464-01 Soil Bioassay-Haz. Waste	08/04/06 08:35	Sub to AqTox

Containers Supplied:
2 oz jar (IPH0464-01B)

SAMPLE INTEGRITY:

All containers intact: Yes No
Custody Seals Present: Yes No
Sample labels/COC agree: Yes No
Samples Preserved Properly: Yes No
Samples Received On Ice: Yes No
Samples Received at (temp): 22C

Released By: [Signature] 8/7/06 0700 Received By: [Signature] 8/7/06 0700

Released By: [Signature] 8/7/06 12:08 Received By: [Signature] 8/7/06 1200

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Storage Tanks

Sampled: 07/28/06
Received: 08/03/06
Issued: 08/16/06 14:19

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID
IPH0465-01

CLIENT ID
Z-WC-2

MATRIX
Soil

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06

Received: 08/03/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0465-01 (Z-WC-2 - Soil)								
Reporting Units: ug/kg								
Benzene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Bromobenzene	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
Bromochloromethane	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
Bromodichloromethane	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Bromoform	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
Bromomethane	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
n-Butylbenzene	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
sec-Butylbenzene	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
tert-Butylbenzene	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
Carbon tetrachloride	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
Chlorobenzene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Chloroethane	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
Chloroform	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Chloromethane	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
2-Chlorotoluene	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
4-Chlorotoluene	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
Dibromochloromethane	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
1,2-Dibromo-3-chloropropane	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
1,2-Dibromoethane (EDB)	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Dibromomethane	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
1,2-Dichlorobenzene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
1,3-Dichlorobenzene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
1,4-Dichlorobenzene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Dichlorodifluoromethane	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
1,1-Dichloroethane	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
1,2-Dichloroethane	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
1,1-Dichloroethene	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
cis-1,2-Dichloroethene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
trans-1,2-Dichloroethene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
1,2-Dichloropropane	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
1,3-Dichloropropane	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
2,2-Dichloropropane	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
1,1-Dichloropropene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
cis-1,3-Dichloropropene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
trans-1,3-Dichloropropene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Ethylbenzene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Hexachlorobutadiene	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
Isopropylbenzene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
p-Isopropyltoluene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Methylene chloride	EPA 8260B	6H08007	21	ND	1.06	8/8/2006	8/8/2006	
Naphthalene	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06

Received: 08/03/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0465-01 (Z-WC-2 - Soil) - cont.								
Reporting Units: ug/kg								
n-Propylbenzene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Styrene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
1,1,1,2-Tetrachloroethane	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
1,1,2,2-Tetrachloroethane	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Tetrachloroethene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Toluene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
1,2,3-Trichlorobenzene	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
1,2,4-Trichlorobenzene	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
1,1,1-Trichloroethane	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
1,1,2-Trichloroethane	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Trichloroethene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Trichlorofluoromethane	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
1,2,3-Trichloropropane	EPA 8260B	6H08007	11	ND	1.06	8/8/2006	8/8/2006	
1,2,4-Trimethylbenzene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
1,3,5-Trimethylbenzene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Vinyl chloride	EPA 8260B	6H08007	5.3	ND	1.06	8/8/2006	8/8/2006	
o-Xylene	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
m,p-Xylenes	EPA 8260B	6H08007	2.1	ND	1.06	8/8/2006	8/8/2006	
Surrogate: Dibromofluoromethane (80-125%)				98 %				
Surrogate: Toluene-d8 (80-120%)				55 %				A-01a, ZX
Surrogate: 4-Bromofluorobenzene (80-120%)				135 %				A-01a, ZX

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06

Received: 08/03/06

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0465-01 (Z-WC-2 - Soil)								
Reporting Units: mg/kg								
Antimony	EPA 6010B	6H07102	10	ND	0.995	8/7/2006	8/8/2006	
Arsenic	EPA 6010B	6H07102	2.0	4.0	0.995	8/7/2006	8/8/2006	
Barium	EPA 6010B	6H07102	1.0	490	0.995	8/7/2006	8/8/2006	
Beryllium	EPA 6010B	6H07102	0.50	1.5	0.995	8/7/2006	8/8/2006	
Cadmium	EPA 6010B	6H07102	0.50	ND	0.995	8/7/2006	8/8/2006	
Chromium	EPA 6010B	6H07102	1.0	ND	0.995	8/7/2006	8/8/2006	
Cobalt	EPA 6010B	6H07102	1.0	ND	0.995	8/7/2006	8/8/2006	
Copper	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Lead	EPA 6010B	6H07102	2.0	6.4	0.995	8/7/2006	8/8/2006	
Mercury	EPA 7471A	6H08118	0.020	ND	1	8/8/2006	8/9/2006	
Molybdenum	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Nickel	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Selenium	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Silver	EPA 6010B	6H07102	1.0	ND	0.995	8/7/2006	8/8/2006	
Thallium	EPA 6010B	6H07102	10	ND	0.995	8/7/2006	8/8/2006	
Vanadium	EPA 6010B	6H07102	1.0	3.3	0.995	8/7/2006	8/8/2006	
Zinc	EPA 6010B	6H07102	5.0	18	0.995	8/7/2006	8/8/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06

Received: 08/03/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0465-01 (Z-WC-2 - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6H10151	0.10	29	1	8/10/2006	8/10/2006	

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06

Received: 08/03/06

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

Analyte	Units	Sample Result	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	TCLP Max. Limit mg/L (ppm)
IPH0465-01 (Z-WC-2 - Soil) EPA 6010B					
Antimony	mg/kg	ND	15	500	
Arsenic	mg/kg	4.0	5.0	500	5.0
Barium	mg/kg	490	100	10000	100
Beryllium	mg/kg	1.5	0.75	75	
Cadmium	mg/kg	ND	1.0	100	1.0
Chromium	mg/kg	ND	5.0	2500	5.0
Cobalt	mg/kg	ND	80	8000	
Copper	mg/kg	ND	25	2500	
Lead	mg/kg	6.4	5.0	1000	5.0
Mercury	mg/kg	ND	0.20	20	0.20
Molybdenum	mg/kg	ND	350	3500	
Nickel	mg/kg	ND	20	2000	
Selenium	mg/kg	ND	1.0	100	1.0
Silver	mg/kg	ND	5.0	500	5.0
Thallium	mg/kg	ND	7.0	700	
Vanadium	mg/kg	3.3	24	2400	
Zinc	mg/kg	18	250	5000	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0465

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Blank Analyzed: 08/08/2006 (6H08007-BLK1)										
Benzene	ND	2.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	2.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	2.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	2.0	ug/kg							
Chloromethane	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
Dibromochloromethane	ND	2.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	2.0	ug/kg							
Dibromomethane	ND	2.0	ug/kg							
1,2-Dichlorobenzene	ND	2.0	ug/kg							
1,3-Dichlorobenzene	ND	2.0	ug/kg							
1,4-Dichlorobenzene	ND	2.0	ug/kg							
Dichlorodifluoromethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	2.0	ug/kg							
1,2-Dichloroethane	ND	2.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	2.0	ug/kg							
trans-1,2-Dichloroethene	ND	2.0	ug/kg							
1,2-Dichloropropane	ND	2.0	ug/kg							
1,3-Dichloropropane	ND	2.0	ug/kg							
2,2-Dichloropropane	ND	2.0	ug/kg							
1,1-Dichloropropene	ND	2.0	ug/kg							
cis-1,3-Dichloropropene	ND	2.0	ug/kg							
trans-1,3-Dichloropropene	ND	2.0	ug/kg							

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Blank Analyzed: 08/08/2006 (6H08007-BLK1)										
Ethylbenzene	ND	2.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	2.0	ug/kg							
p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	20	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Propylbenzene	ND	2.0	ug/kg							
Styrene	ND	2.0	ug/kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg							
Tetrachloroethene	ND	2.0	ug/kg							
Toluene	ND	2.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	2.0	ug/kg							
1,1,2-Trichloroethane	ND	2.0	ug/kg							
Trichloroethene	ND	2.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	10	ug/kg							
1,2,4-Trimethylbenzene	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
o-Xylene	ND	2.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
Surrogate: Dibromofluoromethane	47.9		ug/kg	50.0		96	80-125			
Surrogate: Toluene-d8	50.3		ug/kg	50.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	46.9		ug/kg	50.0		94	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0465

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
LCS Analyzed: 08/08/2006 (6H08007-BS1)										
Benzene	51.1	2.0	ug/kg	50.0		102	65-120			
Bromobenzene	49.3	5.0	ug/kg	50.0		99	70-120			
Bromochloromethane	52.5	5.0	ug/kg	50.0		105	65-130			
Bromodichloromethane	50.7	2.0	ug/kg	50.0		101	65-135			
Bromoform	49.9	5.0	ug/kg	50.0		100	50-135			
Bromomethane	58.1	5.0	ug/kg	50.0		116	60-145			
n-Butylbenzene	54.1	5.0	ug/kg	50.0		108	70-125			
sec-Butylbenzene	54.5	5.0	ug/kg	50.0		109	70-125			
tert-Butylbenzene	54.9	5.0	ug/kg	50.0		110	70-125			
Carbon tetrachloride	54.5	5.0	ug/kg	50.0		109	65-140			
Chlorobenzene	52.8	2.0	ug/kg	50.0		106	70-125			
Chloroethane	57.4	5.0	ug/kg	50.0		115	55-140			
Chloroform	52.1	2.0	ug/kg	50.0		104	65-130			
Chloromethane	60.4	5.0	ug/kg	50.0		121	40-140			
2-Chlorotoluene	51.3	5.0	ug/kg	50.0		103	70-125			
4-Chlorotoluene	52.8	5.0	ug/kg	50.0		106	70-125			
Dibromochloromethane	52.2	2.0	ug/kg	50.0		104	65-140			
1,2-Dibromo-3-chloropropane	52.9	5.0	ug/kg	50.0		106	45-140			
1,2-Dibromoethane (EDB)	55.2	2.0	ug/kg	50.0		110	70-130			
Dibromomethane	51.5	2.0	ug/kg	50.0		103	65-130			
1,2-Dichlorobenzene	52.3	2.0	ug/kg	50.0		105	70-120			
1,3-Dichlorobenzene	51.2	2.0	ug/kg	50.0		102	70-125			
1,4-Dichlorobenzene	50.4	2.0	ug/kg	50.0		101	70-125			
Dichlorodifluoromethane	68.6	5.0	ug/kg	50.0		137	25-155			
1,1-Dichloroethane	50.9	2.0	ug/kg	50.0		102	65-130			
1,2-Dichloroethane	44.4	2.0	ug/kg	50.0		89	60-140			
1,1-Dichloroethene	51.0	5.0	ug/kg	50.0		102	70-130			
cis-1,2-Dichloroethene	51.1	2.0	ug/kg	50.0		102	65-125			
trans-1,2-Dichloroethene	54.6	2.0	ug/kg	50.0		109	65-130			
1,2-Dichloropropane	52.9	2.0	ug/kg	50.0		106	65-125			
1,3-Dichloropropane	53.6	2.0	ug/kg	50.0		107	65-125			
2,2-Dichloropropane	56.7	2.0	ug/kg	50.0		113	60-145			
1,1-Dichloropropene	52.5	2.0	ug/kg	50.0		105	70-130			
cis-1,3-Dichloropropene	52.0	2.0	ug/kg	50.0		104	70-130			
trans-1,3-Dichloropropene	46.2	2.0	ug/kg	50.0		92	65-135			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
LCS Analyzed: 08/08/2006 (6H08007-BS1)										
Ethylbenzene	59.6	2.0	ug/kg	50.0		119	70-125			
Hexachlorobutadiene	46.0	5.0	ug/kg	50.0		92	60-135			
Isopropylbenzene	60.9	2.0	ug/kg	50.0		122	70-125			
p-Isopropyltoluene	53.9	2.0	ug/kg	50.0		108	70-125			
Methylene chloride	46.2	20	ug/kg	50.0		92	60-130			
Naphthalene	52.4	5.0	ug/kg	50.0		105	50-140			
n-Propylbenzene	57.6	2.0	ug/kg	50.0		115	70-125			
Styrene	52.4	2.0	ug/kg	50.0		105	70-130			
1,1,1,2-Tetrachloroethane	48.3	5.0	ug/kg	50.0		97	70-135			
1,1,2,2-Tetrachloroethane	44.3	2.0	ug/kg	50.0		89	55-140			
Tetrachloroethene	55.8	2.0	ug/kg	50.0		112	65-125			
Toluene	52.1	2.0	ug/kg	50.0		104	70-125			
1,2,3-Trichlorobenzene	49.8	5.0	ug/kg	50.0		100	60-130			
1,2,4-Trichlorobenzene	51.6	5.0	ug/kg	50.0		103	65-135			
1,1,1-Trichloroethane	53.6	2.0	ug/kg	50.0		107	65-135			
1,1,2-Trichloroethane	44.8	2.0	ug/kg	50.0		90	65-130			
Trichloroethene	45.4	2.0	ug/kg	50.0		91	70-125			
Trichlorofluoromethane	61.6	5.0	ug/kg	50.0		123	60-140			
1,2,3-Trichloropropane	50.5	10	ug/kg	50.0		101	55-135			
1,2,4-Trimethylbenzene	54.8	2.0	ug/kg	50.0		110	70-125			
1,3,5-Trimethylbenzene	54.8	2.0	ug/kg	50.0		110	70-125			
Vinyl chloride	60.7	5.0	ug/kg	50.0		121	50-130			
o-Xylene	55.2	2.0	ug/kg	50.0		110	70-125			
m,p-Xylenes	114	2.0	ug/kg	100		114	70-125			
Surrogate: Dibromofluoromethane	47.0		ug/kg	50.0		94	80-125			
Surrogate: Toluene-d8	48.2		ug/kg	50.0		96	80-120			
Surrogate: 4-Bromofluorobenzene	50.3		ug/kg	50.0		101	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Matrix Spike Analyzed: 08/08/2006 (6H08007-MS1)					Source: IPH0467-01					
Benzene	61.6	2.1	ug/kg	51.4	ND	120	65-130			
Bromobenzene	78.1	5.1	ug/kg	51.4	ND	152	70-135			A-01, I, M1
Bromochloromethane	69.3	5.1	ug/kg	51.4	ND	135	65-140			
Bromodichloromethane	62.1	2.1	ug/kg	51.4	ND	121	65-140			
Bromoform	52.9	5.1	ug/kg	51.4	ND	103	50-140			
Bromomethane	66.0	5.1	ug/kg	51.4	ND	128	55-150			
n-Butylbenzene	45.5	5.1	ug/kg	51.4	ND	89	55-140			A-01, I
sec-Butylbenzene	56.7	5.1	ug/kg	51.4	ND	110	65-130			A-01, I
tert-Butylbenzene	63.5	5.1	ug/kg	51.4	ND	124	65-135			A-01, I
Carbon tetrachloride	57.6	5.1	ug/kg	51.4	ND	112	65-140			
Chlorobenzene	54.7	2.1	ug/kg	51.4	ND	106	70-125			
Chloroethane	67.5	5.1	ug/kg	51.4	ND	131	55-145			
Chloroform	60.7	2.1	ug/kg	51.4	ND	118	65-130			
Chloromethane	69.9	5.1	ug/kg	51.4	ND	136	35-140			
2-Chlorotoluene	73.1	5.1	ug/kg	51.4	ND	142	65-130			A-01, I, M1
4-Chlorotoluene	71.1	5.1	ug/kg	51.4	ND	138	70-130			A-01, I, M1
Dibromochloromethane	59.1	2.1	ug/kg	51.4	ND	115	65-140			
1,2-Dibromo-3-chloropropane	91.4	5.1	ug/kg	51.4	ND	178	45-145			A-01, I, M1
1,2-Dibromoethane (EDB)	70.7	2.1	ug/kg	51.4	ND	138	65-135			M1
Dibromomethane	67.8	2.1	ug/kg	51.4	ND	132	65-135			
1,2-Dichlorobenzene	55.6	2.1	ug/kg	51.4	ND	108	70-130			A-01, I
1,3-Dichlorobenzene	58.6	2.1	ug/kg	51.4	ND	114	70-125			A-01, I
1,4-Dichlorobenzene	56.2	2.1	ug/kg	51.4	ND	109	70-125			A-01, I
Dichlorodifluoromethane	74.4	5.1	ug/kg	51.4	ND	145	25-155			
1,1-Dichloroethane	60.7	2.1	ug/kg	51.4	ND	118	65-130			
1,2-Dichloroethane	60.4	2.1	ug/kg	51.4	ND	118	60-145			
1,1-Dichloroethene	56.3	5.1	ug/kg	51.4	ND	110	65-135			
cis-1,2-Dichloroethene	62.3	2.1	ug/kg	51.4	ND	121	65-130			
trans-1,2-Dichloroethene	60.3	2.1	ug/kg	51.4	ND	117	65-135			
1,2-Dichloropropane	62.5	2.1	ug/kg	51.4	ND	122	65-125			
1,3-Dichloropropane	68.6	2.1	ug/kg	51.4	ND	133	65-135			
2,2-Dichloropropane	65.7	2.1	ug/kg	51.4	ND	128	60-145			
1,1-Dichloropropene	58.4	2.1	ug/kg	51.4	ND	114	65-135			
cis-1,3-Dichloropropene	60.1	2.1	ug/kg	51.4	ND	117	70-130			
trans-1,3-Dichloropropene	56.3	2.1	ug/kg	51.4	ND	110	65-140			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0465

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Matrix Spike Analyzed: 08/08/2006 (6H08007-MS1)					Source: IPH0467-01					
Ethylbenzene	55.6	2.1	ug/kg	51.4	ND	108	70-130			
Hexachlorobutadiene	21.7	5.1	ug/kg	51.4	ND	42	55-140			A-01, I, M2
Isopropylbenzene	91.8	2.1	ug/kg	51.4	ND	179	65-140			A-01, I, M1
p-Isopropyltoluene	53.8	2.1	ug/kg	51.4	ND	105	60-135			A-01, I
Methylene chloride	59.2	21	ug/kg	51.4	ND	115	60-140			
Naphthalene	32.0	5.1	ug/kg	51.4	ND	62	40-155			A-01, I
n-Propylbenzene	76.7	2.1	ug/kg	51.4	ND	149	65-140			A-01, I, M1
Styrene	46.9	2.1	ug/kg	51.4	ND	91	70-140			
1,1,1,2-Tetrachloroethane	53.0	5.1	ug/kg	51.4	ND	103	70-140			
1,1,2,2-Tetrachloroethane	91.7	2.1	ug/kg	51.4	ND	178	45-155			A-01, I, M1
Tetrachloroethene	53.5	2.1	ug/kg	51.4	ND	104	65-135			
Toluene	59.3	2.1	ug/kg	51.4	ND	115	70-125			
1,2,3-Trichlorobenzene	22.7	5.1	ug/kg	51.4	ND	44	50-140			A-01, I, M2
1,2,4-Trichlorobenzene	27.3	5.1	ug/kg	51.4	ND	53	55-135			A-01, I, M2
1,1,1-Trichloroethane	59.0	2.1	ug/kg	51.4	ND	115	65-140			
1,1,2-Trichloroethane	59.0	2.1	ug/kg	51.4	ND	115	65-135			
Trichloroethene	51.2	2.1	ug/kg	51.4	ND	100	70-135			
Trichlorofluoromethane	66.4	5.1	ug/kg	51.4	ND	129	50-150			
1,2,3-Trichloropropane	113	10	ug/kg	51.4	ND	220	55-145			A-01, I, M1
1,2,4-Trimethylbenzene	68.8	2.1	ug/kg	51.4	ND	134	65-135			A-01, I
1,3,5-Trimethylbenzene	70.5	2.1	ug/kg	51.4	ND	137	70-130			A-01, I, M1
Vinyl chloride	67.1	5.1	ug/kg	51.4	ND	131	50-135			
o-Xylene	53.5	2.1	ug/kg	51.4	ND	104	70-125			
m,p-Xylenes	113	2.1	ug/kg	103	ND	110	70-125			
Surrogate: Dibromofluoromethane	51.6		ug/kg	51.4		100	80-125			
Surrogate: Toluene-d8	50.6		ug/kg	51.4		98	80-120			
Surrogate: 4-Bromofluorobenzene	39.4		ug/kg	51.4		77	80-120			A-01, Z

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06

Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Matrix Spike Dup Analyzed: 08/08/2006 (6H08007-MSD1)					Source: IPH0467-01					
Benzene	57.7	2.0	ug/kg	51.1	ND	113	65-130	7	20	
Bromobenzene	82.0	5.1	ug/kg	51.1	ND	160	70-135	5	25	A-01, I, M1
Bromochloromethane	55.4	5.1	ug/kg	51.1	ND	108	65-140	22	25	
Bromodichloromethane	50.9	2.0	ug/kg	51.1	ND	100	65-140	20	20	
Bromoform	38.0	5.1	ug/kg	51.1	ND	74	50-140	33	30	R-3
Bromomethane	62.2	5.1	ug/kg	51.1	ND	122	55-150	6	25	
n-Butylbenzene	52.7	5.1	ug/kg	51.1	ND	103	55-140	15	30	A-01, I
sec-Butylbenzene	69.3	5.1	ug/kg	51.1	ND	136	65-130	20	25	A-01, I, M1
tert-Butylbenzene	77.4	5.1	ug/kg	51.1	ND	151	65-135	20	25	A-01, I, M1
Carbon tetrachloride	55.3	5.1	ug/kg	51.1	ND	108	65-140	4	25	
Chlorobenzene	51.6	2.0	ug/kg	51.1	ND	101	70-125	6	25	
Chloroethane	63.7	5.1	ug/kg	51.1	ND	125	55-145	6	25	
Chloroform	55.6	2.0	ug/kg	51.1	ND	109	65-130	9	20	
Chloromethane	67.1	5.1	ug/kg	51.1	ND	131	35-140	4	25	
2-Chlorotoluene	81.9	5.1	ug/kg	51.1	ND	160	65-130	11	25	A-01, I, M1
4-Chlorotoluene	77.0	5.1	ug/kg	51.1	ND	151	70-130	8	25	A-01, I, M1
Dibromochloromethane	50.1	2.0	ug/kg	51.1	ND	98	65-140	16	25	
1,2-Dibromo-3-chloropropane	62.0	5.1	ug/kg	51.1	ND	121	45-145	38	30	A-01, I, R-3
1,2-Dibromoethane (EDB)	55.8	2.0	ug/kg	51.1	ND	109	65-135	24	25	
Dibromomethane	50.3	2.0	ug/kg	51.1	ND	98	65-135	30	25	R
1,2-Dichlorobenzene	50.3	2.0	ug/kg	51.1	ND	98	70-130	10	25	A-01, I
1,3-Dichlorobenzene	57.6	2.0	ug/kg	51.1	ND	113	70-125	2	25	A-01, I
1,4-Dichlorobenzene	55.9	2.0	ug/kg	51.1	ND	109	70-125	1	25	A-01, I
Dichlorodifluoromethane	74.6	5.1	ug/kg	51.1	ND	146	25-155	0	35	
1,1-Dichloroethane	56.7	2.0	ug/kg	51.1	ND	111	65-130	7	25	
1,2-Dichloroethane	47.4	2.0	ug/kg	51.1	ND	93	60-145	24	25	
1,1-Dichloroethene	55.4	5.1	ug/kg	51.1	ND	108	65-135	2	25	
cis-1,2-Dichloroethene	57.4	2.0	ug/kg	51.1	ND	112	65-130	8	25	
trans-1,2-Dichloroethene	57.8	2.0	ug/kg	51.1	ND	113	65-135	4	25	
1,2-Dichloropropane	54.9	2.0	ug/kg	51.1	ND	107	65-125	13	20	
1,3-Dichloropropane	60.7	2.0	ug/kg	51.1	ND	119	65-135	12	25	
2,2-Dichloropropane	61.6	2.0	ug/kg	51.1	ND	121	60-145	6	25	
1,1-Dichloropropene	57.1	2.0	ug/kg	51.1	ND	112	65-135	2	20	
cis-1,3-Dichloropropene	49.4	2.0	ug/kg	51.1	ND	97	70-130	20	25	
trans-1,3-Dichloropropene	41.7	2.0	ug/kg	51.1	ND	82	65-140	30	25	R-3

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Matrix Spike Dup Analyzed: 08/08/2006 (6H08007-MSD1)					Source: IPH0467-01					
Ethylbenzene	56.9	2.0	ug/kg	51.1	ND	111	70-130	2	25	
Hexachlorobutadiene	23.8	5.1	ug/kg	51.1	ND	47	55-140	9	35	A-01, I, M2
Isopropylbenzene	113	2.0	ug/kg	51.1	ND	221	65-140	21	25	A-01, I, M1
p-Isopropyltoluene	63.8	2.0	ug/kg	51.1	ND	125	60-135	17	25	A-01, I
Methylene chloride	52.6	20	ug/kg	51.1	ND	103	60-140	12	25	
Naphthalene	25.7	5.1	ug/kg	51.1	ND	50	40-155	22	40	A-01, I
n-Propylbenzene	94.2	2.0	ug/kg	51.1	ND	184	65-140	20	25	A-01, I, M1
Styrene	42.1	2.0	ug/kg	51.1	ND	82	70-140	11	25	
1,1,1,2-Tetrachloroethane	48.1	5.1	ug/kg	51.1	ND	94	70-140	10	20	
1,1,2,2-Tetrachloroethane	76.4	2.0	ug/kg	51.1	ND	150	45-155	18	30	A-01, I, M1
Tetrachloroethene	55.6	2.0	ug/kg	51.1	ND	109	65-135	4	25	
Toluene	52.6	2.0	ug/kg	51.1	ND	103	70-125	12	20	
1,2,3-Trichlorobenzene	16.8	5.1	ug/kg	51.1	ND	33	50-140	30	30	A-01, I, M2
1,2,4-Trichlorobenzene	22.3	5.1	ug/kg	51.1	ND	44	55-135	20	30	A-01, I, M2
1,1,1-Trichloroethane	57.0	2.0	ug/kg	51.1	ND	112	65-140	3	20	
1,1,2-Trichloroethane	41.2	2.0	ug/kg	51.1	ND	81	65-135	36	30	R-3
Trichloroethene	48.1	2.0	ug/kg	51.1	ND	94	70-135	6	25	
Trichlorofluoromethane	65.7	5.1	ug/kg	51.1	ND	129	50-150	1	25	
1,2,3-Trichloropropane	96.8	10	ug/kg	51.1	ND	189	55-145	15	30	A-01, I, M1
1,2,4-Trimethylbenzene	76.6	2.0	ug/kg	51.1	ND	150	65-135	11	25	A-01, I, M1
1,3,5-Trimethylbenzene	83.8	2.0	ug/kg	51.1	ND	164	70-130	17	25	A-01, I, M1
Vinyl chloride	66.7	5.1	ug/kg	51.1	ND	131	50-135	1	30	
o-Xylene	52.4	2.0	ug/kg	51.1	ND	103	70-125	2	25	
m,p-Xylenes	106	2.0	ug/kg	102	ND	104	70-125	6	25	
Surrogate: Dibromofluoromethane	49.5		ug/kg	51.1		97	80-125			
Surrogate: Toluene-d8	47.9		ug/kg	51.1		94	80-120			
Surrogate: 4-Bromofluorobenzene	34.0		ug/kg	51.1		67	80-120			A-01, Z

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0465

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07102 Extracted: 08/07/06										
Blank Analyzed: 08/08/2006 (6H07102-BLK1)										
Antimony	ND	10	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	0.50	mg/kg							
Cadmium	ND	0.50	mg/kg							
Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Selenium	ND	2.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	5.0	mg/kg							
LCS Analyzed: 08/08/2006 (6H07102-BS1)										
Antimony	46.8	10	mg/kg	50.0		94	80-120			
Arsenic	44.2	2.0	mg/kg	50.0		88	80-120			
Barium	42.1	1.0	mg/kg	50.0		84	80-120			
Beryllium	44.3	0.50	mg/kg	50.0		89	80-120			
Cadmium	42.8	0.50	mg/kg	50.0		86	80-120			
Chromium	43.0	1.0	mg/kg	50.0		86	80-120			
Cobalt	43.3	1.0	mg/kg	50.0		87	80-120			
Copper	44.7	2.0	mg/kg	50.0		89	80-120			
Lead	44.6	2.0	mg/kg	50.0		89	80-120			
Molybdenum	41.7	2.0	mg/kg	50.0		83	80-120			
Nickel	42.5	2.0	mg/kg	50.0		85	80-120			
Selenium	43.9	2.0	mg/kg	50.0		88	80-120			
Silver	22.3	1.0	mg/kg	25.0		89	80-120			
Thallium	44.2	10	mg/kg	50.0		88	80-120			
Vanadium	42.4	1.0	mg/kg	50.0		85	80-120			
Zinc	50.4	5.0	mg/kg	50.0		101	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06

Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H07102 Extracted: 08/07/06										
Matrix Spike Analyzed: 08/08/2006 (6H07102-MS1)					Source: IPH0575-03					
Antimony	29.1	10	mg/kg	49.8	ND	58	75-125			M2
Arsenic	41.1	2.0	mg/kg	49.8	1.2	80	75-125			
Barium	68.1	1.0	mg/kg	49.8	30	77	75-125			
Beryllium	41.1	0.50	mg/kg	49.8	ND	83	75-125			
Cadmium	39.2	0.50	mg/kg	49.8	ND	79	75-125			
Chromium	43.6	1.0	mg/kg	49.8	4.7	78	75-125			
Cobalt	42.7	1.0	mg/kg	49.8	2.4	81	75-125			
Copper	47.1	2.0	mg/kg	49.8	4.8	85	75-125			
Lead	41.9	2.0	mg/kg	49.8	2.3	80	75-125			
Molybdenum	38.8	2.0	mg/kg	49.8	ND	78	75-125			
Nickel	41.8	2.0	mg/kg	49.8	3.0	78	75-125			
Selenium	37.7	2.0	mg/kg	49.8	ND	76	75-125			
Silver	21.0	1.0	mg/kg	24.9	0.40	83	75-125			
Thallium	40.4	10	mg/kg	49.8	ND	81	75-125			
Vanadium	52.5	1.0	mg/kg	49.8	15	75	75-125			
Zinc	54.7	5.0	mg/kg	49.8	16	78	75-125			
Matrix Spike Dup Analyzed: 08/08/2006 (6H07102-MSD1)					Source: IPH0575-03					
Antimony	28.3	10	mg/kg	49.8	ND	57	75-125	3	20	M2
Arsenic	40.4	2.0	mg/kg	49.8	1.2	79	75-125	2	20	
Barium	66.1	1.0	mg/kg	49.8	30	72	75-125	3	20	M2
Beryllium	40.0	0.50	mg/kg	49.8	ND	80	75-125	3	20	
Cadmium	38.1	0.50	mg/kg	49.8	ND	77	75-125	3	20	
Chromium	42.7	1.0	mg/kg	49.8	4.7	76	75-125	2	20	
Cobalt	42.0	1.0	mg/kg	49.8	2.4	80	75-125	2	20	
Copper	45.4	2.0	mg/kg	49.8	4.8	82	75-125	4	20	
Lead	41.4	2.0	mg/kg	49.8	2.3	79	75-125	1	20	
Molybdenum	38.3	2.0	mg/kg	49.8	ND	77	75-125	1	20	
Nickel	40.5	2.0	mg/kg	49.8	3.0	75	75-125	3	20	
Selenium	37.5	2.0	mg/kg	49.8	ND	75	75-125	1	20	
Silver	20.2	1.0	mg/kg	24.9	0.40	80	75-125	4	20	
Thallium	40.2	10	mg/kg	49.8	ND	81	75-125	1	20	
Vanadium	50.3	1.0	mg/kg	49.8	15	71	75-125	4	20	M2
Zinc	53.3	5.0	mg/kg	49.8	16	75	75-125	3	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06

Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08118 Extracted: 08/08/06										
Blank Analyzed: 08/09/2006 (6H08118-BLK1)										
Mercury	ND	0.020	mg/kg							
LCS Analyzed: 08/09/2006 (6H08118-BS1)										
Mercury	0.759	0.020	mg/kg	0.800		95	85-120			
Matrix Spike Analyzed: 08/09/2006 (6H08118-MS1)										
Mercury	0.743	0.020	mg/kg	0.800	0.011	91	65-135			
Matrix Spike Dup Analyzed: 08/09/2006 (6H08118-MSD1)										
Mercury	0.735	0.020	mg/kg	0.800	0.011	90	65-135	1	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06

Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10151 Extracted: 08/10/06										
Duplicate Analyzed: 08/10/2006 (6H10151-DUP1)										
Percent Moisture	86.9	0.10	%		87			0	20	
					Source: IPH0452-01					

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06

Received: 08/03/06

DATA QUALIFIERS AND DEFINITIONS

- A-01** Matrix interferences confirmed in all three SA,MS&MSD runs.
- A-01a** Matrix interferences confirmed.GCMS#55 8/7/2006.
- I** Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R** The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
- R-3** The RPD exceeded the method control limit due to sample matrix effects.
- Z** Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
- ZX** Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0465

Sampled: 07/28/06

Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		
EPA 6010B	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
Haz Waste Scree	Soil		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-Haz. Waste

Samples: IPH0465-01

TestAmerica - Irvine, CA

Lisa Reightley For Michele Chamberlin

Project Manager

me
08/17/06**Michele Chamberlin**

From: Eric S Tsai [Eric.S.Tsai@us.mwhglobal.com]
Sent: Friday, August 04, 2006 10:55 AM
To: Michele Chamberlin
Cc: Banaga, Richard M
Subject: Re: R2A Pond sampling next week

Hi Michele,

Per our discussion today, we'll be sampling on Thursday next week and for all subsequent weeks.

* Also, the COC's that I submitted to you were incorrect. If you could analyze for Title 22 metals instead of Total Recoverable metals for all of the hazardous waste characterization samples of the filter media, that would be much appreciated.

Thanks!

Regards,

Eric Tsai

 Eric Tsai, EIT
 Associate Engineer
 MWH, Pasadena
 Phone: (626) 568-6277
 Fax: (626) 568-6101
 Eric.S.Tsai@Mwhglobal.com

"Michele Chamberlin" <mchamberlin@testamericainc.com>

"Michele Chamberlin"
 <mchamberlin@testamericainc.com>

08/04/2006 10:10 AM

To "Eric S Tsai"
 <Eric.S.Tsai@us.mwhglobal.com>,
 "Banaga, Richard M"
 <richard.m.banaga@boeing.com>

cc

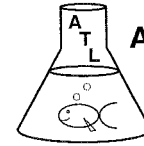
Subject R2A Pond sampling next week

Hi Eric/Rick,

When do you plan on sampling this next week? Please let me know so that I can add you to the schedule.

Thanks and have a good day.

LABORATORY REPORT



**Aquatic
Testing
Laboratories**

"dedicated to providing quality aquatic toxicity testing"

Date: August 12, 2006

Client: Del Mar Analytical, Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Michele Chamberlin

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Laboratory No.: A-06080709-001
Sample ID.: IPH0465-01

Sample Control: The samples were received by ATL in a chilled state, with the chain of custody record attached.

Date Sampled: 07/28/06
Date Received: 08/07/06
Date Tested: 08/07/06 to 08/12/06

Sample Analysis: The following analyses were performed on your sample:

CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay (Polisini & Miller 1988).

Attached are the test data generated from the analysis of your sample.

Result Summary:

<u>Sample ID.</u>	<u>Results</u>
IPH0465-01	PASSED (LC50 > 750 mg/l)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

**FATHEAD MINNOW HAZARDOUS WASTE
SCREEN BIOASSAY**

Lab No.: AD6080709-001

Client/ID: Test America IPHO465-01

TEST SUMMARY

Species: *Pimephales promelas*.
 Fish length (mm): av: 26; min: 24; max: 28.
 Fish weight (gm): av: 0.36; min: 0.28; max: 0.42.
 Test chamber volume: 10 liters.
 Temperature: 20 +/- 2°C.
 Aeration: Single bubble through narrow bore tube.
 Number of replicates: 2.
 Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO₃).
 QA/QC Batch No.: RT-060724.

Source: In-lab culture.
 Regulations: CCR Title 22.
 Test Protocol: California F&G/DHS 1988.
 Endpoints: Survival at 96 hrs.
 Test type: Static.
 Feeding: None.
 Number of fish per chamber: 10.
 Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D
Date/Time:	8-8-06 1100				8-9-06 1000				8-10-06 1100				8-11-06 1200				8-12-06 1100			
Analyst:	Rn				Rn				Rn				Rn				Rn			
Control A	19.8	8.0	7.3	0	20.4	8.0	7.0	0	20.4	7.9	6.9	0	20.5	8.0	6.9	0	20.5	8.1	7.0	0
Control B	19.7	8.1	7.3	0	20.3	7.6	7.0	0	20.3	7.6	6.9	0	20.4	7.7	6.9	0	20.4	7.8	7.1	0
400 mg/l A	19.8	8.1	7.4	0	20.3	8.1	7.0	0	20.4	8.6	7.2	0	20.5	8.5	7.0	0	20.4	8.6	7.0	0
400 mg/l B	19.7	8.2	7.4	0	20.2	8.0	7.0	0	20.4	8.5	7.1	0	20.4	8.4	7.0	0	20.3	8.5	7.0	0
750 mg/l A	19.7	8.2	7.4	0	20.2	7.8	6.9	0	20.3	8.1	7.0	0	20.3	8.0	7.0	0	20.3	8.0	7.0	0
750 mg/l B	19.6	8.2	7.4	0	20.1	8.3	7.0	0	20.3	8.1	7.1	0	20.3	8.2	7.0	0	20.2	8.3	7.0	0
Comments:	Extraction method: Mechanical shaking <input checked="" type="checkbox"/> . None (aqueous solution) <input type="checkbox"/> .																			

	CONTROL		HIGH CONCENTRATION		Total Number Dead	
	Alkalinity	Hardness	Alkalinity	Hardness	Control	
Initial	25 mg/l CaCO ₃	45 mg/l CaCO ₃	26 mg/l CaCO ₃	46 mg/l CaCO ₃	0	/20
Final	26 mg/l CaCO ₃	46 mg/l CaCO ₃	26 mg/l CaCO ₃	47 mg/l CaCO ₃	0	/20
					0	/20

RESULTS

✓ (one)	Result	Description
X	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
—	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
—	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

SUBCONTRACT ORDER - PROJECT # IPH0465

SENDING LABORATORY:

TestAmerica - Irvine, CA
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone : (805) 650-0546
Fax: (805) 650-0756

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
----------	------------	----------

Sample ID: IPH0465-01 Soil	Sampled: 07/28/06 08:40	
Bioassay-Haz. Waste	08/04/06 08:40	Sub to AqTox

Containers Supplied:
2 oz jar (IPH0465-01B)

SAMPLE INTEGRITY:

All containers intact: Yes No
Custody Seals Present: Yes No
Sample labels/COC agree: Yes No
Samples Preserved Properly: Yes No
Samples Received On Ice: Yes No
Samples Received at (temp): 2°C

Released By: <i>[Signature]</i>	Date: 8/7/06	Time: 0700	Received By: <i>L. McTear</i>	Date: 8/7/06	Time: 0700
Released By: <i>L. McTear</i>	Date: 8/7/06	Time: 12:00	Received By: <i>[Signature]</i>	Date: 8-7-06	Time: 1200

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Storage Tanks

Sampled: 07/28/06
Received: 08/03/06
Issued: 08/16/06 15:00

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID
IPH0466-01

CLIENT ID
S-WC-2

MATRIX
Soil

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06

Received: 08/03/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0466-01 (S-WC-2 - Soil)								
Reporting Units: ug/kg								
Benzene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Bromobenzene	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
Bromochloromethane	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
Bromodichloromethane	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Bromoform	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
Bromomethane	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
n-Butylbenzene	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
sec-Butylbenzene	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
tert-Butylbenzene	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
Carbon tetrachloride	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
Chlorobenzene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Chloroethane	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
Chloroform	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Chloromethane	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
2-Chlorotoluene	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
4-Chlorotoluene	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
Dibromochloromethane	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
1,2-Dibromo-3-chloropropane	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
1,2-Dibromoethane (EDB)	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Dibromomethane	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
1,2-Dichlorobenzene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
1,3-Dichlorobenzene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
1,4-Dichlorobenzene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Dichlorodifluoromethane	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
1,1-Dichloroethane	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
1,2-Dichloroethane	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
1,1-Dichloroethene	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
cis-1,2-Dichloroethene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
trans-1,2-Dichloroethene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
1,2-Dichloropropane	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
1,3-Dichloropropane	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
2,2-Dichloropropane	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
1,1-Dichloropropene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
cis-1,3-Dichloropropene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
trans-1,3-Dichloropropene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Ethylbenzene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Hexachlorobutadiene	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
Isopropylbenzene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
p-Isopropyltoluene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Methylene chloride	EPA 8260B	6H07019	21	ND	1.06	8/7/2006	8/7/2006	
Naphthalene	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06

Received: 08/03/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0466-01 (S-WC-2 - Soil) - cont.								
Reporting Units: ug/kg								
n-Propylbenzene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Styrene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
1,1,1,2-Tetrachloroethane	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
1,1,2,2-Tetrachloroethane	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Tetrachloroethene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Toluene	EPA 8260B	6H07019	2.1	130	1.06	8/7/2006	8/7/2006	
1,2,3-Trichlorobenzene	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
1,2,4-Trichlorobenzene	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
1,1,1-Trichloroethane	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
1,1,2-Trichloroethane	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Trichloroethene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Trichlorofluoromethane	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
1,2,3-Trichloropropane	EPA 8260B	6H07019	11	ND	1.06	8/7/2006	8/7/2006	
1,2,4-Trimethylbenzene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
1,3,5-Trimethylbenzene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
Vinyl chloride	EPA 8260B	6H07019	5.3	ND	1.06	8/7/2006	8/7/2006	
o-Xylene	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
m,p-Xylenes	EPA 8260B	6H07019	2.1	ND	1.06	8/7/2006	8/7/2006	
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				<i>108 %</i>				
<i>Surrogate: Toluene-d8 (80-120%)</i>				<i>109 %</i>				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				<i>99 %</i>				

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06

Received: 08/03/06

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0466-01 (S-WC-2 - Soil)								
Reporting Units: mg/kg								
Antimony	EPA 6010B	6H07102	10	ND	1	8/7/2006	8/8/2006	
Arsenic	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Barium	EPA 6010B	6H07102	1.0	5.7	1	8/7/2006	8/8/2006	
Beryllium	EPA 6010B	6H07102	0.50	ND	1	8/7/2006	8/8/2006	
Cadmium	EPA 6010B	6H07102	0.50	ND	1	8/7/2006	8/8/2006	
Chromium	EPA 6010B	6H07102	1.0	ND	1	8/7/2006	8/8/2006	
Cobalt	EPA 6010B	6H07102	1.0	ND	1	8/7/2006	8/8/2006	
Copper	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Lead	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Mercury	EPA 7471A	6H08118	0.020	ND	1	8/8/2006	8/9/2006	
Molybdenum	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Nickel	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Selenium	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Silver	EPA 6010B	6H07102	1.0	ND	1	8/7/2006	8/8/2006	
Thallium	EPA 6010B	6H07102	10	ND	1	8/7/2006	8/8/2006	
Vanadium	EPA 6010B	6H07102	1.0	1.8	1	8/7/2006	8/8/2006	
Zinc	EPA 6010B	6H07102	5.0	6.5	1	8/7/2006	8/8/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06

Received: 08/03/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0466-01 (S-WC-2 - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6H10151	0.10	25	1	8/10/2006	8/10/2006	

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06

Received: 08/03/06

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

Analyte	Units	Sample Result	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	TCLP Max. Limit mg/L (ppm)
IPH0466-01 (S-WC-2 - Soil) EPA 6010B					
Antimony	mg/kg	ND	15	500	
Arsenic	mg/kg	ND	5.0	500	5.0
Barium	mg/kg	5.7	100	10000	100
Beryllium	mg/kg	ND	0.75	75	
Cadmium	mg/kg	ND	1.0	100	1.0
Chromium	mg/kg	ND	5.0	2500	5.0
Cobalt	mg/kg	ND	80	8000	
Copper	mg/kg	ND	25	2500	
Lead	mg/kg	ND	5.0	1000	5.0
Mercury	mg/kg	ND	0.20	20	0.20
Molybdenum	mg/kg	ND	350	3500	
Nickel	mg/kg	ND	20	2000	
Selenium	mg/kg	ND	1.0	100	1.0
Silver	mg/kg	ND	5.0	500	5.0
Thallium	mg/kg	ND	7.0	700	
Vanadium	mg/kg	1.8	24	2400	
Zinc	mg/kg	6.5	250	5000	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06										
Blank Analyzed: 08/07/2006 (6H07019-BLK1)										
Benzene	ND	2.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	2.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	2.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	2.0	ug/kg							
Chloromethane	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
Dibromochloromethane	ND	2.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	2.0	ug/kg							
Dibromomethane	ND	2.0	ug/kg							
1,2-Dichlorobenzene	ND	2.0	ug/kg							
1,3-Dichlorobenzene	ND	2.0	ug/kg							
1,4-Dichlorobenzene	ND	2.0	ug/kg							
Dichlorodifluoromethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	2.0	ug/kg							
1,2-Dichloroethane	ND	2.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	2.0	ug/kg							
trans-1,2-Dichloroethene	ND	2.0	ug/kg							
1,2-Dichloropropane	ND	2.0	ug/kg							
1,3-Dichloropropane	ND	2.0	ug/kg							
2,2-Dichloropropane	ND	2.0	ug/kg							
1,1-Dichloropropene	ND	2.0	ug/kg							
cis-1,3-Dichloropropene	ND	2.0	ug/kg							
trans-1,3-Dichloropropene	ND	2.0	ug/kg							

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06										
Blank Analyzed: 08/07/2006 (6H07019-BLK1)										
Ethylbenzene	ND	2.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	2.0	ug/kg							
p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	20	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Propylbenzene	ND	2.0	ug/kg							
Styrene	ND	2.0	ug/kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg							
Tetrachloroethene	ND	2.0	ug/kg							
Toluene	ND	2.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	2.0	ug/kg							
1,1,2-Trichloroethane	ND	2.0	ug/kg							
Trichloroethene	ND	2.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	10	ug/kg							
1,2,4-Trimethylbenzene	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
o-Xylene	ND	2.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
Surrogate: Dibromofluoromethane	49.9		ug/kg	50.0		100	80-125			
Surrogate: Toluene-d8	54.4		ug/kg	50.0		109	80-120			
Surrogate: 4-Bromofluorobenzene	50.4		ug/kg	50.0		101	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06										
LCS Analyzed: 08/07/2006 (6H07019-BS1)										
Benzene	55.5	2.0	ug/kg	50.0		111	65-120			
Bromobenzene	52.8	5.0	ug/kg	50.0		106	70-120			
Bromochloromethane	55.9	5.0	ug/kg	50.0		112	65-130			
Bromodichloromethane	55.5	2.0	ug/kg	50.0		111	65-135			
Bromoform	57.9	5.0	ug/kg	50.0		116	50-135			
Bromomethane	58.7	5.0	ug/kg	50.0		117	60-145			
n-Butylbenzene	45.2	5.0	ug/kg	50.0		90	70-125			
sec-Butylbenzene	47.2	5.0	ug/kg	50.0		94	70-125			
tert-Butylbenzene	45.9	5.0	ug/kg	50.0		92	70-125			
Carbon tetrachloride	51.2	5.0	ug/kg	50.0		102	65-140			
Chlorobenzene	51.3	2.0	ug/kg	50.0		103	70-125			
Chloroethane	61.3	5.0	ug/kg	50.0		123	55-140			
Chloroform	53.3	2.0	ug/kg	50.0		107	65-130			
Chloromethane	61.6	5.0	ug/kg	50.0		123	40-140			
2-Chlorotoluene	50.9	5.0	ug/kg	50.0		102	70-125			
4-Chlorotoluene	51.3	5.0	ug/kg	50.0		103	70-125			
Dibromochloromethane	57.2	2.0	ug/kg	50.0		114	65-140			
1,2-Dibromo-3-chloropropane	52.7	5.0	ug/kg	50.0		105	45-140			
1,2-Dibromoethane (EDB)	56.7	2.0	ug/kg	50.0		113	70-130			
Dibromomethane	58.7	2.0	ug/kg	50.0		117	65-130			
1,2-Dichlorobenzene	53.1	2.0	ug/kg	50.0		106	70-120			
1,3-Dichlorobenzene	53.1	2.0	ug/kg	50.0		106	70-125			
1,4-Dichlorobenzene	51.8	2.0	ug/kg	50.0		104	70-125			
Dichlorodifluoromethane	61.8	5.0	ug/kg	50.0		124	25-155			
1,1-Dichloroethane	54.2	2.0	ug/kg	50.0		108	65-130			
1,2-Dichloroethane	50.3	2.0	ug/kg	50.0		101	60-140			
1,1-Dichloroethene	48.2	5.0	ug/kg	50.0		96	70-130			
cis-1,2-Dichloroethene	51.3	2.0	ug/kg	50.0		103	65-125			
trans-1,2-Dichloroethene	51.9	2.0	ug/kg	50.0		104	65-130			
1,2-Dichloropropane	59.9	2.0	ug/kg	50.0		120	65-125			
1,3-Dichloropropane	59.6	2.0	ug/kg	50.0		119	65-125			
2,2-Dichloropropane	52.6	2.0	ug/kg	50.0		105	60-145			
1,1-Dichloropropene	56.1	2.0	ug/kg	50.0		112	70-130			
cis-1,3-Dichloropropene	52.3	2.0	ug/kg	50.0		105	70-130			
trans-1,3-Dichloropropene	54.1	2.0	ug/kg	50.0		108	65-135			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06										
LCS Analyzed: 08/07/2006 (6H07019-BS1)										
Ethylbenzene	52.3	2.0	ug/kg	50.0		105	70-125			
Hexachlorobutadiene	35.0	5.0	ug/kg	50.0		70	60-135			
Isopropylbenzene	57.0	2.0	ug/kg	50.0		114	70-125			
p-Isopropyltoluene	45.7	2.0	ug/kg	50.0		91	70-125			
Methylene chloride	53.4	20	ug/kg	50.0		107	60-130			
Naphthalene	50.9	5.0	ug/kg	50.0		102	50-140			
n-Propylbenzene	55.3	2.0	ug/kg	50.0		111	70-125			
Styrene	51.3	2.0	ug/kg	50.0		103	70-130			
1,1,1,2-Tetrachloroethane	45.8	5.0	ug/kg	50.0		92	70-135			
1,1,2,2-Tetrachloroethane	53.6	2.0	ug/kg	50.0		107	55-140			
Tetrachloroethene	51.9	2.0	ug/kg	50.0		104	65-125			
Toluene	53.5	2.0	ug/kg	50.0		107	70-125			
1,2,3-Trichlorobenzene	48.3	5.0	ug/kg	50.0		97	60-130			
1,2,4-Trichlorobenzene	49.1	5.0	ug/kg	50.0		98	65-135			
1,1,1-Trichloroethane	49.6	2.0	ug/kg	50.0		99	65-135			
1,1,2-Trichloroethane	50.4	2.0	ug/kg	50.0		101	65-130			
Trichloroethene	47.4	2.0	ug/kg	50.0		95	70-125			
Trichlorofluoromethane	62.3	5.0	ug/kg	50.0		125	60-140			
1,2,3-Trichloropropane	60.6	10	ug/kg	50.0		121	55-135			
1,2,4-Trimethylbenzene	50.6	2.0	ug/kg	50.0		101	70-125			
1,3,5-Trimethylbenzene	49.4	2.0	ug/kg	50.0		99	70-125			
Vinyl chloride	59.2	5.0	ug/kg	50.0		118	50-130			
o-Xylene	52.4	2.0	ug/kg	50.0		105	70-125			
m,p-Xylenes	106	2.0	ug/kg	100		106	70-125			
Surrogate: Dibromofluoromethane	50.4		ug/kg	50.0		101	80-125			
Surrogate: Toluene-d8	52.7		ug/kg	50.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	50.9		ug/kg	50.0		102	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06									
Matrix Spike Analyzed: 08/07/2006 (6H07019-MS1)					Source: IPG2250-24				
Benzene	53.8	1.9	ug/kg	48.6	ND	111	65-130		
Bromobenzene	54.6	4.9	ug/kg	48.6	ND	112	70-135		
Bromochloromethane	56.4	4.9	ug/kg	48.6	ND	116	65-140		
Bromodichloromethane	53.1	1.9	ug/kg	48.6	ND	109	65-140		
Bromoform	53.4	4.9	ug/kg	48.6	ND	110	50-140		
Bromomethane	59.8	4.9	ug/kg	48.6	ND	123	55-150		
n-Butylbenzene	40.2	4.9	ug/kg	48.6	ND	83	55-140		
sec-Butylbenzene	45.3	4.9	ug/kg	48.6	ND	93	65-130		
tert-Butylbenzene	46.0	4.9	ug/kg	48.6	ND	95	65-135		
Carbon tetrachloride	46.4	4.9	ug/kg	48.6	ND	95	65-140		
Chlorobenzene	47.5	1.9	ug/kg	48.6	ND	98	70-125		
Chloroethane	63.7	4.9	ug/kg	48.6	ND	131	55-145		
Chloroform	54.0	1.9	ug/kg	48.6	ND	111	65-130		
Chloromethane	66.0	4.9	ug/kg	48.6	ND	136	35-140		
2-Chlorotoluene	50.8	4.9	ug/kg	48.6	ND	105	65-130		
4-Chlorotoluene	50.8	4.9	ug/kg	48.6	ND	105	70-130		
Dibromochloromethane	56.1	1.9	ug/kg	48.6	ND	115	65-140		
1,2-Dibromo-3-chloropropane	63.0	4.9	ug/kg	48.6	ND	130	45-145		
1,2-Dibromoethane (EDB)	57.8	1.9	ug/kg	48.6	ND	119	65-135		
Dibromomethane	57.0	1.9	ug/kg	48.6	ND	117	65-135		
1,2-Dichlorobenzene	48.8	1.9	ug/kg	48.6	ND	100	70-130		
1,3-Dichlorobenzene	48.3	1.9	ug/kg	48.6	ND	99	70-125		
1,4-Dichlorobenzene	47.3	1.9	ug/kg	48.6	ND	97	70-125		
Dichlorodifluoromethane	67.5	4.9	ug/kg	48.6	ND	139	25-155		
1,1-Dichloroethane	55.8	1.9	ug/kg	48.6	ND	115	65-130		
1,2-Dichloroethane	49.7	1.9	ug/kg	48.6	ND	102	60-145		
1,1-Dichloroethene	48.7	4.9	ug/kg	48.6	ND	100	65-135		
cis-1,2-Dichloroethene	51.8	1.9	ug/kg	48.6	ND	107	65-130		
trans-1,2-Dichloroethene	52.5	1.9	ug/kg	48.6	ND	108	65-135		
1,2-Dichloropropane	58.2	1.9	ug/kg	48.6	ND	120	65-125		
1,3-Dichloropropane	61.7	1.9	ug/kg	48.6	ND	127	65-135		
2,2-Dichloropropane	53.3	1.9	ug/kg	48.6	ND	110	60-145		
1,1-Dichloropropene	51.4	1.9	ug/kg	48.6	ND	106	65-135		
cis-1,3-Dichloropropene	50.7	1.9	ug/kg	48.6	ND	104	70-130		
trans-1,3-Dichloropropene	51.7	1.9	ug/kg	48.6	ND	106	65-140		

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06										
Matrix Spike Analyzed: 08/07/2006 (6H07019-MS1)					Source: IPG2250-24					
Ethylbenzene	46.7	1.9	ug/kg	48.6	ND	96	70-130			
Hexachlorobutadiene	25.8	4.9	ug/kg	48.6	ND	53	55-140			M2
Isopropylbenzene	59.2	1.9	ug/kg	48.6	ND	122	65-140			
p-Isopropyltoluene	43.6	1.9	ug/kg	48.6	ND	90	60-135			
Methylene chloride	55.6	19	ug/kg	48.6	ND	114	60-140			
Naphthalene	42.8	4.9	ug/kg	48.6	ND	88	40-155			
n-Propylbenzene	54.8	1.9	ug/kg	48.6	ND	113	65-140			
Styrene	44.8	1.9	ug/kg	48.6	ND	92	70-140			
1,1,1,2-Tetrachloroethane	43.1	4.9	ug/kg	48.6	ND	89	70-140			
1,1,2,2-Tetrachloroethane	63.9	1.9	ug/kg	48.6	ND	131	45-155			
Tetrachloroethene	45.5	1.9	ug/kg	48.6	ND	94	65-135			
Toluene	50.0	1.9	ug/kg	48.6	2.1	99	70-125			
1,2,3-Trichlorobenzene	32.1	4.9	ug/kg	48.6	ND	66	50-140			
1,2,4-Trichlorobenzene	34.8	4.9	ug/kg	48.6	ND	72	55-135			
1,1,1-Trichloroethane	49.3	1.9	ug/kg	48.6	ND	101	65-140			
1,1,2-Trichloroethane	50.7	1.9	ug/kg	48.6	ND	104	65-135			
Trichloroethene	43.3	1.9	ug/kg	48.6	ND	89	70-135			
Trichlorofluoromethane	63.1	4.9	ug/kg	48.6	ND	130	50-150			
1,2,3-Trichloropropane	73.7	9.7	ug/kg	48.6	ND	152	55-145			M1
1,2,4-Trimethylbenzene	49.0	1.9	ug/kg	48.6	ND	101	65-135			
1,3,5-Trimethylbenzene	49.4	1.9	ug/kg	48.6	ND	102	70-130			
Vinyl chloride	63.9	4.9	ug/kg	48.6	ND	131	50-135			
o-Xylene	46.8	1.9	ug/kg	48.6	ND	96	70-125			
m,p-Xylenes	95.3	1.9	ug/kg	97.3	ND	98	70-125			
Surrogate: Dibromofluoromethane	54.4		ug/kg	48.6		112	80-125			
Surrogate: Toluene-d8	50.8		ug/kg	48.6		105	80-120			
Surrogate: 4-Bromofluorobenzene	46.5		ug/kg	48.6		96	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0466

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06										
Matrix Spike Dup Analyzed: 08/08/2006 (6H07019-MSD1)					Source: IPG2250-24					
Benzene	62.3	2.1	ug/kg	52.3	ND	119	65-130	15	20	
Bromobenzene	60.4	5.2	ug/kg	52.3	ND	115	70-135	10	25	
Bromochloromethane	65.8	5.2	ug/kg	52.3	ND	126	65-140	15	25	
Bromodichloromethane	62.7	2.1	ug/kg	52.3	ND	120	65-140	17	20	
Bromoform	63.8	5.2	ug/kg	52.3	ND	122	50-140	18	30	
Bromomethane	72.6	5.2	ug/kg	52.3	ND	139	55-150	19	25	
n-Butylbenzene	55.3	5.2	ug/kg	52.3	ND	106	55-140	32	30	R
sec-Butylbenzene	57.7	5.2	ug/kg	52.3	ND	110	65-130	24	25	
tert-Butylbenzene	55.4	5.2	ug/kg	52.3	ND	106	65-135	19	25	
Carbon tetrachloride	54.2	5.2	ug/kg	52.3	ND	104	65-140	16	25	
Chlorobenzene	55.5	2.1	ug/kg	52.3	ND	106	70-125	16	25	
Chloroethane	77.8	5.2	ug/kg	52.3	ND	149	55-145	20	25	MI
Chloroform	63.4	2.1	ug/kg	52.3	ND	121	65-130	16	20	
Chloromethane	80.1	5.2	ug/kg	52.3	ND	153	35-140	19	25	MI
2-Chlorotoluene	58.6	5.2	ug/kg	52.3	ND	112	65-130	14	25	
4-Chlorotoluene	58.1	5.2	ug/kg	52.3	ND	111	70-130	13	25	
Dibromochloromethane	64.8	2.1	ug/kg	52.3	ND	124	65-140	14	25	
1,2-Dibromo-3-chloropropane	63.1	5.2	ug/kg	52.3	ND	121	45-145	0	30	
1,2-Dibromoethane (EDB)	66.9	2.1	ug/kg	52.3	ND	128	65-135	15	25	
Dibromomethane	67.3	2.1	ug/kg	52.3	ND	129	65-135	17	25	
1,2-Dichlorobenzene	57.3	2.1	ug/kg	52.3	ND	110	70-130	16	25	
1,3-Dichlorobenzene	57.4	2.1	ug/kg	52.3	ND	110	70-125	17	25	
1,4-Dichlorobenzene	56.1	2.1	ug/kg	52.3	ND	107	70-125	17	25	
Dichlorodifluoromethane	79.0	5.2	ug/kg	52.3	ND	151	25-155	16	35	
1,1-Dichloroethane	66.3	2.1	ug/kg	52.3	ND	127	65-130	17	25	
1,2-Dichloroethane	58.6	2.1	ug/kg	52.3	ND	112	60-145	16	25	
1,1-Dichloroethene	55.4	5.2	ug/kg	52.3	ND	106	65-135	13	25	
cis-1,2-Dichloroethene	60.1	2.1	ug/kg	52.3	ND	115	65-130	15	25	
trans-1,2-Dichloroethene	61.6	2.1	ug/kg	52.3	ND	118	65-135	16	25	
1,2-Dichloropropane	68.7	2.1	ug/kg	52.3	ND	131	65-125	17	20	MI
1,3-Dichloropropane	71.5	2.1	ug/kg	52.3	ND	137	65-135	15	25	MI
2,2-Dichloropropane	62.0	2.1	ug/kg	52.3	ND	119	60-145	15	25	
1,1-Dichloropropene	61.3	2.1	ug/kg	52.3	ND	117	65-135	18	20	
cis-1,3-Dichloropropene	59.6	2.1	ug/kg	52.3	ND	114	70-130	16	25	
trans-1,3-Dichloropropene	61.8	2.1	ug/kg	52.3	ND	118	65-140	18	25	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07019 Extracted: 08/07/06										
Matrix Spike Dup Analyzed: 08/08/2006 (6H07019-MSD1)					Source: IPG2250-24					
Ethylbenzene	56.1	2.1	ug/kg	52.3	ND	107	70-130	18	25	
Hexachlorobutadiene	41.4	5.2	ug/kg	52.3	ND	79	55-140	46	35	R-3
Isopropylbenzene	66.2	2.1	ug/kg	52.3	ND	127	65-140	11	25	
p-Isopropyltoluene	54.3	2.1	ug/kg	52.3	ND	104	60-135	22	25	
Methylene chloride	63.9	21	ug/kg	52.3	ND	122	60-140	14	25	
Naphthalene	50.0	5.2	ug/kg	52.3	ND	96	40-155	16	40	
n-Propylbenzene	64.1	2.1	ug/kg	52.3	ND	123	65-140	16	25	
Styrene	54.7	2.1	ug/kg	52.3	ND	105	70-140	20	25	
1,1,1,2-Tetrachloroethane	49.7	5.2	ug/kg	52.3	ND	95	70-140	14	20	
1,1,2,2-Tetrachloroethane	70.6	2.1	ug/kg	52.3	ND	135	45-155	10	30	
Tetrachloroethene	55.3	2.1	ug/kg	52.3	ND	106	65-135	19	25	
Toluene	58.2	2.1	ug/kg	52.3	2.1	107	70-125	15	20	
1,2,3-Trichlorobenzene	46.9	5.2	ug/kg	52.3	ND	90	50-140	37	30	R
1,2,4-Trichlorobenzene	49.1	5.2	ug/kg	52.3	ND	94	55-135	34	30	R
1,1,1-Trichloroethane	56.4	2.1	ug/kg	52.3	ND	108	65-140	13	20	
1,1,2-Trichloroethane	59.3	2.1	ug/kg	52.3	ND	113	65-135	16	30	
Trichloroethene	49.4	2.1	ug/kg	52.3	ND	94	70-135	13	25	
Trichlorofluoromethane	76.5	5.2	ug/kg	52.3	ND	146	50-150	19	25	
1,2,3-Trichloropropane	79.5	10	ug/kg	52.3	ND	152	55-145	8	30	MI
1,2,4-Trimethylbenzene	57.3	2.1	ug/kg	52.3	ND	110	65-135	16	25	
1,3,5-Trimethylbenzene	57.1	2.1	ug/kg	52.3	ND	109	70-130	14	25	
Vinyl chloride	75.0	5.2	ug/kg	52.3	ND	143	50-135	16	30	MI
o-Xylene	57.2	2.1	ug/kg	52.3	ND	109	70-125	20	25	
m,p-Xylenes	113	2.1	ug/kg	105	ND	108	70-125	17	25	
Surrogate: Dibromofluoromethane	58.4		ug/kg	52.3		112	80-125			
Surrogate: Toluene-d8	56.8		ug/kg	52.3		109	80-120			
Surrogate: 4-Bromofluorobenzene	52.6		ug/kg	52.3		101	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07102 Extracted: 08/07/06										
Blank Analyzed: 08/08/2006 (6H07102-BLK1)										
Antimony	ND	10	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	0.50	mg/kg							
Cadmium	ND	0.50	mg/kg							
Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Selenium	ND	2.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	5.0	mg/kg							
LCS Analyzed: 08/08/2006 (6H07102-BS1)										
Antimony	46.8	10	mg/kg	50.0		94	80-120			
Arsenic	44.2	2.0	mg/kg	50.0		88	80-120			
Barium	42.1	1.0	mg/kg	50.0		84	80-120			
Beryllium	44.3	0.50	mg/kg	50.0		89	80-120			
Cadmium	42.8	0.50	mg/kg	50.0		86	80-120			
Chromium	43.0	1.0	mg/kg	50.0		86	80-120			
Cobalt	43.3	1.0	mg/kg	50.0		87	80-120			
Copper	44.7	2.0	mg/kg	50.0		89	80-120			
Lead	44.6	2.0	mg/kg	50.0		89	80-120			
Molybdenum	41.7	2.0	mg/kg	50.0		83	80-120			
Nickel	42.5	2.0	mg/kg	50.0		85	80-120			
Selenium	43.9	2.0	mg/kg	50.0		88	80-120			
Silver	22.3	1.0	mg/kg	25.0		89	80-120			
Thallium	44.2	10	mg/kg	50.0		88	80-120			
Vanadium	42.4	1.0	mg/kg	50.0		85	80-120			
Zinc	50.4	5.0	mg/kg	50.0		101	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07102 Extracted: 08/07/06										
Matrix Spike Analyzed: 08/08/2006 (6H07102-MS1)					Source: IPH0575-03					
Antimony	29.1	10	mg/kg	49.8	ND	58	75-125			M2
Arsenic	41.1	2.0	mg/kg	49.8	1.2	80	75-125			
Barium	68.1	1.0	mg/kg	49.8	30	77	75-125			
Beryllium	41.1	0.50	mg/kg	49.8	ND	83	75-125			
Cadmium	39.2	0.50	mg/kg	49.8	ND	79	75-125			
Chromium	43.6	1.0	mg/kg	49.8	4.7	78	75-125			
Cobalt	42.7	1.0	mg/kg	49.8	2.4	81	75-125			
Copper	47.1	2.0	mg/kg	49.8	4.8	85	75-125			
Lead	41.9	2.0	mg/kg	49.8	2.3	80	75-125			
Molybdenum	38.8	2.0	mg/kg	49.8	ND	78	75-125			
Nickel	41.8	2.0	mg/kg	49.8	3.0	78	75-125			
Selenium	37.7	2.0	mg/kg	49.8	ND	76	75-125			
Silver	21.0	1.0	mg/kg	24.9	0.40	83	75-125			
Thallium	40.4	10	mg/kg	49.8	ND	81	75-125			
Vanadium	52.5	1.0	mg/kg	49.8	15	75	75-125			
Zinc	54.7	5.0	mg/kg	49.8	16	78	75-125			
Matrix Spike Dup Analyzed: 08/08/2006 (6H07102-MSD1)					Source: IPH0575-03					
Antimony	28.3	10	mg/kg	49.8	ND	57	75-125	3	20	M2
Arsenic	40.4	2.0	mg/kg	49.8	1.2	79	75-125	2	20	
Barium	66.1	1.0	mg/kg	49.8	30	72	75-125	3	20	M2
Beryllium	40.0	0.50	mg/kg	49.8	ND	80	75-125	3	20	
Cadmium	38.1	0.50	mg/kg	49.8	ND	77	75-125	3	20	
Chromium	42.7	1.0	mg/kg	49.8	4.7	76	75-125	2	20	
Cobalt	42.0	1.0	mg/kg	49.8	2.4	80	75-125	2	20	
Copper	45.4	2.0	mg/kg	49.8	4.8	82	75-125	4	20	
Lead	41.4	2.0	mg/kg	49.8	2.3	79	75-125	1	20	
Molybdenum	38.3	2.0	mg/kg	49.8	ND	77	75-125	1	20	
Nickel	40.5	2.0	mg/kg	49.8	3.0	75	75-125	3	20	
Selenium	37.5	2.0	mg/kg	49.8	ND	75	75-125	1	20	
Silver	20.2	1.0	mg/kg	24.9	0.40	80	75-125	4	20	
Thallium	40.2	10	mg/kg	49.8	ND	81	75-125	1	20	
Vanadium	50.3	1.0	mg/kg	49.8	15	71	75-125	4	20	M2
Zinc	53.3	5.0	mg/kg	49.8	16	75	75-125	3	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0466

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08118 Extracted: 08/08/06										
Blank Analyzed: 08/09/2006 (6H08118-BLK1)										
Mercury	ND	0.020	mg/kg							
LCS Analyzed: 08/09/2006 (6H08118-BS1)										
Mercury	0.759	0.020	mg/kg	0.800		95	85-120			
Matrix Spike Analyzed: 08/09/2006 (6H08118-MS1)										
Mercury	0.743	0.020	mg/kg	0.800	0.011	91	65-135			
Matrix Spike Dup Analyzed: 08/09/2006 (6H08118-MSD1)										
Mercury	0.735	0.020	mg/kg	0.800	0.011	90	65-135	1	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06

Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10151 Extracted: 08/10/06										
Duplicate Analyzed: 08/10/2006 (6H10151-DUP1)										
Percent Moisture	86.9	0.10	%		87			0	20	
					Source: IPH0452-01					

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06

Received: 08/03/06

DATA QUALIFIERS AND DEFINITIONS

- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R** The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
- R-3** The RPD exceeded the method control limit due to sample matrix effects.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0466

Sampled: 07/28/06

Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		
EPA 6010B	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
Haz Waste Scree	Soil		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-Haz. Waste

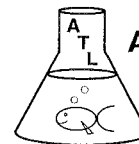
Samples: IPH0466-01

TestAmerica - Irvine, CA

Lisa Reightley For Michele Chamberlin

Project Manager

LABORATORY REPORT



**Aquatic
Testing
Laboratories**

"dedicated to providing quality aquatic toxicity testing"

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Date: August 12, 2006
Client: Del Mar Analytical, Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Michele Chamberlin

Laboratory No.: A-06080710-001
Sample ID.: IPH0466-01

Sample Control: The samples were received by ATL in a chilled state, with the chain of custody record attached.

Date Sampled: 07/28/06
Date Received: 08/07/06
Date Tested: 08/07/06 to 08/12/06

Sample Analysis: The following analyses were performed on your sample:

CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay (Polisini & Miller 1988).

Attached are the test data generated from the analysis of your sample.

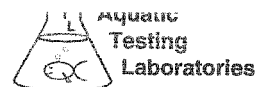
Result Summary:

<u>Sample ID.</u>	<u>Results</u>
IPH0466-01	PASSED (LC50 > 750 mg/l)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

**FATHEAD MINNOW HAZARDOUS WASTE
SCREEN BIOASSAY**



Lab No.: A06080710-001

Client/ID: TA 1PH0466-01

TEST SUMMARY

Species: *Pimephales promelas*.
 Fish length (mm): av: 26; min: 24; max: 28.
 Fish weight (gm): av: 0.36; min: 0.28; max: 0.42.
 Test chamber volume: 10 liters.
 Temperature: 20 +/- 2°C.
 Aeration: Single bubble through narrow bore tube.
 Number of replicates: 2.
 Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO₃).
 QA/QC Batch No.: RT-060724.

Source: In-lab culture.
 Regulations: CCR Title 22.
 Test Protocol: California F&G/DHS 1988.
 Endpoints: Survival at 96 hrs.
 Test type: Static.
 Feeding: None.
 Number of fish per chamber: 10.
 Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D
Date/Time:	8-8-06 1100				8-9-06 1100				8-10-06 1100				8-11-06 1200				8-12-06 1100			
Analyst:	Lr				Lr				Lr				Lr				Lr			
Control A	19.8	8.0	7.3	0	20.4	8.0	7.0	0	20.4	7.9	6.9	0	20.5	8.0	6.9	0	20.5	8.1	7.0	0
Control B	19.7	8.1	7.3	0	20.3	7.6	7.0	0	20.3	7.6	6.9	0	20.4	7.7	6.9	0	20.4	7.8	7.1	0
400 mg/l A	20.0	8.4	7.3	0	20.4	8.2	7.0	0	20.4	8.0	7.1	0	20.4	8.0	7.0	0	20.4	7.9	7.1	0
400 mg/l B	19.9	8.5	7.3	0	20.3	8.3	7.0	0	20.4	8.4	7.1	0	20.3	8.3	7.0	0	20.3	8.2	7.0	0
750 mg/l A	19.9	8.4	7.3	0	20.3	7.9	7.0	0	20.3	8.3	7.1	0	20.3	8.2	7.0	0	20.3	8.1	7.0	0
750 mg/l B	19.8	8.4	7.3	0	20.2	8.0	7.0	0	20.3	8.5	7.1	0	20.2	8.4	7.0	0	20.2	8.2	7.0	0
Comments:	Extraction method: Mechanical shaking <input checked="" type="checkbox"/> . None (aqueous solution) <input type="checkbox"/> .																			

	CONTROL		HIGH CONCENTRATION		Total Number Dead	
	Alkalinity	Hardness	Alkalinity	Hardness	Control	
Initial	25 mg/l CaCO ₃	45 mg/l CaCO ₃	25 mg/l CaCO ₃	47 mg/l CaCO ₃	0	/20
Final	26 mg/l CaCO ₃	46 mg/l CaCO ₃	26 mg/l CaCO ₃	46 mg/l CaCO ₃	0	/20
					0	/20

RESULTS

✓ (one)	Result	Description
<input checked="" type="checkbox"/>	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
<input type="checkbox"/>	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
<input type="checkbox"/>	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPH0466

SENDING LABORATORY:

TestAmerica - Irvine, CA
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone : (805) 650-0546
Fax: (805) 650-0756

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IPH0466-01 Soil	Sampled: 07/28/06 08:50	
Bioassay-Haz. Waste	08/04/06 08:50	Sub to AqTox

Containers Supplied:
2 oz jar (IPH0466-01B)

SAMPLE INTEGRITY:

All containers intact: Yes No
Custody Seals Present: Yes No
Sample labels/COC agree: Yes No
Samples Preserved Properly: Yes No
Samples Received On Ice: Yes No
Samples Received at (temp): 70C

Released By: [Signature] 8/7/06 0700 Date Time
Received By: [Signature] 8/7/06 0700 Date Time
Released By: [Signature] 8/7/06 12:05 Date Time
Received By: [Signature] 8-7-6 1200 Date Time

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Storage Tanks

Sampled: 07/28/06
Received: 08/03/06
Issued: 08/16/06 15:04

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID

IPH0467-01

CLIENT ID

LC-WC-2

MATRIX

Soil

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06

Received: 08/03/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0467-01 (LC-WC-2 - Soil)								
Reporting Units: ug/kg								
Benzene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
Bromobenzene	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	A-01, I, M1
Bromochloromethane	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	
Bromodichloromethane	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
Bromoform	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	
Bromomethane	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	
n-Butylbenzene	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	A-01, I
sec-Butylbenzene	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	A-01, I, M1
tert-Butylbenzene	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	A-01, I, M1
Carbon tetrachloride	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	
Chlorobenzene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
Chloroethane	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	
Chloroform	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
Chloromethane	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	
2-Chlorotoluene	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	A-01, I, M1
4-Chlorotoluene	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	A-01, I, M1
Dibromochloromethane	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
1,2-Dibromo-3-chloropropane	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	A-01, I, M1
1,2-Dibromoethane (EDB)	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	M1
Dibromomethane	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
1,2-Dichlorobenzene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	A-01, I
1,3-Dichlorobenzene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	A-01, I
1,4-Dichlorobenzene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	A-01, I
Dichlorodifluoromethane	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	
1,1-Dichloroethane	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
1,2-Dichloroethane	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
1,1-Dichloroethene	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	
cis-1,2-Dichloroethene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
trans-1,2-Dichloroethene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
1,2-Dichloropropane	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
1,3-Dichloropropane	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
2,2-Dichloropropane	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
1,1-Dichloropropene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
cis-1,3-Dichloropropene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
trans-1,3-Dichloropropene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
Ethylbenzene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
Hexachlorobutadiene	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	I, M2, A-01
Isopropylbenzene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	A-01, I, M1
p-Isopropyltoluene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	A-01, I
Methylene chloride	EPA 8260B	6H08007	20	ND	1.01	8/8/2006	8/8/2006	
Naphthalene	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	A-01, I

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06
 Received: 08/03/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0467-01 (LC-WC-2 - Soil) - cont.								
Reporting Units: ug/kg								
n-Propylbenzene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	A-01, I, M1
Styrene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
1,1,1,2-Tetrachloroethane	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	
1,1,2,2-Tetrachloroethane	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	A-01, I, M1
Tetrachloroethene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
Toluene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
1,2,3-Trichlorobenzene	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	A-01, I, M2
1,2,4-Trichlorobenzene	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	A-01, I, M2
1,1,1-Trichloroethane	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
1,1,2-Trichloroethane	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
Trichloroethene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
Trichlorofluoromethane	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	
1,2,3-Trichloropropane	EPA 8260B	6H08007	10	ND	1.01	8/8/2006	8/8/2006	A-01, I, M1
1,2,4-Trimethylbenzene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	A-01, I, M1
1,3,5-Trimethylbenzene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	I, M1, A-01
Vinyl chloride	EPA 8260B	6H08007	5.1	ND	1.01	8/8/2006	8/8/2006	
o-Xylene	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
m,p-Xylenes	EPA 8260B	6H08007	2.0	ND	1.01	8/8/2006	8/8/2006	
Surrogate: Dibromofluoromethane (80-125%)				96 %				
Surrogate: Toluene-d8 (80-120%)				95 %				
Surrogate: 4-Bromofluorobenzene (80-120%)				74 %				A-01, Z

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06

Received: 08/03/06

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0467-01 (LC-WC-2 - Soil)								
Reporting Units: mg/kg								
Antimony	EPA 6010B	6H07102	10	ND	1	8/7/2006	8/8/2006	
Arsenic	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Barium	EPA 6010B	6H07102	1.0	100	1	8/7/2006	8/8/2006	
Beryllium	EPA 6010B	6H07102	0.50	ND	1	8/7/2006	8/8/2006	
Cadmium	EPA 6010B	6H07102	0.50	0.52	1	8/7/2006	8/8/2006	
Chromium	EPA 6010B	6H07102	1.0	25	1	8/7/2006	8/8/2006	
Cobalt	EPA 6010B	6H07102	1.0	3.1	1	8/7/2006	8/8/2006	
Copper	EPA 6010B	6H07102	2.0	25	1	8/7/2006	8/8/2006	
Lead	EPA 6010B	6H07102	2.0	30	1	8/7/2006	8/8/2006	
Mercury	EPA 7471A	6H08118	0.020	0.048	1	8/8/2006	8/9/2006	
Molybdenum	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Nickel	EPA 6010B	6H07102	2.0	9.0	1	8/7/2006	8/8/2006	
Selenium	EPA 6010B	6H07102	2.0	ND	1	8/7/2006	8/8/2006	
Silver	EPA 6010B	6H07102	1.0	ND	1	8/7/2006	8/8/2006	
Thallium	EPA 6010B	6H07102	10	ND	1	8/7/2006	8/8/2006	
Vanadium	EPA 6010B	6H07102	1.0	26	1	8/7/2006	8/8/2006	
Zinc	EPA 6010B	6H07102	5.0	110	1	8/7/2006	8/8/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06

Received: 08/03/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0467-01 (LC-WC-2 - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6H10151	0.10	46	1	8/10/2006	8/10/2006	

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06

Received: 08/03/06

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

Analyte	Units	Sample Result	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	TCLP Max. Limit mg/L (ppm)
IPH0467-01 (LC-WC-2 - Soil) EPA 6010B					
Antimony	mg/kg	ND	15	500	
Arsenic	mg/kg	ND	5.0	500	5.0
Barium	mg/kg	100	100	10000	100
Beryllium	mg/kg	ND	0.75	75	
Cadmium	mg/kg	0.52	1.0	100	1.0
Chromium	mg/kg	25	5.0	2500	5.0
Cobalt	mg/kg	3.1	80	8000	
Copper	mg/kg	25	25	2500	
Lead	mg/kg	30	5.0	1000	5.0
Mercury	mg/kg	0.048	0.20	20	0.20
Molybdenum	mg/kg	ND	350	3500	
Nickel	mg/kg	9.0	20	2000	
Selenium	mg/kg	ND	1.0	100	1.0
Silver	mg/kg	ND	5.0	500	5.0
Thallium	mg/kg	ND	7.0	700	
Vanadium	mg/kg	26	24	2400	
Zinc	mg/kg	110	250	5000	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Blank Analyzed: 08/08/2006 (6H08007-BLK1)										
Benzene	ND	2.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	2.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	2.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	2.0	ug/kg							
Chloromethane	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
Dibromochloromethane	ND	2.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	2.0	ug/kg							
Dibromomethane	ND	2.0	ug/kg							
1,2-Dichlorobenzene	ND	2.0	ug/kg							
1,3-Dichlorobenzene	ND	2.0	ug/kg							
1,4-Dichlorobenzene	ND	2.0	ug/kg							
Dichlorodifluoromethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	2.0	ug/kg							
1,2-Dichloroethane	ND	2.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	2.0	ug/kg							
trans-1,2-Dichloroethene	ND	2.0	ug/kg							
1,2-Dichloropropane	ND	2.0	ug/kg							
1,3-Dichloropropane	ND	2.0	ug/kg							
2,2-Dichloropropane	ND	2.0	ug/kg							
1,1-Dichloropropene	ND	2.0	ug/kg							
cis-1,3-Dichloropropene	ND	2.0	ug/kg							
trans-1,3-Dichloropropene	ND	2.0	ug/kg							

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0467

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Blank Analyzed: 08/08/2006 (6H08007-BLK1)										
Ethylbenzene	ND	2.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	2.0	ug/kg							
p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	20	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Propylbenzene	ND	2.0	ug/kg							
Styrene	ND	2.0	ug/kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg							
Tetrachloroethene	ND	2.0	ug/kg							
Toluene	ND	2.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	2.0	ug/kg							
1,1,2-Trichloroethane	ND	2.0	ug/kg							
Trichloroethene	ND	2.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	10	ug/kg							
1,2,4-Trimethylbenzene	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
o-Xylene	ND	2.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
Surrogate: Dibromofluoromethane	47.9		ug/kg	50.0		96	80-125			
Surrogate: Toluene-d8	50.3		ug/kg	50.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	46.9		ug/kg	50.0		94	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
LCS Analyzed: 08/08/2006 (6H08007-BS1)										
Benzene	51.1	2.0	ug/kg	50.0		102	65-120			
Bromobenzene	49.3	5.0	ug/kg	50.0		99	70-120			
Bromochloromethane	52.5	5.0	ug/kg	50.0		105	65-130			
Bromodichloromethane	50.7	2.0	ug/kg	50.0		101	65-135			
Bromoform	49.9	5.0	ug/kg	50.0		100	50-135			
Bromomethane	58.1	5.0	ug/kg	50.0		116	60-145			
n-Butylbenzene	54.1	5.0	ug/kg	50.0		108	70-125			
sec-Butylbenzene	54.5	5.0	ug/kg	50.0		109	70-125			
tert-Butylbenzene	54.9	5.0	ug/kg	50.0		110	70-125			
Carbon tetrachloride	54.5	5.0	ug/kg	50.0		109	65-140			
Chlorobenzene	52.8	2.0	ug/kg	50.0		106	70-125			
Chloroethane	57.4	5.0	ug/kg	50.0		115	55-140			
Chloroform	52.1	2.0	ug/kg	50.0		104	65-130			
Chloromethane	60.4	5.0	ug/kg	50.0		121	40-140			
2-Chlorotoluene	51.3	5.0	ug/kg	50.0		103	70-125			
4-Chlorotoluene	52.8	5.0	ug/kg	50.0		106	70-125			
Dibromochloromethane	52.2	2.0	ug/kg	50.0		104	65-140			
1,2-Dibromo-3-chloropropane	52.9	5.0	ug/kg	50.0		106	45-140			
1,2-Dibromoethane (EDB)	55.2	2.0	ug/kg	50.0		110	70-130			
Dibromomethane	51.5	2.0	ug/kg	50.0		103	65-130			
1,2-Dichlorobenzene	52.3	2.0	ug/kg	50.0		105	70-120			
1,3-Dichlorobenzene	51.2	2.0	ug/kg	50.0		102	70-125			
1,4-Dichlorobenzene	50.4	2.0	ug/kg	50.0		101	70-125			
Dichlorodifluoromethane	68.6	5.0	ug/kg	50.0		137	25-155			
1,1-Dichloroethane	50.9	2.0	ug/kg	50.0		102	65-130			
1,2-Dichloroethane	44.4	2.0	ug/kg	50.0		89	60-140			
1,1-Dichloroethene	51.0	5.0	ug/kg	50.0		102	70-130			
cis-1,2-Dichloroethene	51.1	2.0	ug/kg	50.0		102	65-125			
trans-1,2-Dichloroethene	54.6	2.0	ug/kg	50.0		109	65-130			
1,2-Dichloropropane	52.9	2.0	ug/kg	50.0		106	65-125			
1,3-Dichloropropane	53.6	2.0	ug/kg	50.0		107	65-125			
2,2-Dichloropropane	56.7	2.0	ug/kg	50.0		113	60-145			
1,1-Dichloropropene	52.5	2.0	ug/kg	50.0		105	70-130			
cis-1,3-Dichloropropene	52.0	2.0	ug/kg	50.0		104	70-130			
trans-1,3-Dichloropropene	46.2	2.0	ug/kg	50.0		92	65-135			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0467

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
LCS Analyzed: 08/08/2006 (6H08007-BS1)										
Ethylbenzene	59.6	2.0	ug/kg	50.0		119	70-125			
Hexachlorobutadiene	46.0	5.0	ug/kg	50.0		92	60-135			
Isopropylbenzene	60.9	2.0	ug/kg	50.0		122	70-125			
p-Isopropyltoluene	53.9	2.0	ug/kg	50.0		108	70-125			
Methylene chloride	46.2	20	ug/kg	50.0		92	60-130			
Naphthalene	52.4	5.0	ug/kg	50.0		105	50-140			
n-Propylbenzene	57.6	2.0	ug/kg	50.0		115	70-125			
Styrene	52.4	2.0	ug/kg	50.0		105	70-130			
1,1,1,2-Tetrachloroethane	48.3	5.0	ug/kg	50.0		97	70-135			
1,1,2,2-Tetrachloroethane	44.3	2.0	ug/kg	50.0		89	55-140			
Tetrachloroethene	55.8	2.0	ug/kg	50.0		112	65-125			
Toluene	52.1	2.0	ug/kg	50.0		104	70-125			
1,2,3-Trichlorobenzene	49.8	5.0	ug/kg	50.0		100	60-130			
1,2,4-Trichlorobenzene	51.6	5.0	ug/kg	50.0		103	65-135			
1,1,1-Trichloroethane	53.6	2.0	ug/kg	50.0		107	65-135			
1,1,2-Trichloroethane	44.8	2.0	ug/kg	50.0		90	65-130			
Trichloroethene	45.4	2.0	ug/kg	50.0		91	70-125			
Trichlorofluoromethane	61.6	5.0	ug/kg	50.0		123	60-140			
1,2,3-Trichloropropane	50.5	10	ug/kg	50.0		101	55-135			
1,2,4-Trimethylbenzene	54.8	2.0	ug/kg	50.0		110	70-125			
1,3,5-Trimethylbenzene	54.8	2.0	ug/kg	50.0		110	70-125			
Vinyl chloride	60.7	5.0	ug/kg	50.0		121	50-130			
o-Xylene	55.2	2.0	ug/kg	50.0		110	70-125			
m,p-Xylenes	114	2.0	ug/kg	100		114	70-125			
Surrogate: Dibromofluoromethane	47.0		ug/kg	50.0		94	80-125			
Surrogate: Toluene-d8	48.2		ug/kg	50.0		96	80-120			
Surrogate: 4-Bromofluorobenzene	50.3		ug/kg	50.0		101	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06									
Matrix Spike Analyzed: 08/08/2006 (6H08007-MS1)					Source: IPH0467-01				
Benzene	61.6	2.1	ug/kg	51.4	ND	120	65-130		
Bromobenzene	78.1	5.1	ug/kg	51.4	ND	152	70-135		A-01, I, M1
Bromochloromethane	69.3	5.1	ug/kg	51.4	ND	135	65-140		
Bromodichloromethane	62.1	2.1	ug/kg	51.4	ND	121	65-140		
Bromoform	52.9	5.1	ug/kg	51.4	ND	103	50-140		
Bromomethane	66.0	5.1	ug/kg	51.4	ND	128	55-150		
n-Butylbenzene	45.5	5.1	ug/kg	51.4	ND	89	55-140		A-01, I
sec-Butylbenzene	56.7	5.1	ug/kg	51.4	ND	110	65-130		A-01, I
tert-Butylbenzene	63.5	5.1	ug/kg	51.4	ND	124	65-135		A-01, I
Carbon tetrachloride	57.6	5.1	ug/kg	51.4	ND	112	65-140		
Chlorobenzene	54.7	2.1	ug/kg	51.4	ND	106	70-125		
Chloroethane	67.5	5.1	ug/kg	51.4	ND	131	55-145		
Chloroform	60.7	2.1	ug/kg	51.4	ND	118	65-130		
Chloromethane	69.9	5.1	ug/kg	51.4	ND	136	35-140		
2-Chlorotoluene	73.1	5.1	ug/kg	51.4	ND	142	65-130		A-01, I, M1
4-Chlorotoluene	71.1	5.1	ug/kg	51.4	ND	138	70-130		A-01, I, M1
Dibromochloromethane	59.1	2.1	ug/kg	51.4	ND	115	65-140		
1,2-Dibromo-3-chloropropane	91.4	5.1	ug/kg	51.4	ND	178	45-145		A-01, I, M1
1,2-Dibromoethane (EDB)	70.7	2.1	ug/kg	51.4	ND	138	65-135		M1
Dibromomethane	67.8	2.1	ug/kg	51.4	ND	132	65-135		
1,2-Dichlorobenzene	55.6	2.1	ug/kg	51.4	ND	108	70-130		A-01, I
1,3-Dichlorobenzene	58.6	2.1	ug/kg	51.4	ND	114	70-125		A-01, I
1,4-Dichlorobenzene	56.2	2.1	ug/kg	51.4	ND	109	70-125		A-01, I
Dichlorodifluoromethane	74.4	5.1	ug/kg	51.4	ND	145	25-155		
1,1-Dichloroethane	60.7	2.1	ug/kg	51.4	ND	118	65-130		
1,2-Dichloroethane	60.4	2.1	ug/kg	51.4	ND	118	60-145		
1,1-Dichloroethene	56.3	5.1	ug/kg	51.4	ND	110	65-135		
cis-1,2-Dichloroethene	62.3	2.1	ug/kg	51.4	ND	121	65-130		
trans-1,2-Dichloroethene	60.3	2.1	ug/kg	51.4	ND	117	65-135		
1,2-Dichloropropane	62.5	2.1	ug/kg	51.4	ND	122	65-125		
1,3-Dichloropropane	68.6	2.1	ug/kg	51.4	ND	133	65-135		
2,2-Dichloropropane	65.7	2.1	ug/kg	51.4	ND	128	60-145		
1,1-Dichloropropene	58.4	2.1	ug/kg	51.4	ND	114	65-135		
cis-1,3-Dichloropropene	60.1	2.1	ug/kg	51.4	ND	117	70-130		
trans-1,3-Dichloropropene	56.3	2.1	ug/kg	51.4	ND	110	65-140		

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks
Report Number: IPH0467

Sampled: 07/28/06
Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Matrix Spike Analyzed: 08/08/2006 (6H08007-MS1)					Source: IPH0467-01					
Ethylbenzene	55.6	2.1	ug/kg	51.4	ND	108	70-130			
Hexachlorobutadiene	21.7	5.1	ug/kg	51.4	ND	42	55-140			A-01, I, M2
Isopropylbenzene	91.8	2.1	ug/kg	51.4	ND	179	65-140			A-01, I, M1
p-Isopropyltoluene	53.8	2.1	ug/kg	51.4	ND	105	60-135			A-01, I
Methylene chloride	59.2	21	ug/kg	51.4	ND	115	60-140			
Naphthalene	32.0	5.1	ug/kg	51.4	ND	62	40-155			A-01, I
n-Propylbenzene	76.7	2.1	ug/kg	51.4	ND	149	65-140			A-01, I, M1
Styrene	46.9	2.1	ug/kg	51.4	ND	91	70-140			
1,1,1,2-Tetrachloroethane	53.0	5.1	ug/kg	51.4	ND	103	70-140			
1,1,2,2-Tetrachloroethane	91.7	2.1	ug/kg	51.4	ND	178	45-155			A-01, I, M1
Tetrachloroethene	53.5	2.1	ug/kg	51.4	ND	104	65-135			
Toluene	59.3	2.1	ug/kg	51.4	ND	115	70-125			
1,2,3-Trichlorobenzene	22.7	5.1	ug/kg	51.4	ND	44	50-140			A-01, I, M2
1,2,4-Trichlorobenzene	27.3	5.1	ug/kg	51.4	ND	53	55-135			A-01, I, M2
1,1,1-Trichloroethane	59.0	2.1	ug/kg	51.4	ND	115	65-140			
1,1,2-Trichloroethane	59.0	2.1	ug/kg	51.4	ND	115	65-135			
Trichloroethene	51.2	2.1	ug/kg	51.4	ND	100	70-135			
Trichlorofluoromethane	66.4	5.1	ug/kg	51.4	ND	129	50-150			
1,2,3-Trichloropropane	113	10	ug/kg	51.4	ND	220	55-145			A-01, I, M1
1,2,4-Trimethylbenzene	68.8	2.1	ug/kg	51.4	ND	134	65-135			A-01, I
1,3,5-Trimethylbenzene	70.5	2.1	ug/kg	51.4	ND	137	70-130			A-01, I, M1
Vinyl chloride	67.1	5.1	ug/kg	51.4	ND	131	50-135			
o-Xylene	53.5	2.1	ug/kg	51.4	ND	104	70-125			
m,p-Xylenes	113	2.1	ug/kg	103	ND	110	70-125			
Surrogate: Dibromofluoromethane	51.6		ug/kg	51.4		100	80-125			
Surrogate: Toluene-d8	50.6		ug/kg	51.4		98	80-120			
Surrogate: 4-Bromofluorobenzene	39.4		ug/kg	51.4		77	80-120			A-01, Z

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Matrix Spike Dup Analyzed: 08/08/2006 (6H08007-MSD1)					Source: IPH0467-01					
Benzene	57.7	2.0	ug/kg	51.1	ND	113	65-130	7	20	
Bromobenzene	82.0	5.1	ug/kg	51.1	ND	160	70-135	5	25	A-01, I, M1
Bromochloromethane	55.4	5.1	ug/kg	51.1	ND	108	65-140	22	25	
Bromodichloromethane	50.9	2.0	ug/kg	51.1	ND	100	65-140	20	20	
Bromoform	38.0	5.1	ug/kg	51.1	ND	74	50-140	33	30	R-3
Bromomethane	62.2	5.1	ug/kg	51.1	ND	122	55-150	6	25	
n-Butylbenzene	52.7	5.1	ug/kg	51.1	ND	103	55-140	15	30	A-01, I
sec-Butylbenzene	69.3	5.1	ug/kg	51.1	ND	136	65-130	20	25	A-01, I, M1
tert-Butylbenzene	77.4	5.1	ug/kg	51.1	ND	151	65-135	20	25	A-01, I, M1
Carbon tetrachloride	55.3	5.1	ug/kg	51.1	ND	108	65-140	4	25	
Chlorobenzene	51.6	2.0	ug/kg	51.1	ND	101	70-125	6	25	
Chloroethane	63.7	5.1	ug/kg	51.1	ND	125	55-145	6	25	
Chloroform	55.6	2.0	ug/kg	51.1	ND	109	65-130	9	20	
Chloromethane	67.1	5.1	ug/kg	51.1	ND	131	35-140	4	25	
2-Chlorotoluene	81.9	5.1	ug/kg	51.1	ND	160	65-130	11	25	A-01, I, M1
4-Chlorotoluene	77.0	5.1	ug/kg	51.1	ND	151	70-130	8	25	A-01, I, M1
Dibromochloromethane	50.1	2.0	ug/kg	51.1	ND	98	65-140	16	25	
1,2-Dibromo-3-chloropropane	62.0	5.1	ug/kg	51.1	ND	121	45-145	38	30	A-01, I, R-3
1,2-Dibromoethane (EDB)	55.8	2.0	ug/kg	51.1	ND	109	65-135	24	25	
Dibromomethane	50.3	2.0	ug/kg	51.1	ND	98	65-135	30	25	R
1,2-Dichlorobenzene	50.3	2.0	ug/kg	51.1	ND	98	70-130	10	25	A-01, I
1,3-Dichlorobenzene	57.6	2.0	ug/kg	51.1	ND	113	70-125	2	25	A-01, I
1,4-Dichlorobenzene	55.9	2.0	ug/kg	51.1	ND	109	70-125	1	25	A-01, I
Dichlorodifluoromethane	74.6	5.1	ug/kg	51.1	ND	146	25-155	0	35	
1,1-Dichloroethane	56.7	2.0	ug/kg	51.1	ND	111	65-130	7	25	
1,2-Dichloroethane	47.4	2.0	ug/kg	51.1	ND	93	60-145	24	25	
1,1-Dichloroethene	55.4	5.1	ug/kg	51.1	ND	108	65-135	2	25	
cis-1,2-Dichloroethene	57.4	2.0	ug/kg	51.1	ND	112	65-130	8	25	
trans-1,2-Dichloroethene	57.8	2.0	ug/kg	51.1	ND	113	65-135	4	25	
1,2-Dichloropropane	54.9	2.0	ug/kg	51.1	ND	107	65-125	13	20	
1,3-Dichloropropane	60.7	2.0	ug/kg	51.1	ND	119	65-135	12	25	
2,2-Dichloropropane	61.6	2.0	ug/kg	51.1	ND	121	60-145	6	25	
1,1-Dichloropropene	57.1	2.0	ug/kg	51.1	ND	112	65-135	2	20	
cis-1,3-Dichloropropene	49.4	2.0	ug/kg	51.1	ND	97	70-130	20	25	
trans-1,3-Dichloropropene	41.7	2.0	ug/kg	51.1	ND	82	65-140	30	25	R-3

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0467

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08007 Extracted: 08/08/06										
Matrix Spike Dup Analyzed: 08/08/2006 (6H08007-MSD1)					Source: IPH0467-01					
Ethylbenzene	56.9	2.0	ug/kg	51.1	ND	111	70-130	2	25	
Hexachlorobutadiene	23.8	5.1	ug/kg	51.1	ND	47	55-140	9	35	A-01, I, M2
Isopropylbenzene	113	2.0	ug/kg	51.1	ND	221	65-140	21	25	A-01, I, M1
p-Isopropyltoluene	63.8	2.0	ug/kg	51.1	ND	125	60-135	17	25	A-01, I
Methylene chloride	52.6	20	ug/kg	51.1	ND	103	60-140	12	25	
Naphthalene	25.7	5.1	ug/kg	51.1	ND	50	40-155	22	40	A-01, I
n-Propylbenzene	94.2	2.0	ug/kg	51.1	ND	184	65-140	20	25	A-01, I, M1
Styrene	42.1	2.0	ug/kg	51.1	ND	82	70-140	11	25	
1,1,1,2-Tetrachloroethane	48.1	5.1	ug/kg	51.1	ND	94	70-140	10	20	
1,1,2,2-Tetrachloroethane	76.4	2.0	ug/kg	51.1	ND	150	45-155	18	30	A-01, I, M1
Tetrachloroethene	55.6	2.0	ug/kg	51.1	ND	109	65-135	4	25	
Toluene	52.6	2.0	ug/kg	51.1	ND	103	70-125	12	20	
1,2,3-Trichlorobenzene	16.8	5.1	ug/kg	51.1	ND	33	50-140	30	30	A-01, I, M2
1,2,4-Trichlorobenzene	22.3	5.1	ug/kg	51.1	ND	44	55-135	20	30	A-01, I, M2
1,1,1-Trichloroethane	57.0	2.0	ug/kg	51.1	ND	112	65-140	3	20	
1,1,2-Trichloroethane	41.2	2.0	ug/kg	51.1	ND	81	65-135	36	30	R-3
Trichloroethene	48.1	2.0	ug/kg	51.1	ND	94	70-135	6	25	
Trichlorofluoromethane	65.7	5.1	ug/kg	51.1	ND	129	50-150	1	25	
1,2,3-Trichloropropane	96.8	10	ug/kg	51.1	ND	189	55-145	15	30	A-01, I, M1
1,2,4-Trimethylbenzene	76.6	2.0	ug/kg	51.1	ND	150	65-135	11	25	A-01, I, M1
1,3,5-Trimethylbenzene	83.8	2.0	ug/kg	51.1	ND	164	70-130	17	25	A-01, I, M1
Vinyl chloride	66.7	5.1	ug/kg	51.1	ND	131	50-135	1	30	
o-Xylene	52.4	2.0	ug/kg	51.1	ND	103	70-125	2	25	
m,p-Xylenes	106	2.0	ug/kg	102	ND	104	70-125	6	25	
Surrogate: Dibromofluoromethane	49.5		ug/kg	51.1		97	80-125			
Surrogate: Toluene-d8	47.9		ug/kg	51.1		94	80-120			
Surrogate: 4-Bromofluorobenzene	34.0		ug/kg	51.1		67	80-120			A-01, Z

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07102 Extracted: 08/07/06										
Blank Analyzed: 08/08/2006 (6H07102-BLK1)										
Antimony	ND	10	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	0.50	mg/kg							
Cadmium	ND	0.50	mg/kg							
Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Selenium	ND	2.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	5.0	mg/kg							
LCS Analyzed: 08/08/2006 (6H07102-BS1)										
Antimony	46.8	10	mg/kg	50.0		94	80-120			
Arsenic	44.2	2.0	mg/kg	50.0		88	80-120			
Barium	42.1	1.0	mg/kg	50.0		84	80-120			
Beryllium	44.3	0.50	mg/kg	50.0		89	80-120			
Cadmium	42.8	0.50	mg/kg	50.0		86	80-120			
Chromium	43.0	1.0	mg/kg	50.0		86	80-120			
Cobalt	43.3	1.0	mg/kg	50.0		87	80-120			
Copper	44.7	2.0	mg/kg	50.0		89	80-120			
Lead	44.6	2.0	mg/kg	50.0		89	80-120			
Molybdenum	41.7	2.0	mg/kg	50.0		83	80-120			
Nickel	42.5	2.0	mg/kg	50.0		85	80-120			
Selenium	43.9	2.0	mg/kg	50.0		88	80-120			
Silver	22.3	1.0	mg/kg	25.0		89	80-120			
Thallium	44.2	10	mg/kg	50.0		88	80-120			
Vanadium	42.4	1.0	mg/kg	50.0		85	80-120			
Zinc	50.4	5.0	mg/kg	50.0		101	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07102 Extracted: 08/07/06										
Matrix Spike Analyzed: 08/08/2006 (6H07102-MS1)					Source: IPH0575-03					
Antimony	29.1	10	mg/kg	49.8	ND	58	75-125			M2
Arsenic	41.1	2.0	mg/kg	49.8	1.2	80	75-125			
Barium	68.1	1.0	mg/kg	49.8	30	77	75-125			
Beryllium	41.1	0.50	mg/kg	49.8	ND	83	75-125			
Cadmium	39.2	0.50	mg/kg	49.8	ND	79	75-125			
Chromium	43.6	1.0	mg/kg	49.8	4.7	78	75-125			
Cobalt	42.7	1.0	mg/kg	49.8	2.4	81	75-125			
Copper	47.1	2.0	mg/kg	49.8	4.8	85	75-125			
Lead	41.9	2.0	mg/kg	49.8	2.3	80	75-125			
Molybdenum	38.8	2.0	mg/kg	49.8	ND	78	75-125			
Nickel	41.8	2.0	mg/kg	49.8	3.0	78	75-125			
Selenium	37.7	2.0	mg/kg	49.8	ND	76	75-125			
Silver	21.0	1.0	mg/kg	24.9	0.40	83	75-125			
Thallium	40.4	10	mg/kg	49.8	ND	81	75-125			
Vanadium	52.5	1.0	mg/kg	49.8	15	75	75-125			
Zinc	54.7	5.0	mg/kg	49.8	16	78	75-125			
Matrix Spike Dup Analyzed: 08/08/2006 (6H07102-MSD1)					Source: IPH0575-03					
Antimony	28.3	10	mg/kg	49.8	ND	57	75-125	3	20	M2
Arsenic	40.4	2.0	mg/kg	49.8	1.2	79	75-125	2	20	
Barium	66.1	1.0	mg/kg	49.8	30	72	75-125	3	20	M2
Beryllium	40.0	0.50	mg/kg	49.8	ND	80	75-125	3	20	
Cadmium	38.1	0.50	mg/kg	49.8	ND	77	75-125	3	20	
Chromium	42.7	1.0	mg/kg	49.8	4.7	76	75-125	2	20	
Cobalt	42.0	1.0	mg/kg	49.8	2.4	80	75-125	2	20	
Copper	45.4	2.0	mg/kg	49.8	4.8	82	75-125	4	20	
Lead	41.4	2.0	mg/kg	49.8	2.3	79	75-125	1	20	
Molybdenum	38.3	2.0	mg/kg	49.8	ND	77	75-125	1	20	
Nickel	40.5	2.0	mg/kg	49.8	3.0	75	75-125	3	20	
Selenium	37.5	2.0	mg/kg	49.8	ND	75	75-125	1	20	
Silver	20.2	1.0	mg/kg	24.9	0.40	80	75-125	4	20	
Thallium	40.2	10	mg/kg	49.8	ND	81	75-125	1	20	
Vanadium	50.3	1.0	mg/kg	49.8	15	71	75-125	4	20	M2
Zinc	53.3	5.0	mg/kg	49.8	16	75	75-125	3	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06

Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08118 Extracted: 08/08/06										
Blank Analyzed: 08/09/2006 (6H08118-BLK1)										
Mercury	ND	0.020	mg/kg							
LCS Analyzed: 08/09/2006 (6H08118-BS1)										
Mercury	0.759	0.020	mg/kg	0.800		95	85-120			
Matrix Spike Analyzed: 08/09/2006 (6H08118-MS1)										
Mercury	0.743	0.020	mg/kg	0.800	0.011	91	65-135			
Matrix Spike Dup Analyzed: 08/09/2006 (6H08118-MSD1)										
Mercury	0.735	0.020	mg/kg	0.800	0.011	90	65-135	1	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06

Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10151 Extracted: 08/10/06										
Duplicate Analyzed: 08/10/2006 (6H10151-DUP1)										
Percent Moisture	86.9	0.10	%		87			0	20	
					Source: IPH0452-01					

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06
Received: 08/03/06

DATA QUALIFIERS AND DEFINITIONS

- A-01** Matrix interferences confirmed in all three SA,MS&MSD runs.
- I** Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R** The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
- R-3** The RPD exceeded the method control limit due to sample matrix effects.
- Z** Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0467

Sampled: 07/28/06

Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		
EPA 6010B	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
Haz Waste Scree	Soil		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-Haz. Waste

Samples: IPH0467-01

TestAmerica - Irvine, CA

Lisa Reightley For Michele Chamberlin

Project Manager

me
8/7/06

Michele Chamberlin

From: Eric S Tsai [Eric.S.Tsai@us.mwhglobal.com]
Sent: Friday, August 04, 2006 10:55 AM
To: Michele Chamberlin
Cc: Banaga, Richard M
Subject: Re: R2A Pond sampling next week

Hi Michele,

Per our discussion today, we'll be sampling on Thursday next week and for all subsequent weeks.

X Also, the COC's that I submitted to you were incorrect. If you could analyze for Title 22 metals instead of Total Recoverable metals for all of the hazardous waste characterization samples of the filter media, that would be much appreciated.

Thanks!

Regards,

Eric Tsai

Eric Tsai, EIT
Associate Engineer
MWH, Pasadena
Phone: (626) 568-6277
Fax: (626) 568-6101
Eric.S.Tsai@Mwhglobal.com

From: "Michele Chamberlin" <mchamberlin@testamericainc.com>

"Michele Chamberlin"
<mchamberlin@testamericainc.com>

08/04/2006 10:10 AM

To: "Eric S Tsai"
<Eric.S.Tsai@us.mwhglobal.com>,
"Banaga, Richard M"
<richard.m.banaga@boeing.com>

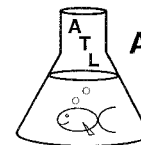
cc
Subject: R2A Pond sampling next week

Hi Eric/Rick,

When do you plan on sampling this next week? Please let me know so that I can add you to the schedule.

Thanks and have a good day.

LABORATORY REPORT



**Aquatic
Testing
Laboratories**

"dedicated to providing quality aquatic toxicity testing"

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Date: August 12, 2006
Client: Del Mar Analytical, Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Michele Chamberlin

Laboratory No.: A-06080711-001
Sample ID.: IPH0467-01

Sample Control: The samples were received by ATL in a chilled state, with the chain of custody record attached.

Date Sampled: 07/28/06
Date Received: 08/07/06
Date Tested: 08/07/06 to 08/12/06

Sample Analysis: The following analyses were performed on your sample:
CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay (Polisini & Miller 1988).
Attached are the test data generated from the analysis of your sample.

Result Summary:

<u>Sample ID.</u>	<u>Results</u>
IPH0467-01	PASSED (LC50 > 750 mg/l)

Quality Control: Reviewed and approved by:


Joseph A. LeMay
Laboratory Director

**FATHEAD MINNOW HAZARDOUS WASTE
SCREEN BIOASSAY**



Lab No.: A06080711-001
 Client/ID: Test America IPH0467-01

TEST SUMMARY

Species: *Pimephales promelas*.
 Fish length (mm): av: 26; min: 24; max: 28.
 Fish weight (gm): av: 0.36; min: 0.28; max: 0.42.
 Test chamber volume: 10 liters.
 Temperature: 20 +/- 2°C.
 Aeration: Single bubble through narrow bore tube.
 Number of replicates: 2.
 Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO₃).
 QA/QC Batch No.: RT-060724.

Source: In-lab culture.
 Regulations: CCR Title 22.
 Test Protocol: California F&G/DHS 1988.
 Endpoints: Survival at 96 hrs.
 Test type: Static.
 Feeding: None.
 Number of fish per chamber: 10.
 Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D
Date/Time:	8-8-06 1100				8-9-06 1000				8-10-06 1100				8-11-06 1200				8-12-06 1100			
Analyst:	R				R				R				R				R			
Control A	19.8	8.0	7.3	0	20.4	8.0	7.0	0	20.4	7.9	6.9	0	20.5	8.0	6.9	0	20.5	8.1	7.0	0
Control B	19.7	8.1	7.3	0	20.3	7.6	7.0	0	20.3	7.6	6.9	0	20.4	7.7	6.9	0	20.4	7.8	7.1	0
400 mg/l A	19.9	8.3	7.3	0	20.4	7.9	7.0	0	20.4	8.3	7.1	0	20.5	8.0	6.9	0	20.5	7.9	6.9	0
400 mg/l B	19.8	8.4	7.3	0	20.3	8.1	7.0	0	20.4	8.3	7.1	0	20.4	7.9	6.9	0	20.4	7.9	6.9	0
750 mg/l A	19.8	8.3	7.3	0	20.3	7.9	6.9	0	20.3	8.2	7.1	0	20.4	8.0	7.0	0	20.4	8.0	6.9	0
750 mg/l B	19.7	8.5	7.3	0	20.2	8.0	6.9	0	20.2	8.2	7.1	0	20.3	8.1	7.0	0	20.3	7.9	6.9	0
Comments:	Extraction method: Mechanical shaking <input checked="" type="checkbox"/> . None (aqueous solution) <input type="checkbox"/> .																			

	CONTROL		HIGH CONCENTRATION		Total Number Dead	
	Alkalinity	Hardness	Alkalinity	Hardness	Control	
Initial	25 mg/l CaCO ₃	45 mg/l CaCO ₃	25 mg/l CaCO ₃	47 mg/l CaCO ₃	0	/20
Final	26 mg/l CaCO ₃	46 mg/l CaCO ₃	25 mg/l CaCO ₃	46 mg/l CaCO ₃	0	/20
					0	/20

RESULTS

✓ (one)	Result	Description
X	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
—	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
—	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPH0467

SENDING LABORATORY:

TestAmerica - Irvine, CA
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone : (805) 650-0546
Fax: (805) 650-0756

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IPH0467-01 Soil Bioassay-Haz. Waste	08/04/06 08:45	Sub to AqTox

Containers Supplied:
2 oz jar (IPH0467-01B)

SAMPLE INTEGRITY:

All containers intact: Yes No
Custody Seals Present: Yes No
Sample labels/COC agree: Yes No
Samples Preserved Properly: Yes No
Samples Received On Ice: Yes No
Samples Received at (temp): 20C

Released By: [Signature] 8/7/06 0700 Date Time
Received By: [Signature] 8/7/06 0700 Date Time
Released By: [Signature] 8/7/06 12:00 Date Time
Received By: [Signature] 8/7/06 12:00 Date Time

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Storage Tanks

Sampled: 08/02/06
Received: 08/03/06
Issued: 08/16/06 13:35

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID
IPH0452-01

CLIENT ID
PM-WC

MATRIX
Soil

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06

Received: 08/03/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0452-01 (PM-WC - Soil)								
Reporting Units: ug/kg								
Benzene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
Bromobenzene	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	A-01, I
Bromochloromethane	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	
Bromodichloromethane	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
Bromoform	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	
Bromomethane	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	
n-Butylbenzene	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	A-01, I
sec-Butylbenzene	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	A-01, I
tert-Butylbenzene	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	A-01, I
Carbon tetrachloride	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	
Chlorobenzene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
Chloroethane	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	
Chloroform	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
Chloromethane	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	
2-Chlorotoluene	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	A-01, I
4-Chlorotoluene	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	A-01, I
Dibromochloromethane	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
1,2-Dibromo-3-chloropropane	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	A-01, I
1,2-Dibromoethane (EDB)	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
Dibromomethane	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
1,2-Dichlorobenzene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	A-01, I
1,3-Dichlorobenzene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	A-01, I
1,4-Dichlorobenzene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	A-01, I
Dichlorodifluoromethane	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	
1,1-Dichloroethane	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
1,2-Dichloroethane	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
1,1-Dichloroethene	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	
cis-1,2-Dichloroethene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
trans-1,2-Dichloroethene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
1,2-Dichloropropane	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
1,3-Dichloropropane	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
2,2-Dichloropropane	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
1,1-Dichloropropene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
cis-1,3-Dichloropropene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
trans-1,3-Dichloropropene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
Ethylbenzene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
Hexachlorobutadiene	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	A-01, I
Isopropylbenzene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	A-01, I
p-Isopropyltoluene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	A-01, I
Methylene chloride	EPA 8260B	6H08003	21	ND	1.07	8/8/2006	8/8/2006	
Naphthalene	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	A-01, I

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06

Received: 08/03/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0452-01 (PM-WC - Soil) - cont.								
Reporting Units: ug/kg								
n-Propylbenzene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	A-01, I
Styrene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
1,1,1,2-Tetrachloroethane	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	
1,1,2,2-Tetrachloroethane	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	A-01, I
Tetrachloroethene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
Toluene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
1,2,3-Trichlorobenzene	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	A-01, I
1,2,4-Trichlorobenzene	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	A-01, I
1,1,1-Trichloroethane	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
1,1,2-Trichloroethane	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
Trichloroethene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
Trichlorofluoromethane	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	
1,2,3-Trichloropropane	EPA 8260B	6H08003	11	ND	1.07	8/8/2006	8/8/2006	
1,2,4-Trimethylbenzene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
1,3,5-Trimethylbenzene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
Vinyl chloride	EPA 8260B	6H08003	5.4	ND	1.07	8/8/2006	8/8/2006	
o-Xylene	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
m,p-Xylenes	EPA 8260B	6H08003	2.1	ND	1.07	8/8/2006	8/8/2006	
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				102 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				86 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				92 %				

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06

Received: 08/03/06

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0452-01 (PM-WC - Soil)								
Reporting Units: mg/kg								
Antimony	EPA 6010B	6H07102	10	ND	0.995	8/7/2006	8/8/2006	
Arsenic	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Barium	EPA 6010B	6H07102	1.0	5.1	0.995	8/7/2006	8/8/2006	
Beryllium	EPA 6010B	6H07102	0.50	ND	0.995	8/7/2006	8/8/2006	
Cadmium	EPA 6010B	6H07102	0.50	ND	0.995	8/7/2006	8/8/2006	
Chromium	EPA 6010B	6H07102	1.0	ND	0.995	8/7/2006	8/8/2006	
Cobalt	EPA 6010B	6H07102	1.0	ND	0.995	8/7/2006	8/8/2006	
Copper	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Lead	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Mercury	EPA 7471A	6H08118	0.020	ND	1	8/8/2006	8/9/2006	
Molybdenum	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Nickel	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Selenium	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Silver	EPA 6010B	6H07102	1.0	ND	0.995	8/7/2006	8/8/2006	
Thallium	EPA 6010B	6H07102	10	ND	0.995	8/7/2006	8/8/2006	
Vanadium	EPA 6010B	6H07102	1.0	ND	0.995	8/7/2006	8/8/2006	
Zinc	EPA 6010B	6H07102	5.0	ND	0.995	8/7/2006	8/8/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06

Received: 08/03/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0452-01 (PM-WC - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6H10151	0.10	87	1	8/10/2006	8/10/2006	

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06

Received: 08/03/06

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

Analyte	Units	Sample Result	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	TCLP Max. Limit mg/L (ppm)
IPH0452-01 (PM-WC - Soil) EPA 6010B					
Antimony	mg/kg	ND	15	500	
Arsenic	mg/kg	ND	5.0	500	5.0
Barium	mg/kg	5.1	100	10000	100
Beryllium	mg/kg	ND	0.75	75	
Cadmium	mg/kg	ND	1.0	100	1.0
Chromium	mg/kg	ND	5.0	2500	5.0
Cobalt	mg/kg	ND	80	8000	
Copper	mg/kg	ND	25	2500	
Lead	mg/kg	ND	5.0	1000	5.0
Mercury	mg/kg	ND	0.20	20	0.20
Molybdenum	mg/kg	ND	350	3500	
Nickel	mg/kg	ND	20	2000	
Selenium	mg/kg	ND	1.0	100	1.0
Silver	mg/kg	ND	5.0	500	5.0
Thallium	mg/kg	ND	7.0	700	
Vanadium	mg/kg	ND	24	2400	
Zinc	mg/kg	ND	250	5000	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06										
Blank Analyzed: 08/08/2006 (6H08003-BLK1)										
Benzene	ND	2.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	2.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	2.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	2.0	ug/kg							
Chloromethane	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
Dibromochloromethane	ND	2.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	2.0	ug/kg							
Dibromomethane	ND	2.0	ug/kg							
1,2-Dichlorobenzene	ND	2.0	ug/kg							
1,3-Dichlorobenzene	ND	2.0	ug/kg							
1,4-Dichlorobenzene	ND	2.0	ug/kg							
Dichlorodifluoromethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	2.0	ug/kg							
1,2-Dichloroethane	ND	2.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	2.0	ug/kg							
trans-1,2-Dichloroethene	ND	2.0	ug/kg							
1,2-Dichloropropane	ND	2.0	ug/kg							
1,3-Dichloropropane	ND	2.0	ug/kg							
2,2-Dichloropropane	ND	2.0	ug/kg							
1,1-Dichloropropene	ND	2.0	ug/kg							
cis-1,3-Dichloropropene	ND	2.0	ug/kg							
trans-1,3-Dichloropropene	ND	2.0	ug/kg							

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06										
Blank Analyzed: 08/08/2006 (6H08003-BLK1)										
Ethylbenzene	ND	2.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	2.0	ug/kg							
p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	20	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Propylbenzene	ND	2.0	ug/kg							
Styrene	ND	2.0	ug/kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg							
Tetrachloroethene	ND	2.0	ug/kg							
Toluene	ND	2.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	2.0	ug/kg							
1,1,2-Trichloroethane	ND	2.0	ug/kg							
Trichloroethene	ND	2.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	10	ug/kg							
1,2,4-Trimethylbenzene	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
o-Xylene	ND	2.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
Surrogate: Dibromofluoromethane	51.8		ug/kg	50.0		104	80-125			
Surrogate: Toluene-d8	51.2		ug/kg	50.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	52.7		ug/kg	50.0		105	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06										
LCS Analyzed: 08/08/2006 (6H08003-BS1)										
Benzene	44.0	2.0	ug/kg	50.0		88	65-120			
Bromobenzene	49.0	5.0	ug/kg	50.0		98	70-120			
Bromochloromethane	53.8	5.0	ug/kg	50.0		108	65-130			
Bromodichloromethane	58.6	2.0	ug/kg	50.0		117	65-135			
Bromoform	60.5	5.0	ug/kg	50.0		121	50-135			
Bromomethane	51.9	5.0	ug/kg	50.0		104	60-145			
n-Butylbenzene	51.8	5.0	ug/kg	50.0		104	70-125			
sec-Butylbenzene	47.5	5.0	ug/kg	50.0		95	70-125			
tert-Butylbenzene	52.0	5.0	ug/kg	50.0		104	70-125			
Carbon tetrachloride	59.3	5.0	ug/kg	50.0		119	65-140			
Chlorobenzene	51.8	2.0	ug/kg	50.0		104	70-125			
Chloroethane	43.6	5.0	ug/kg	50.0		87	55-140			
Chloroform	55.1	2.0	ug/kg	50.0		110	65-130			
Chloromethane	40.0	5.0	ug/kg	50.0		80	40-140			
2-Chlorotoluene	47.7	5.0	ug/kg	50.0		95	70-125			
4-Chlorotoluene	50.8	5.0	ug/kg	50.0		102	70-125			
Dibromochloromethane	60.0	2.0	ug/kg	50.0		120	65-140			
1,2-Dibromo-3-chloropropane	47.1	5.0	ug/kg	50.0		94	45-140			
1,2-Dibromoethane (EDB)	52.0	2.0	ug/kg	50.0		104	70-130			
Dibromomethane	55.1	2.0	ug/kg	50.0		110	65-130			
1,2-Dichlorobenzene	53.0	2.0	ug/kg	50.0		106	70-120			
1,3-Dichlorobenzene	52.8	2.0	ug/kg	50.0		106	70-125			
1,4-Dichlorobenzene	51.7	2.0	ug/kg	50.0		103	70-125			
Dichlorodifluoromethane	59.9	5.0	ug/kg	50.0		120	25-155			
1,1-Dichloroethane	46.2	2.0	ug/kg	50.0		92	65-130			
1,2-Dichloroethane	53.2	2.0	ug/kg	50.0		106	60-140			
1,1-Dichloroethene	44.3	5.0	ug/kg	50.0		89	70-130			
cis-1,2-Dichloroethene	49.1	2.0	ug/kg	50.0		98	65-125			
trans-1,2-Dichloroethene	46.5	2.0	ug/kg	50.0		93	65-130			
1,2-Dichloropropane	45.7	2.0	ug/kg	50.0		91	65-125			
1,3-Dichloropropane	49.8	2.0	ug/kg	50.0		100	65-125			
2,2-Dichloropropane	54.7	2.0	ug/kg	50.0		109	60-145			
1,1-Dichloropropene	49.8	2.0	ug/kg	50.0		100	70-130			
cis-1,3-Dichloropropene	51.1	2.0	ug/kg	50.0		102	70-130			
trans-1,3-Dichloropropene	54.9	2.0	ug/kg	50.0		110	65-135			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06									
LCS Analyzed: 08/08/2006 (6H08003-BS1)									
Ethylbenzene	53.0	2.0	ug/kg	50.0		106		70-125	
Hexachlorobutadiene	59.8	5.0	ug/kg	50.0		120		60-135	
Isopropylbenzene	51.9	2.0	ug/kg	50.0		104		70-125	
p-Isopropyltoluene	52.1	2.0	ug/kg	50.0		104		70-125	
Methylene chloride	40.6	20	ug/kg	50.0		81		60-130	
Naphthalene	52.9	5.0	ug/kg	50.0		106		50-140	
n-Propylbenzene	48.9	2.0	ug/kg	50.0		98		70-125	
Styrene	56.0	2.0	ug/kg	50.0		112		70-130	
1,1,1,2-Tetrachloroethane	50.9	5.0	ug/kg	50.0		102		70-135	
1,1,2,2-Tetrachloroethane	35.6	2.0	ug/kg	50.0		71		55-140	
Tetrachloroethene	53.0	2.0	ug/kg	50.0		106		65-125	
Toluene	51.0	2.0	ug/kg	50.0		102		70-125	
1,2,3-Trichlorobenzene	59.1	5.0	ug/kg	50.0		118		60-130	
1,2,4-Trichlorobenzene	59.3	5.0	ug/kg	50.0		119		65-135	
1,1,1-Trichloroethane	57.8	2.0	ug/kg	50.0		116		65-135	
1,1,2-Trichloroethane	46.1	2.0	ug/kg	50.0		92		65-130	
Trichloroethene	47.8	2.0	ug/kg	50.0		96		70-125	
Trichlorofluoromethane	63.8	5.0	ug/kg	50.0		128		60-140	
1,2,3-Trichloropropane	42.9	10	ug/kg	50.0		86		55-135	
1,2,4-Trimethylbenzene	50.3	2.0	ug/kg	50.0		101		70-125	
1,3,5-Trimethylbenzene	50.5	2.0	ug/kg	50.0		101		70-125	
Vinyl chloride	49.3	5.0	ug/kg	50.0		99		50-130	
o-Xylene	53.5	2.0	ug/kg	50.0		107		70-125	
m,p-Xylenes	103	2.0	ug/kg	100		103		70-125	
Surrogate: Dibromofluoromethane	54.2		ug/kg	50.0		108		80-125	
Surrogate: Toluene-d8	50.8		ug/kg	50.0		102		80-120	
Surrogate: 4-Bromofluorobenzene	57.1		ug/kg	50.0		114		80-120	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0452

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06									
Matrix Spike Analyzed: 08/08/2006 (6H08003-MS1)					Source: IPH0712-01				
Benzene	47.0	2.0	ug/kg	49.9	ND	94	65-130		
Bromobenzene	52.7	5.0	ug/kg	49.9	ND	106	70-135		
Bromochloromethane	56.1	5.0	ug/kg	49.9	ND	112	65-140		
Bromodichloromethane	61.1	2.0	ug/kg	49.9	ND	122	65-140		
Bromoform	63.6	5.0	ug/kg	49.9	ND	127	50-140		
Bromomethane	55.4	5.0	ug/kg	49.9	ND	111	55-150		
n-Butylbenzene	56.3	5.0	ug/kg	49.9	ND	113	55-140		
sec-Butylbenzene	52.2	5.0	ug/kg	49.9	ND	105	65-130		
tert-Butylbenzene	57.0	5.0	ug/kg	49.9	ND	114	65-135		
Carbon tetrachloride	63.7	5.0	ug/kg	49.9	ND	128	65-140		
Chlorobenzene	55.3	2.0	ug/kg	49.9	ND	111	70-125		
Chloroethane	45.9	5.0	ug/kg	49.9	ND	92	55-145		
Chloroform	58.0	2.0	ug/kg	49.9	ND	116	65-130		
Chloromethane	42.0	5.0	ug/kg	49.9	ND	84	35-140		
2-Chlorotoluene	51.9	5.0	ug/kg	49.9	ND	104	65-130		
4-Chlorotoluene	55.7	5.0	ug/kg	49.9	ND	112	70-130		
Dibromochloromethane	63.5	2.0	ug/kg	49.9	ND	127	65-140		
1,2-Dibromo-3-chloropropane	48.2	5.0	ug/kg	49.9	ND	97	45-145		
1,2-Dibromoethane (EDB)	55.1	2.0	ug/kg	49.9	ND	110	65-135		
Dibromomethane	58.8	2.0	ug/kg	49.9	ND	118	65-135		
1,2-Dichlorobenzene	55.9	2.0	ug/kg	49.9	ND	112	70-130		
1,3-Dichlorobenzene	56.4	2.0	ug/kg	49.9	ND	113	70-125		
1,4-Dichlorobenzene	55.5	2.0	ug/kg	49.9	ND	111	70-125		
Dichlorodifluoromethane	61.7	5.0	ug/kg	49.9	ND	124	25-155		
1,1-Dichloroethane	48.1	2.0	ug/kg	49.9	ND	96	65-130		
1,2-Dichloroethane	56.2	2.0	ug/kg	49.9	ND	113	60-145		
1,1-Dichloroethene	47.3	5.0	ug/kg	49.9	ND	95	65-135		
cis-1,2-Dichloroethene	52.6	2.0	ug/kg	49.9	ND	105	65-130		
trans-1,2-Dichloroethene	50.1	2.0	ug/kg	49.9	ND	100	65-135		
1,2-Dichloropropane	48.1	2.0	ug/kg	49.9	ND	96	65-125		
1,3-Dichloropropane	53.4	2.0	ug/kg	49.9	ND	107	65-135		
2,2-Dichloropropane	62.1	2.0	ug/kg	49.9	ND	124	60-145		
1,1-Dichloropropene	55.0	2.0	ug/kg	49.9	ND	110	65-135		
cis-1,3-Dichloropropene	54.1	2.0	ug/kg	49.9	ND	108	70-130		
trans-1,3-Dichloropropene	59.2	2.0	ug/kg	49.9	ND	119	65-140		

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0452

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06										
Matrix Spike Analyzed: 08/08/2006 (6H08003-MS1)					Source: IPH0712-01					
Ethylbenzene	57.1	2.0	ug/kg	49.9	ND	114	70-130			
Hexachlorobutadiene	60.2	5.0	ug/kg	49.9	ND	121	55-140			
Isopropylbenzene	56.7	2.0	ug/kg	49.9	ND	114	65-140			
p-Isopropyltoluene	56.6	2.0	ug/kg	49.9	ND	113	60-135			
Methylene chloride	50.6	20	ug/kg	49.9	ND	101	60-140			
Naphthalene	52.9	5.0	ug/kg	49.9	ND	106	40-155			
n-Propylbenzene	54.2	2.0	ug/kg	49.9	ND	109	65-140			
Styrene	59.0	2.0	ug/kg	49.9	ND	118	70-140			
1,1,1,2-Tetrachloroethane	54.2	5.0	ug/kg	49.9	ND	109	70-140			
1,1,2,2-Tetrachloroethane	38.4	2.0	ug/kg	49.9	ND	77	45-155			
Tetrachloroethene	57.2	2.0	ug/kg	49.9	ND	115	65-135			
Toluene	55.0	2.0	ug/kg	49.9	ND	110	70-125			
1,2,3-Trichlorobenzene	59.3	5.0	ug/kg	49.9	ND	119	50-140			
1,2,4-Trichlorobenzene	62.5	5.0	ug/kg	49.9	ND	125	55-135			
1,1,1-Trichloroethane	61.7	2.0	ug/kg	49.9	ND	124	65-140			
1,1,2-Trichloroethane	48.9	2.0	ug/kg	49.9	ND	98	65-135			
Trichloroethene	50.4	2.0	ug/kg	49.9	ND	101	70-135			
Trichlorofluoromethane	69.2	5.0	ug/kg	49.9	ND	139	50-150			
1,2,3-Trichloropropane	46.1	10	ug/kg	49.9	ND	92	55-145			
1,2,4-Trimethylbenzene	54.8	2.0	ug/kg	49.9	ND	110	65-135			
1,3,5-Trimethylbenzene	54.7	2.0	ug/kg	49.9	ND	110	70-130			
Vinyl chloride	51.0	5.0	ug/kg	49.9	ND	102	50-135			
o-Xylene	56.3	2.0	ug/kg	49.9	ND	113	70-125			
m,p-Xylenes	110	2.0	ug/kg	99.8	ND	110	70-125			
Surrogate: Dibromofluoromethane	53.4		ug/kg	49.9		107	80-125			
Surrogate: Toluene-d8	49.8		ug/kg	49.9		100	80-120			
Surrogate: 4-Bromofluorobenzene	55.9		ug/kg	49.9		112	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06										
Matrix Spike Dup Analyzed: 08/08/2006 (6H08003-MSD1)					Source: IPH0712-01					
Benzene	49.6	2.0	ug/kg	49.3	ND	101	65-130	5	20	
Bromobenzene	56.9	4.9	ug/kg	49.3	ND	115	70-135	8	25	
Bromochloromethane	57.7	4.9	ug/kg	49.3	ND	117	65-140	3	25	
Bromodichloromethane	63.0	2.0	ug/kg	49.3	ND	128	65-140	3	20	
Bromoform	66.1	4.9	ug/kg	49.3	ND	134	50-140	4	30	
Bromomethane	57.7	4.9	ug/kg	49.3	ND	117	55-150	4	25	
n-Butylbenzene	59.9	4.9	ug/kg	49.3	ND	122	55-140	6	30	
sec-Butylbenzene	55.7	4.9	ug/kg	49.3	ND	113	65-130	6	25	
tert-Butylbenzene	60.9	4.9	ug/kg	49.3	ND	124	65-135	7	25	
Carbon tetrachloride	67.0	4.9	ug/kg	49.3	ND	136	65-140	5	25	
Chlorobenzene	57.9	2.0	ug/kg	49.3	ND	117	70-125	5	25	
Chloroethane	49.4	4.9	ug/kg	49.3	ND	100	55-145	7	25	
Chloroform	59.1	2.0	ug/kg	49.3	ND	120	65-130	2	20	
Chloromethane	46.1	4.9	ug/kg	49.3	ND	94	35-140	9	25	
2-Chlorotoluene	54.7	4.9	ug/kg	49.3	ND	111	65-130	5	25	
4-Chlorotoluene	58.9	4.9	ug/kg	49.3	ND	119	70-130	6	25	
Dibromochloromethane	65.9	2.0	ug/kg	49.3	ND	134	65-140	4	25	
1,2-Dibromo-3-chloropropane	51.2	4.9	ug/kg	49.3	ND	104	45-145	6	30	
1,2-Dibromoethane (EDB)	58.0	2.0	ug/kg	49.3	ND	118	65-135	5	25	
Dibromomethane	61.0	2.0	ug/kg	49.3	ND	124	65-135	4	25	
1,2-Dichlorobenzene	58.9	2.0	ug/kg	49.3	ND	119	70-130	5	25	
1,3-Dichlorobenzene	59.5	2.0	ug/kg	49.3	ND	121	70-125	5	25	
1,4-Dichlorobenzene	58.0	2.0	ug/kg	49.3	ND	118	70-125	4	25	
Dichlorodifluoromethane	66.0	4.9	ug/kg	49.3	ND	134	25-155	7	35	
1,1-Dichloroethane	50.2	2.0	ug/kg	49.3	ND	102	65-130	4	25	
1,2-Dichloroethane	57.8	2.0	ug/kg	49.3	ND	117	60-145	3	25	
1,1-Dichloroethene	49.8	4.9	ug/kg	49.3	ND	101	65-135	5	25	
cis-1,2-Dichloroethene	53.8	2.0	ug/kg	49.3	ND	109	65-130	2	25	
trans-1,2-Dichloroethene	52.1	2.0	ug/kg	49.3	ND	106	65-135	4	25	
1,2-Dichloropropane	50.7	2.0	ug/kg	49.3	ND	103	65-125	5	20	
1,3-Dichloropropane	55.1	2.0	ug/kg	49.3	ND	112	65-135	3	25	
2,2-Dichloropropane	64.8	2.0	ug/kg	49.3	ND	131	60-145	4	25	
1,1-Dichloropropene	57.8	2.0	ug/kg	49.3	ND	117	65-135	5	20	
cis-1,3-Dichloropropene	56.3	2.0	ug/kg	49.3	ND	114	70-130	4	25	
trans-1,3-Dichloropropene	61.1	2.0	ug/kg	49.3	ND	124	65-140	3	25	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0452

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06										
Matrix Spike Dup Analyzed: 08/08/2006 (6H08003-MSD1)					Source: IPH0712-01					
Ethylbenzene	60.0	2.0	ug/kg	49.3	ND	122	70-130	5	25	
Hexachlorobutadiene	64.4	4.9	ug/kg	49.3	ND	131	55-140	7	35	
Isopropylbenzene	61.5	2.0	ug/kg	49.3	ND	125	65-140	8	25	
p-Isopropyltoluene	60.3	2.0	ug/kg	49.3	ND	122	60-135	6	25	
Methylene chloride	54.9	20	ug/kg	49.3	ND	111	60-140	8	25	
Naphthalene	55.8	4.9	ug/kg	49.3	ND	113	40-155	5	40	
n-Propylbenzene	58.7	2.0	ug/kg	49.3	ND	119	65-140	8	25	
Styrene	61.4	2.0	ug/kg	49.3	ND	125	70-140	4	25	
1,1,1,2-Tetrachloroethane	56.4	4.9	ug/kg	49.3	ND	114	70-140	4	20	
1,1,2,2-Tetrachloroethane	41.2	2.0	ug/kg	49.3	ND	84	45-155	7	30	
Tetrachloroethene	60.8	2.0	ug/kg	49.3	ND	123	65-135	6	25	
Toluene	56.8	2.0	ug/kg	49.3	ND	115	70-125	3	20	
1,2,3-Trichlorobenzene	61.6	4.9	ug/kg	49.3	ND	125	50-140	4	30	
1,2,4-Trichlorobenzene	64.4	4.9	ug/kg	49.3	ND	131	55-135	3	30	
1,1,1-Trichloroethane	63.6	2.0	ug/kg	49.3	ND	129	65-140	3	20	
1,1,2-Trichloroethane	49.8	2.0	ug/kg	49.3	ND	101	65-135	2	30	
Trichloroethene	53.4	2.0	ug/kg	49.3	ND	108	70-135	6	25	
Trichlorofluoromethane	71.7	4.9	ug/kg	49.3	ND	145	50-150	4	25	
1,2,3-Trichloropropane	49.8	9.9	ug/kg	49.3	ND	101	55-145	8	30	
1,2,4-Trimethylbenzene	57.8	2.0	ug/kg	49.3	ND	117	65-135	5	25	
1,3,5-Trimethylbenzene	58.3	2.0	ug/kg	49.3	ND	118	70-130	6	25	
Vinyl chloride	56.0	4.9	ug/kg	49.3	ND	114	50-135	9	30	
o-Xylene	59.4	2.0	ug/kg	49.3	ND	120	70-125	5	25	
m,p-Xylenes	115	2.0	ug/kg	98.6	ND	117	70-125	4	25	
Surrogate: Dibromofluoromethane	51.6		ug/kg	49.3		105	80-125			
Surrogate: Toluene-d8	50.0		ug/kg	49.3		101	80-120			
Surrogate: 4-Bromofluorobenzene	54.3		ug/kg	49.3		110	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0452

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07102 Extracted: 08/07/06										
Blank Analyzed: 08/08/2006 (6H07102-BLK1)										
Antimony	ND	10	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	0.50	mg/kg							
Cadmium	ND	0.50	mg/kg							
Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Selenium	ND	2.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	5.0	mg/kg							
LCS Analyzed: 08/08/2006 (6H07102-BS1)										
Antimony	46.8	10	mg/kg	50.0		94	80-120			
Arsenic	44.2	2.0	mg/kg	50.0		88	80-120			
Barium	42.1	1.0	mg/kg	50.0		84	80-120			
Beryllium	44.3	0.50	mg/kg	50.0		89	80-120			
Cadmium	42.8	0.50	mg/kg	50.0		86	80-120			
Chromium	43.0	1.0	mg/kg	50.0		86	80-120			
Cobalt	43.3	1.0	mg/kg	50.0		87	80-120			
Copper	44.7	2.0	mg/kg	50.0		89	80-120			
Lead	44.6	2.0	mg/kg	50.0		89	80-120			
Molybdenum	41.7	2.0	mg/kg	50.0		83	80-120			
Nickel	42.5	2.0	mg/kg	50.0		85	80-120			
Selenium	43.9	2.0	mg/kg	50.0		88	80-120			
Silver	22.3	1.0	mg/kg	25.0		89	80-120			
Thallium	44.2	10	mg/kg	50.0		88	80-120			
Vanadium	42.4	1.0	mg/kg	50.0		85	80-120			
Zinc	50.4	5.0	mg/kg	50.0		101	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07102 Extracted: 08/07/06										
Matrix Spike Analyzed: 08/08/2006 (6H07102-MS1)					Source: IPH0575-03					
Antimony	29.1	10	mg/kg	49.8	ND	58	75-125			M2
Arsenic	41.1	2.0	mg/kg	49.8	1.2	80	75-125			
Barium	68.1	1.0	mg/kg	49.8	30	77	75-125			
Beryllium	41.1	0.50	mg/kg	49.8	ND	83	75-125			
Cadmium	39.2	0.50	mg/kg	49.8	ND	79	75-125			
Chromium	43.6	1.0	mg/kg	49.8	4.7	78	75-125			
Cobalt	42.7	1.0	mg/kg	49.8	2.4	81	75-125			
Copper	47.1	2.0	mg/kg	49.8	4.8	85	75-125			
Lead	41.9	2.0	mg/kg	49.8	2.3	80	75-125			
Molybdenum	38.8	2.0	mg/kg	49.8	ND	78	75-125			
Nickel	41.8	2.0	mg/kg	49.8	3.0	78	75-125			
Selenium	37.7	2.0	mg/kg	49.8	ND	76	75-125			
Silver	21.0	1.0	mg/kg	24.9	0.40	83	75-125			
Thallium	40.4	10	mg/kg	49.8	ND	81	75-125			
Vanadium	52.5	1.0	mg/kg	49.8	15	75	75-125			
Zinc	54.7	5.0	mg/kg	49.8	16	78	75-125			
Matrix Spike Dup Analyzed: 08/08/2006 (6H07102-MSD1)					Source: IPH0575-03					
Antimony	28.3	10	mg/kg	49.8	ND	57	75-125	3	20	M2
Arsenic	40.4	2.0	mg/kg	49.8	1.2	79	75-125	2	20	
Barium	66.1	1.0	mg/kg	49.8	30	72	75-125	3	20	M2
Beryllium	40.0	0.50	mg/kg	49.8	ND	80	75-125	3	20	
Cadmium	38.1	0.50	mg/kg	49.8	ND	77	75-125	3	20	
Chromium	42.7	1.0	mg/kg	49.8	4.7	76	75-125	2	20	
Cobalt	42.0	1.0	mg/kg	49.8	2.4	80	75-125	2	20	
Copper	45.4	2.0	mg/kg	49.8	4.8	82	75-125	4	20	
Lead	41.4	2.0	mg/kg	49.8	2.3	79	75-125	1	20	
Molybdenum	38.3	2.0	mg/kg	49.8	ND	77	75-125	1	20	
Nickel	40.5	2.0	mg/kg	49.8	3.0	75	75-125	3	20	
Selenium	37.5	2.0	mg/kg	49.8	ND	75	75-125	1	20	
Silver	20.2	1.0	mg/kg	24.9	0.40	80	75-125	4	20	
Thallium	40.2	10	mg/kg	49.8	ND	81	75-125	1	20	
Vanadium	50.3	1.0	mg/kg	49.8	15	71	75-125	4	20	M2
Zinc	53.3	5.0	mg/kg	49.8	16	75	75-125	3	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06

Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08118 Extracted: 08/08/06										
Blank Analyzed: 08/09/2006 (6H08118-BLK1)										
Mercury	ND	0.020	mg/kg							
LCS Analyzed: 08/09/2006 (6H08118-BS1)										
Mercury	0.759	0.020	mg/kg	0.800		95	85-120			
Matrix Spike Analyzed: 08/09/2006 (6H08118-MS1)										
Mercury	0.743	0.020	mg/kg	0.800	0.011	91	65-135			
Matrix Spike Dup Analyzed: 08/09/2006 (6H08118-MSD1)										
Mercury	0.735	0.020	mg/kg	0.800	0.011	90	65-135	1	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06

Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10151 Extracted: 08/10/06										
Duplicate Analyzed: 08/10/2006 (6H10151-DUP1)										
Percent Moisture	86.9	0.10	%		87			0	20	
					Source: IPH0452-01					

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06

Received: 08/03/06

DATA QUALIFIERS AND DEFINITIONS

- A-01** Matrix effect confirmed by second analysis
- I** Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0452

Sampled: 08/02/06

Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		
EPA 6010B	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
Haz Waste Scree	Soil		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-Haz. Waste

Samples: IPH0452-01

TestAmerica - Irvine, CA

Lisa Reightley For Michele Chamberlin

Project Manager

In

Michele Chamberlin

From: Eric S Tsai [Eric.S.Tsai@us.mwhglobal.com]
Sent: Friday, August 04, 2006 10:55 AM
To: Michele Chamberlin
Cc: Banaga, Richard M
Subject: Re: R2A Pond sampling next week

Hi Michele,

Per our discussion today, we'll be sampling on Thursday next week and for all subsequent weeks.

* Also, the COC's that I submitted to you were incorrect. If you could analyze for Title 22 metals instead of Total Recoverable metals for all of the hazardous waste characterization samples of the filter media, that would be much appreciated.

Thanks!

Regards,

Eric Tsai

Eric Tsai, EIT
Associate Engineer
MWH, Pasadena
Phone: (626) 568-6277
Fax: (626) 568-6101
Eric.S.Tsai@Mwhglobal.com

"Michele Chamberlin" <mchamberlin@testamericainc.com>

"Michele Chamberlin"
<mchamberlin@testamericainc.com>

08/04/2006 10:10 AM

To "Eric S Tsai"
<Eric.S.Tsai@us.mwhglobal.com>,
"Banaga, Richard M"
<richard.m.banaga@boeing.com>

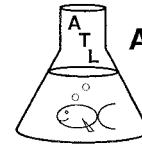
cc
Subject: R2A Pond sampling next week

Hi Eric/Rick,

When do you plan on sampling this next week? Please let me know so that I can add you to the schedule.

Thanks and have a good day.

LABORATORY REPORT



**Aquatic
Testing
Laboratories**

"dedicated to providing quality aquatic toxicity testing"

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Date: August 12, 2006
Client: Del Mar Analytical, Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Michele Chamberlin

Laboratory No.: A-06080703-001
Sample ID.: IPH0452-01

Sample Control: The samples were received by ATL in a chilled state, with the chain of custody record attached.

Date Sampled: 08/02/06
Date Received: 08/07/06
Date Tested: 08/07/06 to 08/12/06

Sample Analysis: The following analyses were performed on your sample:
CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay (Polisini & Miller 1988).
Attached are the test data generated from the analysis of your sample.

Result Summary:

<u>Sample ID.</u>	<u>Results</u>
IPH0452-01	PASSED (LC50 > 750 mg/l)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

**FATHEAD MINNOW HAZARDOUS WASTE
SCREEN BIOASSAY**



Lab No.: A06080703-001
 Client/ID: Test America 1PH0452-01

TEST SUMMARY

Species: *Pimephales promelas*.
 Fish length (mm): av: 26; min: 24; max: 28.
 Fish weight (gm): av: 0.36; min: 0.28; max: 0.42.
 Test chamber volume: 10 liters.
 Temperature: 20 +/- 2°C.
 Aeration: Single bubble through narrow bore tube.
 Number of replicates: 2.
 Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO₃).
 QA/QC Batch No.: RT-060724.

Source: In-lab culture.
 Regulations: CCR Title 22.
 Test Protocol: California F&G/DHS 1988.
 Endpoints: Survival at 96 hrs.
 Test type: Static.
 Feeding: None.
 Number of fish per chamber: 10.
 Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D
Date/Time:	8-8-06 1100				8-9-06 1100				8-10-06 1100				8-11-06 1200				8-12-06 1100			
Analyst:	Rn				Rn				Rn				Rn				Rn			
Control A	19.8	8.0	7.3	0	20.4	8.0	7.0	0	20.4	7.9	6.9	0	20.5	8.0	6.9	0	20.5	8.1	7.0	0
Control B	19.7	8.1	7.3	0	20.3	7.6	7.0	0	20.3	7.6	6.9	0	20.4	7.7	6.9	0	20.4	7.8	7.1	0
400 mg/l A	20.0	8.3	7.3	0	20.4	8.0	7.0	0	20.4	8.5	7.1	0	20.5	8.2	6.9	0	20.5	8.1	6.9	0
400 mg/l B	19.9	8.2	7.3	0	20.4	7.8	6.9	0	20.4	8.2	7.0	0	20.4	7.7	6.9	0	20.4	7.9	6.9	0
750 mg/l A	19.9	8.2	7.3	0	20.3	7.6	6.8	0	20.3	7.9	6.9	0	20.3	7.8	6.9	0	20.4	7.7	6.9	0
750 mg/l B	19.8	8.3	7.3	0	20.3	7.7	6.8	0	20.3	8.1	6.8	0	20.3	8.0	6.9	0	20.3	8.0	6.9	0
Comments:	Extraction method: Mechanical shaking <input checked="" type="checkbox"/> . None (aqueous solution) <input type="checkbox"/> .																			

	CONTROL		HIGH CONCENTRATION		Total Number Dead	
	Alkalinity	Hardness	Alkalinity	Hardness	Control	400 mg/l
Initial	25 mg/l CaCO ₃	45 mg/l CaCO ₃	25 mg/l CaCO ₃	47 mg/l CaCO ₃	0	0
Final	26 mg/l CaCO ₃	46 mg/l CaCO ₃	26 mg/l CaCO ₃	47 mg/l CaCO ₃	0	0

RESULTS

✓ (one)	Result	Description
X	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
—	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
—	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPH0452

SENDING LABORATORY:

TestAmerica - Irvine, CA
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone : (805) 650-0546
Fax: (805) 650-0756

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IPH0452-01 Soil Bioassay-Haz. Waste	08/09/06 17:00	Sub to AqTox

Containers Supplied:
2 oz jar (IPH0452-01B)

SAMPLE INTEGRITY:

All containers intact: Yes No
Custody Seals Present: Yes No
Sample labels/COC agree: Yes No
Samples Preserved Properly: Yes No
Samples Received On Ice: Yes No
Samples Received at (temp): 20C

Released By: [Signature] Date: 8/7/06 Time: 0700
Received By: Liddlebey Date: 8/7/06 Time: 0700
Released By: [Signature] Date: 8/7/06 Time: 12:00
Received By: [Signature] Date: 8-7-06 Time: 1200

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Storage Tanks

Sampled: 08/02/06
Received: 08/03/06
Issued: 08/16/06 13:29

NELAP #01108CA California ELAP#1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.*

SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID
IPH0453-01

CLIENT ID
AC-WC

MATRIX
Soil

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06

Received: 08/03/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0453-01 (AC-WC - Soil)								A-01, I
Reporting Units: ug/kg								
Benzene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Bromobenzene	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
Bromochloromethane	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
Bromodichloromethane	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Bromoform	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
Bromomethane	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
n-Butylbenzene	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
sec-Butylbenzene	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
tert-Butylbenzene	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
Carbon tetrachloride	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
Chlorobenzene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Chloroethane	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
Chloroform	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Chloromethane	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
2-Chlorotoluene	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
4-Chlorotoluene	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
Dibromochloromethane	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
1,2-Dibromo-3-chloropropane	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
1,2-Dibromoethane (EDB)	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Dibromomethane	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
1,2-Dichlorobenzene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
1,3-Dichlorobenzene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
1,4-Dichlorobenzene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Dichlorodifluoromethane	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
1,1-Dichloroethane	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
1,2-Dichloroethane	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
1,1-Dichloroethene	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
cis-1,2-Dichloroethene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
trans-1,2-Dichloroethene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
1,2-Dichloropropane	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
1,3-Dichloropropane	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
2,2-Dichloropropane	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
1,1-Dichloropropene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
cis-1,3-Dichloropropene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
trans-1,3-Dichloropropene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Ethylbenzene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Hexachlorobutadiene	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
Isopropylbenzene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
p-Isopropyltoluene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Methylene chloride	EPA 8260B	6H08003	20	ND	1.01	8/8/2006	8/8/2006	
Naphthalene	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06
 Received: 08/03/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0453-01 (AC-WC - Soil) - cont.								A-01, I
Reporting Units: ug/kg								
n-Propylbenzene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Styrene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
1,1,1,2-Tetrachloroethane	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
1,1,2,2-Tetrachloroethane	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Tetrachloroethene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Toluene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
1,2,3-Trichlorobenzene	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
1,2,4-Trichlorobenzene	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
1,1,1-Trichloroethane	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
1,1,2-Trichloroethane	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Trichloroethene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Trichlorofluoromethane	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
1,2,3-Trichloropropane	EPA 8260B	6H08003	10	ND	1.01	8/8/2006	8/8/2006	
1,2,4-Trimethylbenzene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
1,3,5-Trimethylbenzene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
Vinyl chloride	EPA 8260B	6H08003	5.1	ND	1.01	8/8/2006	8/8/2006	
o-Xylene	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
m,p-Xylenes	EPA 8260B	6H08003	2.0	ND	1.01	8/8/2006	8/8/2006	
<i>Surrogate: Dibromofluoromethane (80-125%)</i>				110 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				88 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				42 %				Z

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06

Received: 08/03/06

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0453-01 (AC-WC - Soil)								
Reporting Units: mg/kg								
Antimony	EPA 6010B	6H07102	10	ND	0.995	8/7/2006	8/8/2006	
Arsenic	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Barium	EPA 6010B	6H07102	1.0	13	0.995	8/7/2006	8/8/2006	
Beryllium	EPA 6010B	6H07102	0.50	ND	0.995	8/7/2006	8/8/2006	
Cadmium	EPA 6010B	6H07102	0.50	ND	0.995	8/7/2006	8/8/2006	
Chromium	EPA 6010B	6H07102	1.0	2.1	0.995	8/7/2006	8/8/2006	
Cobalt	EPA 6010B	6H07102	1.0	ND	0.995	8/7/2006	8/8/2006	
Copper	EPA 6010B	6H07102	2.0	4.7	0.995	8/7/2006	8/8/2006	
Lead	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Mercury	EPA 7471A	6H08118	0.020	ND	1	8/8/2006	8/9/2006	
Molybdenum	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Nickel	EPA 6010B	6H07102	2.0	2.4	0.995	8/7/2006	8/8/2006	
Selenium	EPA 6010B	6H07102	2.0	ND	0.995	8/7/2006	8/8/2006	
Silver	EPA 6010B	6H07102	1.0	ND	0.995	8/7/2006	8/8/2006	
Thallium	EPA 6010B	6H07102	10	ND	0.995	8/7/2006	8/8/2006	
Vanadium	EPA 6010B	6H07102	1.0	5.0	0.995	8/7/2006	8/8/2006	
Zinc	EPA 6010B	6H07102	5.0	19	0.995	8/7/2006	8/8/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06

Received: 08/03/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH0453-01 (AC-WC - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6H10151	0.10	55	1	8/10/2006	8/10/2006	

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06

Received: 08/03/06

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

Analyte	Units	Sample Result	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	TCLP Max. Limit mg/L (ppm)
IPH0453-01 (AC-WC - Soil) EPA 6010B					
Antimony	mg/kg	ND	15	500	
Arsenic	mg/kg	ND	5.0	500	5.0
Barium	mg/kg	13	100	10000	100
Beryllium	mg/kg	ND	0.75	75	
Cadmium	mg/kg	ND	1.0	100	1.0
Chromium	mg/kg	2.1	5.0	2500	5.0
Cobalt	mg/kg	ND	80	8000	
Copper	mg/kg	4.7	25	2500	
Lead	mg/kg	ND	5.0	1000	5.0
Mercury	mg/kg	ND	0.20	20	0.20
Molybdenum	mg/kg	ND	350	3500	
Nickel	mg/kg	2.4	20	2000	
Selenium	mg/kg	ND	1.0	100	1.0
Silver	mg/kg	ND	5.0	500	5.0
Thallium	mg/kg	ND	7.0	700	
Vanadium	mg/kg	5.0	24	2400	
Zinc	mg/kg	19	250	5000	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06										
Blank Analyzed: 08/08/2006 (6H08003-BLK1)										
Benzene	ND	2.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	2.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	2.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	2.0	ug/kg							
Chloromethane	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
Dibromochloromethane	ND	2.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	2.0	ug/kg							
Dibromomethane	ND	2.0	ug/kg							
1,2-Dichlorobenzene	ND	2.0	ug/kg							
1,3-Dichlorobenzene	ND	2.0	ug/kg							
1,4-Dichlorobenzene	ND	2.0	ug/kg							
Dichlorodifluoromethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	2.0	ug/kg							
1,2-Dichloroethane	ND	2.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	2.0	ug/kg							
trans-1,2-Dichloroethene	ND	2.0	ug/kg							
1,2-Dichloropropane	ND	2.0	ug/kg							
1,3-Dichloropropane	ND	2.0	ug/kg							
2,2-Dichloropropane	ND	2.0	ug/kg							
1,1-Dichloropropene	ND	2.0	ug/kg							
cis-1,3-Dichloropropene	ND	2.0	ug/kg							
trans-1,3-Dichloropropene	ND	2.0	ug/kg							

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06										
Blank Analyzed: 08/08/2006 (6H08003-BLK1)										
Ethylbenzene	ND	2.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	2.0	ug/kg							
p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	20	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Propylbenzene	ND	2.0	ug/kg							
Styrene	ND	2.0	ug/kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg							
Tetrachloroethene	ND	2.0	ug/kg							
Toluene	ND	2.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	2.0	ug/kg							
1,1,2-Trichloroethane	ND	2.0	ug/kg							
Trichloroethene	ND	2.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	10	ug/kg							
1,2,4-Trimethylbenzene	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
o-Xylene	ND	2.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
Surrogate: Dibromofluoromethane	51.8		ug/kg	50.0		104	80-125			
Surrogate: Toluene-d8	51.2		ug/kg	50.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	52.7		ug/kg	50.0		105	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD RPD	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06									
LCS Analyzed: 08/08/2006 (6H08003-BS1)									
Benzene	44.0	2.0	ug/kg	50.0		88	65-120		
Bromobenzene	49.0	5.0	ug/kg	50.0		98	70-120		
Bromochloromethane	53.8	5.0	ug/kg	50.0		108	65-130		
Bromodichloromethane	58.6	2.0	ug/kg	50.0		117	65-135		
Bromoform	60.5	5.0	ug/kg	50.0		121	50-135		
Bromomethane	51.9	5.0	ug/kg	50.0		104	60-145		
n-Butylbenzene	51.8	5.0	ug/kg	50.0		104	70-125		
sec-Butylbenzene	47.5	5.0	ug/kg	50.0		95	70-125		
tert-Butylbenzene	52.0	5.0	ug/kg	50.0		104	70-125		
Carbon tetrachloride	59.3	5.0	ug/kg	50.0		119	65-140		
Chlorobenzene	51.8	2.0	ug/kg	50.0		104	70-125		
Chloroethane	43.6	5.0	ug/kg	50.0		87	55-140		
Chloroform	55.1	2.0	ug/kg	50.0		110	65-130		
Chloromethane	40.0	5.0	ug/kg	50.0		80	40-140		
2-Chlorotoluene	47.7	5.0	ug/kg	50.0		95	70-125		
4-Chlorotoluene	50.8	5.0	ug/kg	50.0		102	70-125		
Dibromochloromethane	60.0	2.0	ug/kg	50.0		120	65-140		
1,2-Dibromo-3-chloropropane	47.1	5.0	ug/kg	50.0		94	45-140		
1,2-Dibromoethane (EDB)	52.0	2.0	ug/kg	50.0		104	70-130		
Dibromomethane	55.1	2.0	ug/kg	50.0		110	65-130		
1,2-Dichlorobenzene	53.0	2.0	ug/kg	50.0		106	70-120		
1,3-Dichlorobenzene	52.8	2.0	ug/kg	50.0		106	70-125		
1,4-Dichlorobenzene	51.7	2.0	ug/kg	50.0		103	70-125		
Dichlorodifluoromethane	59.9	5.0	ug/kg	50.0		120	25-155		
1,1-Dichloroethane	46.2	2.0	ug/kg	50.0		92	65-130		
1,2-Dichloroethane	53.2	2.0	ug/kg	50.0		106	60-140		
1,1-Dichloroethene	44.3	5.0	ug/kg	50.0		89	70-130		
cis-1,2-Dichloroethene	49.1	2.0	ug/kg	50.0		98	65-125		
trans-1,2-Dichloroethene	46.5	2.0	ug/kg	50.0		93	65-130		
1,2-Dichloropropane	45.7	2.0	ug/kg	50.0		91	65-125		
1,3-Dichloropropane	49.8	2.0	ug/kg	50.0		100	65-125		
2,2-Dichloropropane	54.7	2.0	ug/kg	50.0		109	60-145		
1,1-Dichloropropene	49.8	2.0	ug/kg	50.0		100	70-130		
cis-1,3-Dichloropropene	51.1	2.0	ug/kg	50.0		102	70-130		
trans-1,3-Dichloropropene	54.9	2.0	ug/kg	50.0		110	65-135		

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06										
LCS Analyzed: 08/08/2006 (6H08003-BS1)										
Ethylbenzene	53.0	2.0	ug/kg	50.0		106	70-125			
Hexachlorobutadiene	59.8	5.0	ug/kg	50.0		120	60-135			
Isopropylbenzene	51.9	2.0	ug/kg	50.0		104	70-125			
p-Isopropyltoluene	52.1	2.0	ug/kg	50.0		104	70-125			
Methylene chloride	40.6	20	ug/kg	50.0		81	60-130			
Naphthalene	52.9	5.0	ug/kg	50.0		106	50-140			
n-Propylbenzene	48.9	2.0	ug/kg	50.0		98	70-125			
Styrene	56.0	2.0	ug/kg	50.0		112	70-130			
1,1,1,2-Tetrachloroethane	50.9	5.0	ug/kg	50.0		102	70-135			
1,1,2,2-Tetrachloroethane	35.6	2.0	ug/kg	50.0		71	55-140			
Tetrachloroethene	53.0	2.0	ug/kg	50.0		106	65-125			
Toluene	51.0	2.0	ug/kg	50.0		102	70-125			
1,2,3-Trichlorobenzene	59.1	5.0	ug/kg	50.0		118	60-130			
1,2,4-Trichlorobenzene	59.3	5.0	ug/kg	50.0		119	65-135			
1,1,1-Trichloroethane	57.8	2.0	ug/kg	50.0		116	65-135			
1,1,2-Trichloroethane	46.1	2.0	ug/kg	50.0		92	65-130			
Trichloroethene	47.8	2.0	ug/kg	50.0		96	70-125			
Trichlorofluoromethane	63.8	5.0	ug/kg	50.0		128	60-140			
1,2,3-Trichloropropane	42.9	10	ug/kg	50.0		86	55-135			
1,2,4-Trimethylbenzene	50.3	2.0	ug/kg	50.0		101	70-125			
1,3,5-Trimethylbenzene	50.5	2.0	ug/kg	50.0		101	70-125			
Vinyl chloride	49.3	5.0	ug/kg	50.0		99	50-130			
o-Xylene	53.5	2.0	ug/kg	50.0		107	70-125			
m,p-Xylenes	103	2.0	ug/kg	100		103	70-125			
Surrogate: Dibromofluoromethane	54.2		ug/kg	50.0		108	80-125			
Surrogate: Toluene-d8	50.8		ug/kg	50.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	57.1		ug/kg	50.0		114	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0453

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Data Limit	Qualifiers
Batch: 6H08003 Extracted: 08/08/06										
Matrix Spike Analyzed: 08/08/2006 (6H08003-MS1)					Source: IPH0712-01					
Benzene	47.0	2.0	ug/kg	49.9	ND	94	65-130			
Bromobenzene	52.7	5.0	ug/kg	49.9	ND	106	70-135			
Bromochloromethane	56.1	5.0	ug/kg	49.9	ND	112	65-140			
Bromodichloromethane	61.1	2.0	ug/kg	49.9	ND	122	65-140			
Bromoform	63.6	5.0	ug/kg	49.9	ND	127	50-140			
Bromomethane	55.4	5.0	ug/kg	49.9	ND	111	55-150			
n-Butylbenzene	56.3	5.0	ug/kg	49.9	ND	113	55-140			
sec-Butylbenzene	52.2	5.0	ug/kg	49.9	ND	105	65-130			
tert-Butylbenzene	57.0	5.0	ug/kg	49.9	ND	114	65-135			
Carbon tetrachloride	63.7	5.0	ug/kg	49.9	ND	128	65-140			
Chlorobenzene	55.3	2.0	ug/kg	49.9	ND	111	70-125			
Chloroethane	45.9	5.0	ug/kg	49.9	ND	92	55-145			
Chloroform	58.0	2.0	ug/kg	49.9	ND	116	65-130			
Chloromethane	42.0	5.0	ug/kg	49.9	ND	84	35-140			
2-Chlorotoluene	51.9	5.0	ug/kg	49.9	ND	104	65-130			
4-Chlorotoluene	55.7	5.0	ug/kg	49.9	ND	112	70-130			
Dibromochloromethane	63.5	2.0	ug/kg	49.9	ND	127	65-140			
1,2-Dibromo-3-chloropropane	48.2	5.0	ug/kg	49.9	ND	97	45-145			
1,2-Dibromoethane (EDB)	55.1	2.0	ug/kg	49.9	ND	110	65-135			
Dibromomethane	58.8	2.0	ug/kg	49.9	ND	118	65-135			
1,2-Dichlorobenzene	55.9	2.0	ug/kg	49.9	ND	112	70-130			
1,3-Dichlorobenzene	56.4	2.0	ug/kg	49.9	ND	113	70-125			
1,4-Dichlorobenzene	55.5	2.0	ug/kg	49.9	ND	111	70-125			
Dichlorodifluoromethane	61.7	5.0	ug/kg	49.9	ND	124	25-155			
1,1-Dichloroethane	48.1	2.0	ug/kg	49.9	ND	96	65-130			
1,2-Dichloroethane	56.2	2.0	ug/kg	49.9	ND	113	60-145			
1,1-Dichloroethene	47.3	5.0	ug/kg	49.9	ND	95	65-135			
cis-1,2-Dichloroethene	52.6	2.0	ug/kg	49.9	ND	105	65-130			
trans-1,2-Dichloroethene	50.1	2.0	ug/kg	49.9	ND	100	65-135			
1,2-Dichloropropane	48.1	2.0	ug/kg	49.9	ND	96	65-125			
1,3-Dichloropropane	53.4	2.0	ug/kg	49.9	ND	107	65-135			
2,2-Dichloropropane	62.1	2.0	ug/kg	49.9	ND	124	60-145			
1,1-Dichloropropene	55.0	2.0	ug/kg	49.9	ND	110	65-135			
cis-1,3-Dichloropropene	54.1	2.0	ug/kg	49.9	ND	108	70-130			
trans-1,3-Dichloropropene	59.2	2.0	ug/kg	49.9	ND	119	65-140			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06										
Matrix Spike Analyzed: 08/08/2006 (6H08003-MS1)					Source: IPH0712-01					
Ethylbenzene	57.1	2.0	ug/kg	49.9	ND	114	70-130			
Hexachlorobutadiene	60.2	5.0	ug/kg	49.9	ND	121	55-140			
Isopropylbenzene	56.7	2.0	ug/kg	49.9	ND	114	65-140			
p-Isopropyltoluene	56.6	2.0	ug/kg	49.9	ND	113	60-135			
Methylene chloride	50.6	20	ug/kg	49.9	ND	101	60-140			
Naphthalene	52.9	5.0	ug/kg	49.9	ND	106	40-155			
n-Propylbenzene	54.2	2.0	ug/kg	49.9	ND	109	65-140			
Styrene	59.0	2.0	ug/kg	49.9	ND	118	70-140			
1,1,1,2-Tetrachloroethane	54.2	5.0	ug/kg	49.9	ND	109	70-140			
1,1,2,2-Tetrachloroethane	38.4	2.0	ug/kg	49.9	ND	77	45-155			
Tetrachloroethene	57.2	2.0	ug/kg	49.9	ND	115	65-135			
Toluene	55.0	2.0	ug/kg	49.9	ND	110	70-125			
1,2,3-Trichlorobenzene	59.3	5.0	ug/kg	49.9	ND	119	50-140			
1,2,4-Trichlorobenzene	62.5	5.0	ug/kg	49.9	ND	125	55-135			
1,1,1-Trichloroethane	61.7	2.0	ug/kg	49.9	ND	124	65-140			
1,1,2-Trichloroethane	48.9	2.0	ug/kg	49.9	ND	98	65-135			
Trichloroethene	50.4	2.0	ug/kg	49.9	ND	101	70-135			
Trichlorofluoromethane	69.2	5.0	ug/kg	49.9	ND	139	50-150			
1,2,3-Trichloropropane	46.1	10	ug/kg	49.9	ND	92	55-145			
1,2,4-Trimethylbenzene	54.8	2.0	ug/kg	49.9	ND	110	65-135			
1,3,5-Trimethylbenzene	54.7	2.0	ug/kg	49.9	ND	110	70-130			
Vinyl chloride	51.0	5.0	ug/kg	49.9	ND	102	50-135			
o-Xylene	56.3	2.0	ug/kg	49.9	ND	113	70-125			
m,p-Xylenes	110	2.0	ug/kg	99.8	ND	110	70-125			
Surrogate: Dibromofluoromethane	53.4		ug/kg	49.9		107	80-125			
Surrogate: Toluene-d8	49.8		ug/kg	49.9		100	80-120			
Surrogate: 4-Bromofluorobenzene	55.9		ug/kg	49.9		112	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06										
Matrix Spike Dup Analyzed: 08/08/2006 (6H08003-MSD1)					Source: IPH0712-01					
Benzene	49.6	2.0	ug/kg	49.3	ND	101	65-130	5	20	
Bromobenzene	56.9	4.9	ug/kg	49.3	ND	115	70-135	8	25	
Bromochloromethane	57.7	4.9	ug/kg	49.3	ND	117	65-140	3	25	
Bromodichloromethane	63.0	2.0	ug/kg	49.3	ND	128	65-140	3	20	
Bromoform	66.1	4.9	ug/kg	49.3	ND	134	50-140	4	30	
Bromomethane	57.7	4.9	ug/kg	49.3	ND	117	55-150	4	25	
n-Butylbenzene	59.9	4.9	ug/kg	49.3	ND	122	55-140	6	30	
sec-Butylbenzene	55.7	4.9	ug/kg	49.3	ND	113	65-130	6	25	
tert-Butylbenzene	60.9	4.9	ug/kg	49.3	ND	124	65-135	7	25	
Carbon tetrachloride	67.0	4.9	ug/kg	49.3	ND	136	65-140	5	25	
Chlorobenzene	57.9	2.0	ug/kg	49.3	ND	117	70-125	5	25	
Chloroethane	49.4	4.9	ug/kg	49.3	ND	100	55-145	7	25	
Chloroform	59.1	2.0	ug/kg	49.3	ND	120	65-130	2	20	
Chloromethane	46.1	4.9	ug/kg	49.3	ND	94	35-140	9	25	
2-Chlorotoluene	54.7	4.9	ug/kg	49.3	ND	111	65-130	5	25	
4-Chlorotoluene	58.9	4.9	ug/kg	49.3	ND	119	70-130	6	25	
Dibromochloromethane	65.9	2.0	ug/kg	49.3	ND	134	65-140	4	25	
1,2-Dibromo-3-chloropropane	51.2	4.9	ug/kg	49.3	ND	104	45-145	6	30	
1,2-Dibromoethane (EDB)	58.0	2.0	ug/kg	49.3	ND	118	65-135	5	25	
Dibromomethane	61.0	2.0	ug/kg	49.3	ND	124	65-135	4	25	
1,2-Dichlorobenzene	58.9	2.0	ug/kg	49.3	ND	119	70-130	5	25	
1,3-Dichlorobenzene	59.5	2.0	ug/kg	49.3	ND	121	70-125	5	25	
1,4-Dichlorobenzene	58.0	2.0	ug/kg	49.3	ND	118	70-125	4	25	
Dichlorodifluoromethane	66.0	4.9	ug/kg	49.3	ND	134	25-155	7	35	
1,1-Dichloroethane	50.2	2.0	ug/kg	49.3	ND	102	65-130	4	25	
1,2-Dichloroethane	57.8	2.0	ug/kg	49.3	ND	117	60-145	3	25	
1,1-Dichloroethene	49.8	4.9	ug/kg	49.3	ND	101	65-135	5	25	
cis-1,2-Dichloroethene	53.8	2.0	ug/kg	49.3	ND	109	65-130	2	25	
trans-1,2-Dichloroethene	52.1	2.0	ug/kg	49.3	ND	106	65-135	4	25	
1,2-Dichloropropane	50.7	2.0	ug/kg	49.3	ND	103	65-125	5	20	
1,3-Dichloropropane	55.1	2.0	ug/kg	49.3	ND	112	65-135	3	25	
2,2-Dichloropropane	64.8	2.0	ug/kg	49.3	ND	131	60-145	4	25	
1,1-Dichloropropene	57.8	2.0	ug/kg	49.3	ND	117	65-135	5	20	
cis-1,3-Dichloropropene	56.3	2.0	ug/kg	49.3	ND	114	70-130	4	25	
trans-1,3-Dichloropropene	61.1	2.0	ug/kg	49.3	ND	124	65-140	3	25	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0453

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08003 Extracted: 08/08/06										
Matrix Spike Dup Analyzed: 08/08/2006 (6H08003-MSD1)					Source: IPH0712-01					
Ethylbenzene	60.0	2.0	ug/kg	49.3	ND	122	70-130	5	25	
Hexachlorobutadiene	64.4	4.9	ug/kg	49.3	ND	131	55-140	7	35	
Isopropylbenzene	61.5	2.0	ug/kg	49.3	ND	125	65-140	8	25	
p-Isopropyltoluene	60.3	2.0	ug/kg	49.3	ND	122	60-135	6	25	
Methylene chloride	54.9	20	ug/kg	49.3	ND	111	60-140	8	25	
Naphthalene	55.8	4.9	ug/kg	49.3	ND	113	40-155	5	40	
n-Propylbenzene	58.7	2.0	ug/kg	49.3	ND	119	65-140	8	25	
Styrene	61.4	2.0	ug/kg	49.3	ND	125	70-140	4	25	
1,1,1,2-Tetrachloroethane	56.4	4.9	ug/kg	49.3	ND	114	70-140	4	20	
1,1,2,2-Tetrachloroethane	41.2	2.0	ug/kg	49.3	ND	84	45-155	7	30	
Tetrachloroethene	60.8	2.0	ug/kg	49.3	ND	123	65-135	6	25	
Toluene	56.8	2.0	ug/kg	49.3	ND	115	70-125	3	20	
1,2,3-Trichlorobenzene	61.6	4.9	ug/kg	49.3	ND	125	50-140	4	30	
1,2,4-Trichlorobenzene	64.4	4.9	ug/kg	49.3	ND	131	55-135	3	30	
1,1,1-Trichloroethane	63.6	2.0	ug/kg	49.3	ND	129	65-140	3	20	
1,1,2-Trichloroethane	49.8	2.0	ug/kg	49.3	ND	101	65-135	2	30	
Trichloroethene	53.4	2.0	ug/kg	49.3	ND	108	70-135	6	25	
Trichlorofluoromethane	71.7	4.9	ug/kg	49.3	ND	145	50-150	4	25	
1,2,3-Trichloropropane	49.8	9.9	ug/kg	49.3	ND	101	55-145	8	30	
1,2,4-Trimethylbenzene	57.8	2.0	ug/kg	49.3	ND	117	65-135	5	25	
1,3,5-Trimethylbenzene	58.3	2.0	ug/kg	49.3	ND	118	70-130	6	25	
Vinyl chloride	56.0	4.9	ug/kg	49.3	ND	114	50-135	9	30	
o-Xylene	59.4	2.0	ug/kg	49.3	ND	120	70-125	5	25	
m,p-Xylenes	115	2.0	ug/kg	98.6	ND	117	70-125	4	25	
Surrogate: Dibromofluoromethane	51.6		ug/kg	49.3		105	80-125			
Surrogate: Toluene-d8	50.0		ug/kg	49.3		101	80-120			
Surrogate: 4-Bromofluorobenzene	54.3		ug/kg	49.3		110	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks
 Report Number: IPH0453

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H07102 Extracted: 08/07/06										
Blank Analyzed: 08/08/2006 (6H07102-BLK1)										
Antimony	ND	10	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	0.50	mg/kg							
Cadmium	ND	0.50	mg/kg							
Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Selenium	ND	2.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	5.0	mg/kg							
LCS Analyzed: 08/08/2006 (6H07102-BS1)										
Antimony	46.8	10	mg/kg	50.0		94	80-120			
Arsenic	44.2	2.0	mg/kg	50.0		88	80-120			
Barium	42.1	1.0	mg/kg	50.0		84	80-120			
Beryllium	44.3	0.50	mg/kg	50.0		89	80-120			
Cadmium	42.8	0.50	mg/kg	50.0		86	80-120			
Chromium	43.0	1.0	mg/kg	50.0		86	80-120			
Cobalt	43.3	1.0	mg/kg	50.0		87	80-120			
Copper	44.7	2.0	mg/kg	50.0		89	80-120			
Lead	44.6	2.0	mg/kg	50.0		89	80-120			
Molybdenum	41.7	2.0	mg/kg	50.0		83	80-120			
Nickel	42.5	2.0	mg/kg	50.0		85	80-120			
Selenium	43.9	2.0	mg/kg	50.0		88	80-120			
Silver	22.3	1.0	mg/kg	25.0		89	80-120			
Thallium	44.2	10	mg/kg	50.0		88	80-120			
Vanadium	42.4	1.0	mg/kg	50.0		85	80-120			
Zinc	50.4	5.0	mg/kg	50.0		101	80-120			

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06
 Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H07102 Extracted: 08/07/06										
Matrix Spike Analyzed: 08/08/2006 (6H07102-MS1)					Source: IPH0575-03					
Antimony	29.1	10	mg/kg	49.8	ND	58	75-125			M2
Arsenic	41.1	2.0	mg/kg	49.8	1.2	80	75-125			
Barium	68.1	1.0	mg/kg	49.8	30	77	75-125			
Beryllium	41.1	0.50	mg/kg	49.8	ND	83	75-125			
Cadmium	39.2	0.50	mg/kg	49.8	ND	79	75-125			
Chromium	43.6	1.0	mg/kg	49.8	4.7	78	75-125			
Cobalt	42.7	1.0	mg/kg	49.8	2.4	81	75-125			
Copper	47.1	2.0	mg/kg	49.8	4.8	85	75-125			
Lead	41.9	2.0	mg/kg	49.8	2.3	80	75-125			
Molybdenum	38.8	2.0	mg/kg	49.8	ND	78	75-125			
Nickel	41.8	2.0	mg/kg	49.8	3.0	78	75-125			
Selenium	37.7	2.0	mg/kg	49.8	ND	76	75-125			
Silver	21.0	1.0	mg/kg	24.9	0.40	83	75-125			
Thallium	40.4	10	mg/kg	49.8	ND	81	75-125			
Vanadium	52.5	1.0	mg/kg	49.8	15	75	75-125			
Zinc	54.7	5.0	mg/kg	49.8	16	78	75-125			
Matrix Spike Dup Analyzed: 08/08/2006 (6H07102-MSD1)					Source: IPH0575-03					
Antimony	28.3	10	mg/kg	49.8	ND	57	75-125	3	20	M2
Arsenic	40.4	2.0	mg/kg	49.8	1.2	79	75-125	2	20	
Barium	66.1	1.0	mg/kg	49.8	30	72	75-125	3	20	M2
Beryllium	40.0	0.50	mg/kg	49.8	ND	80	75-125	3	20	
Cadmium	38.1	0.50	mg/kg	49.8	ND	77	75-125	3	20	
Chromium	42.7	1.0	mg/kg	49.8	4.7	76	75-125	2	20	
Cobalt	42.0	1.0	mg/kg	49.8	2.4	80	75-125	2	20	
Copper	45.4	2.0	mg/kg	49.8	4.8	82	75-125	4	20	
Lead	41.4	2.0	mg/kg	49.8	2.3	79	75-125	1	20	
Molybdenum	38.3	2.0	mg/kg	49.8	ND	77	75-125	1	20	
Nickel	40.5	2.0	mg/kg	49.8	3.0	75	75-125	3	20	
Selenium	37.5	2.0	mg/kg	49.8	ND	75	75-125	1	20	
Silver	20.2	1.0	mg/kg	24.9	0.40	80	75-125	4	20	
Thallium	40.2	10	mg/kg	49.8	ND	81	75-125	1	20	
Vanadium	50.3	1.0	mg/kg	49.8	15	71	75-125	4	20	M2
Zinc	53.3	5.0	mg/kg	49.8	16	75	75-125	3	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06

Received: 08/03/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H08118 Extracted: 08/08/06										
Blank Analyzed: 08/09/2006 (6H08118-BLK1)										
Mercury	ND	0.020	mg/kg							
LCS Analyzed: 08/09/2006 (6H08118-BS1)										
Mercury	0.759	0.020	mg/kg	0.800		95	85-120			
Matrix Spike Analyzed: 08/09/2006 (6H08118-MS1)										
Mercury	0.743	0.020	mg/kg	0.800	0.011	91	65-135			
Matrix Spike Dup Analyzed: 08/09/2006 (6H08118-MSD1)										
Mercury	0.735	0.020	mg/kg	0.800	0.011	90	65-135	1	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06

Received: 08/03/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H10151 Extracted: 08/10/06										
Duplicate Analyzed: 08/10/2006 (6H10151-DUP1)										
Percent Moisture	86.9	0.10	%		87			0	20	
					Source: IPH0452-01					

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06

Received: 08/03/06

DATA QUALIFIERS AND DEFINITIONS

- A-01** Matrix effect confirmed by second analysis
- I** Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- Z** Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Storage Tanks

Report Number: IPH0453

Sampled: 08/02/06

Received: 08/03/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		
EPA 6010B	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
Haz Waste Scree	Soil		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-Haz. Waste

Samples: IPH0453-01

TestAmerica - Irvine, CA

Lisa Reightley For Michele Chamberlin

Project Manager

Michele Chamberlin

From: Eric S Tsai [Eric.S.Tsai@us.mwhglobal.com]
Sent: Friday, August 04, 2006 10:55 AM
To: Michele Chamberlin
Cc: Banaga, Richard M
Subject: Re: R2A Pond sampling next week

Hi Michele.

Per our discussion today, we'll be sampling on Thursday next week and for all subsequent weeks.

* Also, the COC's that I submitted to you were incorrect. If you could analyze for Title 22 metals instead of Total Recoverable metals for all of the hazardous waste characterization samples of the filter media, that would be much appreciated.

Thanks!

Regards,

Eric Tsai

 Eric Tsai, EIT
 Associate Engineer
 MWH, Pasadena
 Phone: (626) 568-6277
 Fax: (626) 568-6101
 Eric.S.Tsai@Mwhglobal.com

"Michele Chamberlin" <mchamberlin@testamericainc.com>

"Michele Chamberlin"
 <mchamberlin@testamericainc.com>

08/04/2006 10:10 AM

To "Eric S Tsai"
 <Eric.S.Tsai@us.mwhglobal.com>,
 "Banaga, Richard M"
 <richard.m.banaga@boeing.com>
 cc

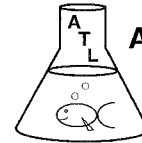
Subject: R2A Pond sampling next week

Hi Eric/Rick,

When do you plan on sampling this next week? Please let me know so that I can add you to the schedule.

Thanks and have a good day.

LABORATORY REPORT



**Aquatic
Testing
Laboratories**

"dedicated to providing quality aquatic toxicity testing"

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Date: August 12, 2006
Client: Del Mar Analytical, Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Michele Chamberlin

Laboratory No.: A-06080704-001
Sample ID.: IPH0453-01

Sample Control: The samples were received by ATL in a chilled state, with the chain of custody record attached.

Date Sampled: 08/02/06
Date Received: 08/07/06
Date Tested: 08/07/06 to 08/12/06

Sample Analysis: The following analyses were performed on your sample:
CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay (Polisini & Miller 1988).
Attached are the test data generated from the analysis of your sample.

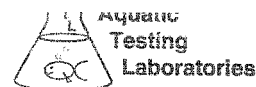
Result Summary:

<u>Sample ID.</u>	<u>Results</u>
IPH0453-01	PASSED (LC50 > 750 mg/l)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

**FATHEAD MINNOW HAZARDOUS WASTE
SCREEN BIOASSAY**



Lab No.: A06080704-001
Client/ID: Test America 1PH0453-01

TEST SUMMARY

Species: <i>Pimephales promelas</i> .	Source: In-lab culture.
Fish length (mm): av: 26; min: 24; max: 28.	Regulations: CCR Title 22.
Fish weight (gm): av: 0.36; min: 0.28; max: 0.42.	Test Protocol: California F&G/DHS 1988.
Test chamber volume: 10 liters.	Endpoints: Survival at 96 hrs.
Temperature: 20 +/- 2°C.	Test type: Static.
Aeration: Single bubble through narrow bore tube.	Feeding: None.
Number of replicates: 2.	Number of fish per chamber: 10.
Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO ₃).	Photoperiod: 16/8 hrs light/dark.
QA/QC Batch No.: RT-060724.	

TEST DATA

	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D
Date/Time:	8-8-06 1100				8-9-06 1000				8-10-06 1100				8-11-06 1200				8-12-06 1100			
Analyst:	R				R				R				R				R			
Control A	19.8	8.0	7.3	0	20.4	8.0	7.0	0	20.4	7.9	6.9	0	20.5	8.0	6.9	0	20.5	8.1	7.0	0
Control B	19.7	8.1	7.3	0	20.3	7.6	7.0	0	20.3	7.6	6.9	0	20.4	7.7	6.9	0	20.4	7.8	7.1	0
400 mg/l A	20.1	8.2	7.3	0	20.4	7.8	6.9	0	20.4	8.3	7.0	0	20.5	8.2	7.0	0	20.9	8.0	7.0	0
400 mg/l B	20.0	8.1	7.3	0	20.3	8.2	7.0	0	20.4	8.4	7.0	0	20.4	8.3	7.0	0	20.4	8.3	7.0	0
750 mg/l A	19.9	8.3	7.3	0	20.3	8.3	7.0	0	20.3	8.5	7.0	0	20.3	8.1	7.0	0	20.3	8.1	6.9	0
750 mg/l B	19.9	8.3	7.3	0	20.2	8.5	7.1	0	20.3	8.7	7.1	0	20.3	8.5	7.0	0	20.3	8.6	6.9	0
Comments:	Extraction method: Mechanical shaking <input checked="" type="checkbox"/> . None (aqueous solution) <input type="checkbox"/> .																			

	CONTROL		HIGH CONCENTRATION		Total Number Dead	
	Alkalinity	Hardness	Alkalinity	Hardness	Control	400 mg/l
Initial	25 mg/l CaCO ₃	45 mg/l CaCO ₃	25 mg/l CaCO ₃	46 mg/l CaCO ₃	0	0
Final	26 mg/l CaCO ₃	46 mg/l CaCO ₃	25 mg/l CaCO ₃	47 mg/l CaCO ₃	0	0

RESULTS

✓ (one)	Result	Description
X	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
-	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
-	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

SUBCONTRACT ORDER - PROJECT # IPH0453

SENDING LABORATORY:

TestAmerica - Irvine, CA
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone : (805) 650-0546
Fax: (805) 650-0756

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IPH0453-01 Soil	Sampled: 08/02/06 17:00	
Bioassay-Haz. Waste	08/09/06 17:00	Sub to AqTox

Containers Supplied:
2 oz jar (IPH0453-01B)

SAMPLE INTEGRITY:

All containers intact: Yes No
Custody Seals Present: Yes No
Sample labels/COC agree: Yes No
Samples Preserved Properly: Yes No
Samples Received On Ice: Yes No
Samples Received at (temp): 20C

Released By: [Signature] Date: 8/7/06 Time: 0700 Received By: [Signature] Date: 8/7/06 Time: 0700
Released By: [Signature] Date: 8/7/06 Time: 12:00 Received By: [Signature] Date: 8/7/06 Time: 1200

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Waste Characterization
Media Waste Characterization

Sampled: 08/08/06
Received: 08/10/06
Issued: 08/26/06 11:36

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID

IPH1170-01

CLIENT ID

BST-WC

MATRIX

Soil

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH1170

Sampled: 08/08/06
 Received: 08/10/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1170-01 (BST-WC - Soil)								RL-1
Reporting Units: ug/kg								
Benzene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Bromobenzene	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
Bromochloromethane	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
Bromodichloromethane	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Bromoform	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
Bromomethane	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
n-Butylbenzene	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
sec-Butylbenzene	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
tert-Butylbenzene	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
Carbon tetrachloride	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
Chlorobenzene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Chloroethane	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
Chloroform	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Chloromethane	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
2-Chlorotoluene	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
4-Chlorotoluene	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
Dibromochloromethane	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
1,2-Dibromo-3-chloropropane	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
1,2-Dibromoethane (EDB)	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Dibromomethane	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
1,2-Dichlorobenzene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
1,3-Dichlorobenzene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
1,4-Dichlorobenzene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Dichlorodifluoromethane	EPA 8260B	6H21017	1700	ND	826	8/21/2006	8/21/2006	
1,1-Dichloroethane	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
1,2-Dichloroethane	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
1,1-Dichloroethene	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
cis-1,2-Dichloroethene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
trans-1,2-Dichloroethene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
1,2-Dichloropropane	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
1,3-Dichloropropane	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
2,2-Dichloropropane	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
1,1-Dichloropropene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
cis-1,3-Dichloropropene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
trans-1,3-Dichloropropene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Ethylbenzene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Hexachlorobutadiene	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
Isopropylbenzene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
p-Isopropyltoluene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Methylene chloride	EPA 8260B	6H21017	8300	ND	826	8/21/2006	8/21/2006	
Naphthalene	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH1170

Sampled: 08/08/06
 Received: 08/10/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1170-01 (BST-WC - Soil) - cont.								RL-1
Reporting Units: ug/kg								
n-Propylbenzene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Styrene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
1,1,1,2-Tetrachloroethane	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
1,1,2,2-Tetrachloroethane	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Tetrachloroethene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Toluene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
1,2,3-Trichlorobenzene	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
1,2,4-Trichlorobenzene	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
1,1,1-Trichloroethane	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
1,1,2-Trichloroethane	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Trichloroethene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Trichlorofluoromethane	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
1,2,3-Trichloropropane	EPA 8260B	6H21017	4100	ND	826	8/21/2006	8/21/2006	
1,2,4-Trimethylbenzene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
1,3,5-Trimethylbenzene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
Vinyl chloride	EPA 8260B	6H21017	2100	ND	826	8/21/2006	8/21/2006	
o-Xylene	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
m,p-Xylenes	EPA 8260B	6H21017	830	ND	826	8/21/2006	8/21/2006	
<i>Surrogate: Dibromofluoromethane (55-140%)</i>				101 %				
<i>Surrogate: Toluene-d8 (60-140%)</i>				110 %				
<i>Surrogate: 4-Bromofluorobenzene (65-140%)</i>				108 %				

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH1170

Sampled: 08/08/06
 Received: 08/10/06

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1170-01 (BST-WC - Soil)								
Reporting Units: mg/kg								
Antimony	EPA 6010B	6H14102	10	ND	0.995	8/14/2006	8/21/2006	
Arsenic	EPA 6010B	6H14102	2.0	ND	0.995	8/14/2006	8/18/2006	
Barium	EPA 6010B	6H14102	1.0	11	0.995	8/14/2006	8/18/2006	
Beryllium	EPA 6010B	6H14102	0.50	ND	0.995	8/14/2006	8/18/2006	
Cadmium	EPA 6010B	6H14102	0.50	ND	0.995	8/14/2006	8/18/2006	
Chromium	EPA 6010B	6H14102	1.0	2.6	0.995	8/14/2006	8/18/2006	
Cobalt	EPA 6010B	6H14102	1.0	ND	0.995	8/14/2006	8/18/2006	
Copper	EPA 6010B	6H14102	2.0	3.2	0.995	8/14/2006	8/18/2006	
Lead	EPA 6010B	6H14102	2.0	ND	0.995	8/14/2006	8/18/2006	
Mercury	EPA 7471A	6H16105	0.020	ND	1	8/16/2006	8/16/2006	
Molybdenum	EPA 6010B	6H14102	2.0	ND	0.995	8/14/2006	8/18/2006	
Nickel	EPA 6010B	6H14102	2.0	ND	0.995	8/14/2006	8/18/2006	
Selenium	EPA 6010B	6H14102	2.0	ND	0.995	8/14/2006	8/18/2006	
Silver	EPA 6010B	6H14102	1.0	ND	0.995	8/14/2006	8/18/2006	
Thallium	EPA 6010B	6H14102	10	ND	0.995	8/14/2006	8/18/2006	
Vanadium	EPA 6010B	6H14102	1.0	5.9	0.995	8/14/2006	8/18/2006	
Zinc	EPA 6010B	6H14102	5.0	23	0.995	8/14/2006	8/18/2006	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Waste Characterization
Media Waste Characterization
Report Number: IPH1170

Sampled: 08/08/06
Received: 08/10/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1170-01 (BST-WC - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6H17182	0.10	87	1	8/17/2006	8/17/2006	

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH1170

Sampled: 08/08/06
 Received: 08/10/06

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

Analyte	Units	Sample Result	STLC	TTLC	TCLP
			Max. Limit mg/L (ppm)	Max. Limit mg/Kg (ppm)	Max. Limit mg/L (ppm)
IPH1170-01 (BST-WC - Soil) EPA 6010B					
Antimony	mg/kg	ND	15	500	
Arsenic	mg/kg	ND	5.0	500	5.0
Barium	mg/kg	11	100	10000	100
Beryllium	mg/kg	ND	0.75	75	
Cadmium	mg/kg	ND	1.0	100	1.0
Chromium	mg/kg	2.6	5.0	2500	5.0
Cobalt	mg/kg	ND	80	8000	
Copper	mg/kg	3.2	25	2500	
Lead	mg/kg	ND	5.0	1000	5.0
Mercury	mg/kg	ND	0.20	20	0.20
Molybdenum	mg/kg	ND	350	3500	
Nickel	mg/kg	ND	20	2000	
Selenium	mg/kg	ND	1.0	100	1.0
Silver	mg/kg	ND	5.0	500	5.0
Thallium	mg/kg	ND	7.0	700	
Vanadium	mg/kg	5.9	24	2400	
Zinc	mg/kg	23	250	5000	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH1170

Sampled: 08/08/06
 Received: 08/10/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Data Qualifiers
Batch: 6H21017 Extracted: 08/21/06										
Blank Analyzed: 08/23/2006 (6H21017-BLK1)										
Benzene	ND	100	ug/kg							
Bromobenzene	ND	250	ug/kg							
Bromochloromethane	ND	250	ug/kg							
Bromodichloromethane	ND	100	ug/kg							
Bromoform	ND	250	ug/kg							
Bromomethane	ND	250	ug/kg							
n-Butylbenzene	ND	250	ug/kg							
sec-Butylbenzene	ND	250	ug/kg							
tert-Butylbenzene	ND	250	ug/kg							
Carbon tetrachloride	ND	250	ug/kg							
Chlorobenzene	ND	100	ug/kg							
Chloroethane	ND	250	ug/kg							
Chloroform	ND	100	ug/kg							
Chloromethane	ND	250	ug/kg							
2-Chlorotoluene	ND	250	ug/kg							
4-Chlorotoluene	ND	250	ug/kg							
Dibromochloromethane	ND	100	ug/kg							
1,2-Dibromo-3-chloropropane	ND	250	ug/kg							
1,2-Dibromoethane (EDB)	ND	100	ug/kg							
Dibromomethane	ND	100	ug/kg							
1,2-Dichlorobenzene	ND	100	ug/kg							
1,3-Dichlorobenzene	ND	100	ug/kg							
1,4-Dichlorobenzene	ND	100	ug/kg							
Dichlorodifluoromethane	ND	200	ug/kg							
1,1-Dichloroethane	ND	100	ug/kg							
1,2-Dichloroethane	ND	100	ug/kg							
1,1-Dichloroethene	ND	250	ug/kg							
cis-1,2-Dichloroethene	ND	100	ug/kg							
trans-1,2-Dichloroethene	ND	100	ug/kg							
1,2-Dichloropropane	ND	100	ug/kg							
1,3-Dichloropropane	ND	100	ug/kg							
2,2-Dichloropropane	ND	100	ug/kg							
1,1-Dichloropropene	ND	100	ug/kg							
cis-1,3-Dichloropropene	ND	100	ug/kg							
trans-1,3-Dichloropropene	ND	100	ug/kg							

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH1170

Sampled: 08/08/06
 Received: 08/10/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H21017 Extracted: 08/21/06										
Blank Analyzed: 08/23/2006 (6H21017-BLK1)										
Ethylbenzene	ND	100	ug/kg							
Hexachlorobutadiene	ND	250	ug/kg							
Isopropylbenzene	ND	100	ug/kg							
p-Isopropyltoluene	ND	100	ug/kg							
Methylene chloride	ND	1000	ug/kg							
Naphthalene	ND	250	ug/kg							
n-Propylbenzene	ND	100	ug/kg							
Styrene	ND	100	ug/kg							
1,1,1,2-Tetrachloroethane	ND	250	ug/kg							
1,1,2,2-Tetrachloroethane	ND	100	ug/kg							
Tetrachloroethene	ND	100	ug/kg							
Toluene	ND	100	ug/kg							
1,2,3-Trichlorobenzene	ND	250	ug/kg							
1,2,4-Trichlorobenzene	ND	250	ug/kg							
1,1,1-Trichloroethane	ND	100	ug/kg							
1,1,2-Trichloroethane	ND	100	ug/kg							
Trichloroethene	ND	100	ug/kg							
Trichlorofluoromethane	ND	250	ug/kg							
1,2,3-Trichloropropane	ND	500	ug/kg							
1,2,4-Trimethylbenzene	ND	100	ug/kg							
1,3,5-Trimethylbenzene	ND	100	ug/kg							
Vinyl chloride	ND	250	ug/kg							
o-Xylene	ND	100	ug/kg							
m,p-Xylenes	ND	100	ug/kg							
Surrogate: Dibromofluoromethane	2170		ug/kg	2500		87	55-140			
Surrogate: Toluene-d8	2380		ug/kg	2500		95	60-140			
Surrogate: 4-Bromofluorobenzene	2280		ug/kg	2500		91	65-140			

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH1170

Sampled: 08/08/06
 Received: 08/10/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H21017 Extracted: 08/21/06										
LCS Analyzed: 08/24/2006 (6H21017-BS1)										
Benzene	2370	100	ug/kg	2500		95	65-120			M-NR
Bromobenzene	2310	250	ug/kg	2500		92	70-120			
Bromochloromethane	2510	250	ug/kg	2500		100	65-125			
Bromodichloromethane	2460	100	ug/kg	2500		98	65-135			
Bromoform	2110	250	ug/kg	2500		84	50-130			
Bromomethane	2080	250	ug/kg	2500		83	30-140			
n-Butylbenzene	2560	250	ug/kg	2500		102	70-130			
sec-Butylbenzene	2490	250	ug/kg	2500		100	70-125			
tert-Butylbenzene	2400	250	ug/kg	2500		96	70-125			
Carbon tetrachloride	2430	250	ug/kg	2500		97	65-145			
Chlorobenzene	2380	100	ug/kg	2500		95	70-125			
Chloroethane	2220	250	ug/kg	2500		89	40-140			
Chloroform	2460	100	ug/kg	2500		98	75-130			
Chloromethane	1400	250	ug/kg	2500		56	30-140			
2-Chlorotoluene	2400	250	ug/kg	2500		96	70-125			
4-Chlorotoluene	2440	250	ug/kg	2500		98	70-125			
Dibromochloromethane	2580	100	ug/kg	2500		103	65-140			
1,2-Dibromo-3-chloropropane	2070	250	ug/kg	2500		83	45-135			
1,2-Dibromoethane (EDB)	2440	100	ug/kg	2500		98	70-130			
Dibromomethane	2480	100	ug/kg	2500		99	65-130			
1,2-Dichlorobenzene	2420	100	ug/kg	2500		97	70-120			
1,3-Dichlorobenzene	2430	100	ug/kg	2500		97	70-125			
1,4-Dichlorobenzene	2370	100	ug/kg	2500		95	70-125			
Dichlorodifluoromethane	559	200	ug/kg	2500		22	10-155			
1,1-Dichloroethane	2450	100	ug/kg	2500		98	65-130			
1,2-Dichloroethane	2090	100	ug/kg	2500		84	60-145			
1,1-Dichloroethene	2200	250	ug/kg	2500		88	75-140			
cis-1,2-Dichloroethene	2430	100	ug/kg	2500		97	65-130			
trans-1,2-Dichloroethene	2400	100	ug/kg	2500		96	65-130			
1,2-Dichloropropane	2550	100	ug/kg	2500		102	75-125			
1,3-Dichloropropane	2420	100	ug/kg	2500		97	65-130			
2,2-Dichloropropane	2520	100	ug/kg	2500		101	60-145			
1,1-Dichloropropene	2480	100	ug/kg	2500		99	70-130			
cis-1,3-Dichloropropene	2370	100	ug/kg	2500		95	70-130			
trans-1,3-Dichloropropene	2430	100	ug/kg	2500		97	65-135			

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Waste Characterization
Media Waste Characterization
Report Number: IPH1170

Sampled: 08/08/06
Received: 08/10/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H21017 Extracted: 08/21/06										
LCS Analyzed: 08/24/2006 (6H21017-BS1)										
Ethylbenzene	2460	100	ug/kg	2500		98	80-120			M-NR
Hexachlorobutadiene	2490	250	ug/kg	2500		100	60-135			
Isopropylbenzene	2700	100	ug/kg	2500		108	70-125			
p-Isopropyltoluene	2480	100	ug/kg	2500		99	70-125			
Methylene chloride	2260	1000	ug/kg	2500		90	60-140			
Naphthalene	2380	250	ug/kg	2500		95	50-140			
n-Propylbenzene	2550	100	ug/kg	2500		102	70-130			
Styrene	2560	100	ug/kg	2500		102	70-135			
1,1,1,2-Tetrachloroethane	2160	250	ug/kg	2500		86	70-140			
1,1,2,2-Tetrachloroethane	1990	100	ug/kg	2500		80	55-135			
Tetrachloroethene	2390	100	ug/kg	2500		96	65-125			
Toluene	2460	100	ug/kg	2500		98	80-120			
1,2,3-Trichlorobenzene	2650	250	ug/kg	2500		106	60-135			
1,2,4-Trichlorobenzene	2700	250	ug/kg	2500		108	65-135			
1,1,1-Trichloroethane	2380	100	ug/kg	2500		95	65-140			
1,1,2-Trichloroethane	2210	100	ug/kg	2500		88	65-130			
Trichloroethene	2180	100	ug/kg	2500		87	70-130			
Trichlorofluoromethane	2400	250	ug/kg	2500		96	50-145			
1,2,3-Trichloropropane	2210	500	ug/kg	2500		88	55-130			
1,2,4-Trimethylbenzene	2500	100	ug/kg	2500		100	70-125			
1,3,5-Trimethylbenzene	2460	100	ug/kg	2500		98	70-125			
Vinyl chloride	469	250	ug/kg	2500		19	10-120			
o-Xylene	2490	100	ug/kg	2500		100	70-125			
m,p-Xylenes	4980	100	ug/kg	5000		100	70-125			
Surrogate: Dibromofluoromethane	2490		ug/kg	2500		100	55-140			
Surrogate: Toluene-d8	2580		ug/kg	2500		103	60-140			
Surrogate: 4-Bromofluorobenzene	2580		ug/kg	2500		103	65-140			

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH1170

Sampled: 08/08/06
 Received: 08/10/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H21017 Extracted: 08/21/06										
LCS Dup Analyzed: 08/24/2006 (6H21017-BSD1)										
Benzene	2360	100	ug/kg	2500		94	65-120	0	20	
Bromobenzene	2340	250	ug/kg	2500		94	70-120	1	20	
Bromochloromethane	2540	250	ug/kg	2500		102	65-125	1	20	
Bromodichloromethane	2430	100	ug/kg	2500		97	65-135	1	20	
Bromoform	2160	250	ug/kg	2500		86	50-130	2	25	
Bromomethane	1990	250	ug/kg	2500		80	30-140	4	30	
n-Butylbenzene	2520	250	ug/kg	2500		101	70-130	2	20	
sec-Butylbenzene	2450	250	ug/kg	2500		98	70-125	2	20	
tert-Butylbenzene	2360	250	ug/kg	2500		94	70-125	2	20	
Carbon tetrachloride	2350	250	ug/kg	2500		94	65-145	3	20	
Chlorobenzene	2340	100	ug/kg	2500		94	70-125	2	20	
Chloroethane	2140	250	ug/kg	2500		86	40-140	4	25	
Chloroform	2490	100	ug/kg	2500		100	75-130	1	20	
Chloromethane	1330	250	ug/kg	2500		53	30-140	5	25	
2-Chlorotoluene	2350	250	ug/kg	2500		94	70-125	2	20	
4-Chlorotoluene	2400	250	ug/kg	2500		96	70-125	2	20	
Dibromochloromethane	2540	100	ug/kg	2500		102	65-140	2	20	
1,2-Dibromo-3-chloropropane	2310	250	ug/kg	2500		92	45-135	11	25	
1,2-Dibromoethane (EDB)	2510	100	ug/kg	2500		100	70-130	3	20	
Dibromomethane	2500	100	ug/kg	2500		100	65-130	1	20	
1,2-Dichlorobenzene	2410	100	ug/kg	2500		96	70-120	0	20	
1,3-Dichlorobenzene	2410	100	ug/kg	2500		96	70-125	1	20	
1,4-Dichlorobenzene	2350	100	ug/kg	2500		94	70-125	1	20	
Dichlorodifluoromethane	540	200	ug/kg	2500		22	10-155	3	30	
1,1-Dichloroethane	2440	100	ug/kg	2500		98	65-130	0	20	
1,2-Dichloroethane	2120	100	ug/kg	2500		85	60-145	1	20	
1,1-Dichloroethene	2180	250	ug/kg	2500		87	75-140	1	20	
cis-1,2-Dichloroethene	2450	100	ug/kg	2500		98	65-130	1	20	
trans-1,2-Dichloroethene	2380	100	ug/kg	2500		95	65-130	1	20	
1,2-Dichloropropane	2530	100	ug/kg	2500		101	75-125	1	20	
1,3-Dichloropropane	2410	100	ug/kg	2500		96	65-130	0	20	
2,2-Dichloropropane	2490	100	ug/kg	2500		100	60-145	1	25	
1,1-Dichloropropene	2410	100	ug/kg	2500		96	70-130	3	20	
cis-1,3-Dichloropropene	2390	100	ug/kg	2500		96	70-130	1	20	
trans-1,3-Dichloropropene	2440	100	ug/kg	2500		98	65-135	0	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Waste Characterization
Media Waste Characterization
Report Number: IPH1170

Sampled: 08/08/06
Received: 08/10/06

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H21017 Extracted: 08/21/06										
LCS Dup Analyzed: 08/24/2006 (6H21017-BSD1)										
Ethylbenzene	2440	100	ug/kg	2500		98	80-120	1	20	
Hexachlorobutadiene	2530	250	ug/kg	2500		101	60-135	2	20	
Isopropylbenzene	2680	100	ug/kg	2500		107	70-125	1	20	
p-Isopropyltoluene	2440	100	ug/kg	2500		98	70-125	2	20	
Methylene chloride	2240	1000	ug/kg	2500		90	60-140	1	20	
Naphthalene	2530	250	ug/kg	2500		101	50-140	6	25	
n-Propylbenzene	2540	100	ug/kg	2500		102	70-130	0	20	
Styrene	2540	100	ug/kg	2500		102	70-135	1	20	
1,1,1,2-Tetrachloroethane	2130	250	ug/kg	2500		85	70-140	1	20	
1,1,2,2-Tetrachloroethane	2160	100	ug/kg	2500		86	55-135	8	25	
Tetrachloroethene	2320	100	ug/kg	2500		93	65-125	3	20	
Toluene	2370	100	ug/kg	2500		95	80-120	4	20	
1,2,3-Trichlorobenzene	2730	250	ug/kg	2500		109	60-135	3	20	
1,2,4-Trichlorobenzene	2730	250	ug/kg	2500		109	65-135	1	20	
1,1,1-Trichloroethane	2380	100	ug/kg	2500		95	65-140	0	20	
1,1,2-Trichloroethane	2270	100	ug/kg	2500		91	65-130	3	20	
Trichloroethene	2130	100	ug/kg	2500		85	70-130	2	20	
Trichlorofluoromethane	2320	250	ug/kg	2500		93	50-145	3	25	
1,2,3-Trichloropropane	2400	500	ug/kg	2500		96	55-130	8	25	
1,2,4-Trimethylbenzene	2410	100	ug/kg	2500		96	70-125	4	20	
1,3,5-Trimethylbenzene	2460	100	ug/kg	2500		98	70-125	0	20	
Vinyl chloride	419	250	ug/kg	2500		17	10-120	11	30	
o-Xylene	2430	100	ug/kg	2500		97	70-125	2	20	
m,p-Xylenes	4890	100	ug/kg	5000		98	70-125	2	20	
Surrogate: Dibromofluoromethane	2520		ug/kg	2500		101	55-140			
Surrogate: Toluene-d8	2570		ug/kg	2500		103	60-140			
Surrogate: 4-Bromofluorobenzene	2550		ug/kg	2500		102	65-140			

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH1170

Sampled: 08/08/06
 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H14102 Extracted: 08/14/06										
Blank Analyzed: 08/18/2006-08/19/2006 (6H14102-BLK1)										
Antimony	ND	10	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	0.50	mg/kg							
Cadmium	ND	0.50	mg/kg							
Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Selenium	ND	2.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	5.0	mg/kg							
LCS Analyzed: 08/18/2006-08/19/2006 (6H14102-BS1)										
Antimony	47.4	10	mg/kg	50.0		95	80-120			
Arsenic	43.6	2.0	mg/kg	50.0		87	80-120			
Barium	44.0	1.0	mg/kg	50.0		88	80-120			
Beryllium	44.8	0.50	mg/kg	50.0		90	80-120			
Cadmium	43.4	0.50	mg/kg	50.0		87	80-120			
Chromium	44.4	1.0	mg/kg	50.0		89	80-120			
Cobalt	46.3	1.0	mg/kg	50.0		93	80-120			
Copper	43.4	2.0	mg/kg	50.0		87	80-120			
Lead	45.3	2.0	mg/kg	50.0		91	80-120			
Molybdenum	43.2	2.0	mg/kg	50.0		86	80-120			
Nickel	43.9	2.0	mg/kg	50.0		88	80-120			
Selenium	40.8	2.0	mg/kg	50.0		82	80-120			
Silver	22.5	1.0	mg/kg	25.0		90	80-120			
Thallium	43.8	10	mg/kg	50.0		88	80-120			
Vanadium	44.1	1.0	mg/kg	50.0		88	80-120			
Zinc	43.1	5.0	mg/kg	50.0		86	80-120			

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH1170

Sampled: 08/08/06
 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H14102 Extracted: 08/14/06										
Matrix Spike Analyzed: 08/18/2006-08/19/2006 (6H14102-MS1)					Source: IPH1162-26					
Antimony	24.0	10	mg/kg	49.8	4.9	38	75-125			M2
Arsenic	45.9	2.0	mg/kg	49.8	1.9	88	75-125			
Barium	156	1.0	mg/kg	49.8	86	141	75-125			M1
Beryllium	44.6	0.50	mg/kg	49.8	ND	90	75-125			
Cadmium	46.3	0.50	mg/kg	49.8	2.4	88	75-125			
Chromium	91.8	1.0	mg/kg	49.8	41	102	75-125			
Cobalt	52.7	1.0	mg/kg	49.8	5.1	96	75-125			
Copper	68.5	2.0	mg/kg	49.8	20	97	75-125			
Lead	48.8	2.0	mg/kg	49.8	2.7	93	75-125			
Molybdenum	42.3	2.0	mg/kg	49.8	0.85	83	75-125			
Nickel	84.3	2.0	mg/kg	49.8	38	93	75-125			
Selenium	40.7	2.0	mg/kg	49.8	ND	82	75-125			
Silver	23.0	1.0	mg/kg	24.9	ND	92	75-125			
Thallium	44.7	10	mg/kg	49.8	ND	90	75-125			
Vanadium	128	1.0	mg/kg	49.8	66	124	75-125			
Zinc	96.8	5.0	mg/kg	49.8	52	90	75-125			
Matrix Spike Dup Analyzed: 08/18/2006-08/19/2006 (6H14102-MSD1)					Source: IPH1162-26					
Antimony	25.0	10	mg/kg	49.8	4.9	40	75-125	4	20	M2
Arsenic	47.6	2.0	mg/kg	49.8	1.9	92	75-125	4	20	
Barium	120	1.0	mg/kg	49.8	86	68	75-125	26	20	M2, R-3
Beryllium	48.7	0.50	mg/kg	49.8	ND	98	75-125	9	20	
Cadmium	48.7	0.50	mg/kg	49.8	2.4	93	75-125	5	20	
Chromium	86.8	1.0	mg/kg	49.8	41	92	75-125	6	20	
Cobalt	55.5	1.0	mg/kg	49.8	5.1	101	75-125	5	20	
Copper	71.5	2.0	mg/kg	49.8	20	103	75-125	4	20	
Lead	50.8	2.0	mg/kg	49.8	2.7	97	75-125	4	20	
Molybdenum	44.0	2.0	mg/kg	49.8	0.85	87	75-125	4	20	
Nickel	86.1	2.0	mg/kg	49.8	38	97	75-125	2	20	
Selenium	42.1	2.0	mg/kg	49.8	ND	85	75-125	3	20	
Silver	24.5	1.0	mg/kg	24.9	ND	98	75-125	6	20	
Thallium	46.4	10	mg/kg	49.8	ND	93	75-125	4	20	
Vanadium	124	1.0	mg/kg	49.8	66	116	75-125	3	20	
Zinc	97.9	5.0	mg/kg	49.8	52	92	75-125	1	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH1170

Sampled: 08/08/06
 Received: 08/10/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H16105 Extracted: 08/16/06										
Blank Analyzed: 08/16/2006 (6H16105-BLK1)										
Mercury	ND	0.020	mg/kg							
LCS Analyzed: 08/16/2006 (6H16105-BS1)										
Mercury	0.694	0.020	mg/kg	0.800		87	85-120			
Matrix Spike Analyzed: 08/16/2006 (6H16105-MS1)										
Mercury	0.759	0.020	mg/kg	0.800	ND	95	65-135			
Matrix Spike Dup Analyzed: 08/16/2006 (6H16105-MSD1)										
Mercury	0.711	0.020	mg/kg	0.800	ND	89	65-135	7	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH1170

Sampled: 08/08/06
 Received: 08/10/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17182 Extracted: 08/17/06										
Blank Analyzed: 08/17/2006 (6H17182-BLK1)										
Percent Moisture	ND	0.10	%							
Duplicate Analyzed: 08/17/2006 (6H17182-DUP1)										
Percent Moisture	19.2	0.10	%		19			1	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Waste Characterization
Media Waste Characterization
Report Number: IPH1170

Sampled: 08/08/06
Received: 08/10/06

DATA QUALIFIERS AND DEFINITIONS

- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-NR** No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.
- R-3** The RPD exceeded the method control limit due to sample matrix effects.
- RL-1** Reporting limit raised due to sample matrix effects.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH1170

Sampled: 08/08/06
 Received: 08/10/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		
EPA 6010B	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil-extr	X	X
Haz Waste Scree	Soil		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-Haz. Waste

Samples: IPH1170-01

TestAmerica - Irvine, CA

Michele Chamberlin

Project Manager

LABORATORY REPORT



"dedicated to providing quality aquatic toxicity testing"

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Date: August 23, 2006
Client: Del Mar Analytical, Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Michele Chamberlin

Laboratory No.: A-06081401-001
Sample ID.: IPH1170-01

Sample Control: The samples were received by ATL in a chilled state, with the chain of custody record attached.

Date Sampled: 08/08/06
Date Received: 08/14/06
Date Tested: 08/14/06 to 08/19/06

Sample Analysis: The following analyses were performed on your sample:

CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay (Polisini & Miller 1988).

Attached are the test data generated from the analysis of your sample.

Result Summary:

<u>Sample ID.</u>	<u>Results</u>
IPH1170-01	PASSED (LC50 > 750 mg/l)

Quality Control: Reviewed and approved by:



Joseph A. LeMay
Laboratory Director

**FATHEAD MINNOW HAZARDOUS WASTE
SCREEN BIOASSAY**



Lab No.: A06081401-001

Client/ID: Test America IPH1170-01

TEST SUMMARY

Species: *Pimephales promelas*.
 Fish length (mm): av: 26; min: 24; max: 28.
 Fish weight (gm): av: 0.36; min: 0.28; max: 0.42.
 Test chamber volume: 10 liters.
 Temperature: 20 +/- 2°C.
 Aeration: Single bubble through narrow bore tube.
 Number of replicates: 2.
 Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO₃).
 QA/QC Batch No.: RT-060724.

Source: In-lab culture.
 Regulations: CCR Title 22.
 Test Protocol: California F&G/DHS 1988.
 Endpoints: Survival at 96 hrs.
 Test type: Static.
 Feeding: None.
 Number of fish per chamber: 10.
 Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D
Date/Time:	8-15-06 1030				8-16-06 1030				8-17-06 1030				8-18-06 1200				8-19-06 1200			
Analyst:	Rm				Rm				Rm				Rm				Rm			
Control A	19.8	8.2	7.2	0	20.5	8.2	7.2	0	20.3	8.2	7.2	0	20.4	8.1	7.2	0	20.6	8.2	7.2	0
Control B	19.7	8.2	7.2	0	20.4	8.0	7.2	0	20.2	7.9	7.1	0	20.4	7.9	7.1	0	20.5	7.9	7.1	0
400 mg/l A	19.8	8.1	7.1	0	20.5	7.9	7.1	0	20.3	8.2	7.1	0	20.5	8.3	7.1	0	20.6	8.2	7.1	0
400 mg/l B	19.7	8.1	7.1	0	20.4	7.8	7.1	0	20.3	7.6	7.0	0	20.4	7.9	7.1	0	20.5	7.8	7.1	0
750 mg/l A	19.7	8.1	7.1	0	20.3	8.0	7.0	0	20.2	8.0	7.0	0	20.4	8.3	7.0	0	20.5	7.9	7.0	0
750 mg/l B	19.6	8.2	7.1	0	20.3	8.1	7.0	0	20.2	8.3	6.9	0	20.3	8.3	7.0	0	20.4	8.2	7.1	0
Comments:	Extraction method: Mechanical shaking <input checked="" type="checkbox"/> . None (aqueous solution) <input type="checkbox"/> .																			

	CONTROL		HIGH CONCENTRATION		Total Number Dead	
	Alkalinity	Hardness	Alkalinity	Hardness	Control	750 mg/l
Initial	25 mg/l CaCO ₃	44 mg/l CaCO ₃	26 mg/l CaCO ₃	45 mg/l CaCO ₃	0	0
Final	25 mg/l CaCO ₃	46 mg/l CaCO ₃	26 mg/l CaCO ₃	46 mg/l CaCO ₃	0	0

RESULTS

✓ (one)	Result	Description
X	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
—	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
—	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IPH1170

SENDING LABORATORY:

TestAmerica - Irvine, CA
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Michele Chamberlin

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone : (805) 650-0546
Fax: (805) 650-0756

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IPH1170-01 Soil	Sampled: 08/08/06 10:20	
Bioassay-Haz. Waste	08/15/06 10:20	Sub to AqTox

Containers Supplied:
2 oz jar (IPH1170-01B)

SAMPLE INTEGRITY:

All containers intact: Yes No
Custody Seals Present: Yes No

Sample labels/COC agree: Yes No
Samples Preserved Properly: Yes No

Samples Received On Ice: Yes No
Samples Received at (temp): 20C

Released By: Zulma Antigua Date: 8-14-06 Time: 720 Received By: [Signature] Date: 8-14-06 Time: 720
Released By: [Signature] Date: 8-14-06 Time: 1125 Received By: [Signature] Date: 8-14-06 Time: 1125

FILTER MEDIA MOISTURE CONTENT DATA

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Media Waste Characterization

Sampled: 09/08/06-09/11/06
Received: 09/14/06
Issued: 09/26/06 16:24

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPI1325-01
IPI1325-02

CLIENT ID

AC-WC
S-WC

MATRIX

Soil
Soil

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI1325

Sampled: 09/08/06-09/11/06
 Received: 09/14/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1325-01 (AC-WC - Soil)				Sampled: 09/08/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	44	1	9/22/2006	9/22/2006	
Sample ID: IPI1325-02 (S-WC - Soil)				Sampled: 09/11/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	8.4	1	9/22/2006	9/22/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI1325

Sampled: 09/08/06-09/11/06
 Received: 09/14/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I22147 Extracted: 09/22/06										
Duplicate Analyzed: 09/22/2006 (6I22147-DUP1)										
Percent Moisture	49.5	0.10	%		44			12	20	
					Source: IPI1325-01					

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI1325

Sampled: 09/08/06-09/11/06
Received: 09/14/06

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI1325

Sampled: 09/08/06-09/11/06
Received: 09/14/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

Client Name/Address: **MWH-Pasadena**
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101

Project: **Boeing- NPDES/BMP Media Waste Characterization**

Project Manager: **Bronwyn Kelly**

Phone Number: **(626) 568-6691**
 Fax Number: **(626) 568-6515**

Sampler: **BNA**

Sample Description: **AC-WC** Matrix: **S** Container Type: **S** # of Cont.: **S**

Sampling Date/Time: **9/8/06 15:20** Preservative: **None** Bottle #:

Sampling Date/Time: **9-11-06 10:00**

% Moisture (EPA 160.3) **X**

Field readings: Temp = pH =

Comments: **2A 9/13/06 805**

Relinquished By	Date/Time	Received By	Date/Time	Turn around Time: (check)	Metals Only 72 Hours	Perchlorate Only 72 Hours	Sample Integrity (Check) On Ice:
<i>[Signature]</i>	9-14-06 1500	<i>[Signature]</i>	9-14-06 1500	24 Hours <input type="checkbox"/> 5 Days <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>[Signature]</i>	9-14-06 1815	<i>[Signature]</i>	9-14-06 1815	48 Hours <input type="checkbox"/> 10 Days <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>[Signature]</i>		<i>[Signature]</i>		72 Hours <input type="checkbox"/> Normal <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ANALYSIS REQUIRED

Michele Chamberlin

From: Eric S Tsai [Eric.S.Tsai@us.mwhglobal.com]
Sent: Monday, September 18, 2006 7:35 AM
To: Michele Chamberlin
Cc: Bronwyn K Kelly; Eric Walker; richard.m.banaga@boeing.com
Subject: Re:

Hello Michele,

Sorry about the late response, I was out of the office on Thursday and Friday.

The sample ID is "S-WC" and it should be analyzed for percent moisture.

I apologize for the confusion. Thanks.

Regards,

Eric Tsai

Eric Tsai, EIT
Associate Engineer
MWH, Pasadena
Phone: (626) 568-6277
Fax: (626) 568-6101
Eric.S.Tsai@Mwhglobal.com

"Michele Chamberlin" <mchamberlin@testamericainc.com>

"Michele Chamberlin"
<mchamberlin@testamericainc.com>

09/15/2006 01:39 PM

To "Eric S Tsai"
<Eric.S.Tsai@us.mwhglobal.com>
cc <richard.m.banaga@boeing.com>, "Eric
Walker"
<Eric.Walker@us.mwhglobal.com>,
"Bronwyn K Kelly"
<Bronwyn.K.Kelly@us.mwhglobal.com>

Subject

Hi Eric,

I left you a message on your cell phone this morning and I thought I would follow-up with an email. We picked up two samples for % moisture yesterday and I have a question about the second sample. The box is not marked for analysis, so I wanted to confirm you would like it

9/18/2006

analyzed. Also, the sample ID on the COC is S-WC and the sample ID on the container is S-EFF. Which is the correct sample ID?

Please let me know so that we can process this sample correctly.

Thanks,

Michele

I will be out of the office from Sept 25-Oct 6, returning Oct 9.

Michele Chamberlin

Project Manager

TestAmerica Analytical Testing Corporation

17461 Derian Ave., Suite 100

Irvine, CA 92614

Phone: (949) 261-1022 x215

Fax: (949) 260-3297

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Media Waste Characterization

Sampled: 08/08/06
Received: 08/10/06
Issued: 08/22/06 17:22

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IPH1143-01	S-WC	Soil
IPH1143-02	PM-WC	Soil
IPH1143-03	LC-WC	Soil

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH1143

Sampled: 08/08/06

Received: 08/10/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH1143-01 (S-WC - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6H17182	0.10	19	1	8/17/2006	8/17/2006	
Sample ID: IPH1143-02 (PM-WC - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6H17182	0.10	84	1	8/17/2006	8/17/2006	
Sample ID: IPH1143-03 (LC-WC - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6H17182	0.10	51	1	8/17/2006	8/17/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH1143

Sampled: 08/08/06

Received: 08/10/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H17182 Extracted: 08/17/06										
Blank Analyzed: 08/17/2006 (6H17182-BLK1)										
Percent Moisture	ND	0.10	%							
Duplicate Analyzed: 08/17/2006 (6H17182-DUP1)										
Percent Moisture	19.2	0.10	%		19			1	20	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH1143

Sampled: 08/08/06

Received: 08/10/06

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

IPH1143 <Page 4 of 5>

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPH1143

Sampled: 08/08/06

Received: 08/10/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

Del Mar Analytical CHAIN OF CUSTODY FORM

Version 04/28/06

IPH1143 Page 1 of 1

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing- NPDES/BMP Media Waste Characterization		ANALYSIS REQUIRED												Field readings: Temp = pH=			
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691														Comments			
Sampler: <i>BANAGAN</i>		Fax Number: (626) 568-6515																	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	% Moisture (EPA 160.3)												
S-WC	S	G	1	8-8-06 13:00	None		X												
PM-WC	S	G	1	8-8-06 13:50	None		X												
LC-WC	S	G	1	8-8-06 13:55	None		X												
Relinquished By <i>[Signature]</i> Date/Time: 8-10-06 1550				Received By <i>[Signature]</i> Date/Time: 8-10-06 1550				Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/> X _____											
Relinquished By <i>[Signature]</i> Date/Time: 8-10-06 1950				Received By _____ Date/Time: _____				Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____											
Relinquished By _____ Date/Time: _____				Received By <i>[Signature]</i> Date/Time: 8/10/06 1950				Sample Integrity: (Check) Intact <input checked="" type="checkbox"/> On Ice: _____											

WGA
8/10/06
22:01

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Waste Characterization
Media Waste Characterization

Sampled: 08/14/06
Received: 08/17/06
Issued: 08/28/06 16:45

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IPH2006-01	S-WC	Soil
IPH2006-02	Z-WC	Soil
IPH2006-03	AC-WC	Soil

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH2006

Sampled: 08/14/06
 Received: 08/17/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH2006-01 (S-WC - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6H25114	0.10	18	1	8/25/2006	8/25/2006	
Sample ID: IPH2006-02 (Z-WC - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6H25114	0.10	31	1	8/25/2006	8/25/2006	
Sample ID: IPH2006-03 (AC-WC - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6H25114	0.10	52	1	8/25/2006	8/25/2006	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Waste Characterization
 Media Waste Characterization
 Report Number: IPH2006

Sampled: 08/14/06
 Received: 08/17/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H25114 Extracted: 08/25/06										
Duplicate Analyzed: 08/25/2006 (6H25114-DUP1)										
Percent Moisture	13.4	0.10	%		11			20	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Waste Characterization
Media Waste Characterization
Report Number: IPH2006

Sampled: 08/14/06
Received: 08/17/06

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Waste Characterization
Media Waste Characterization
Report Number: IPH2006

Sampled: 08/14/06
Received: 08/17/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

Del Mar Analytical CHAIN OF CUSTODY FORM

Version 04/28/06

APH 2006

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing- NPDES/BMP Media Waste Characterization		ANALYSIS REQUIRED										Field readings: Temp = pH=				
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691		Preservative		Bottle #												Comments
Sampler: <i>BANAGA</i>		Fax Number: (626) 568-6515		None														
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	% Moisture (EPA 160.3)											
S-WC	S		1	8/14/06 16:30	None		X											
Z-WC	S		1	8/15/06 11:30	None		X											
AC-WC	S		1	8/14/06 17:00	None		X											
Relinquished By: <i>[Signature]</i>		Date/Time: 8-17-06 1530		Received By: <i>[Signature]</i>		Date/Time: 8/17/06 1530												
Relinquished By: <i>[Signature]</i>		Date/Time: 8/17/06 1920		Received By: <i>[Signature]</i>		Date/Time: 8/17/06 1920												
Relinquished By:		Date/Time:		Received By:		Date/Time:												

HE 8-18-06
1715

14

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Media Waste Characterization

Sampled: 08/28/06-08/31/06
Received: 08/31/06
Issued: 09/18/06 16:48

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IPI0015-01	AC-WC	Soil
IPI0015-02	S-WC	Soil
IPI0015-03	Z-WC	Soil

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0015

Sampled: 08/28/06-08/31/06
 Received: 08/31/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0015-01 (AC-WC - Soil)				Sampled: 08/28/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	48	1	9/11/2006	9/11/2006	
Sample ID: IPI0015-02 (S-WC - Soil)				Sampled: 08/31/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	11	1	9/11/2006	9/11/2006	
Sample ID: IPI0015-03 (Z-WC - Soil)				Sampled: 08/31/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	33	1	9/11/2006	9/11/2006	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0015

Sampled: 08/28/06-08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I11099 Extracted: 09/11/06										
Duplicate Analyzed: 09/11/2006 (6I11099-DUP1)										
Percent Moisture	81.8	0.10	%		82			0	20	
					Source: IPI0010-01					

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0015

Sampled: 08/28/06-08/31/06
Received: 08/31/06

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0015

Sampled: 08/28/06-08/31/06
Received: 08/31/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

BAG FILTER MOISTURE CONTENT DATA

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Media Waste Characterization

Sampled: 09/12/06-09/13/06
Received: 09/14/06
Issued: 09/26/06 16:43

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IPI1326-01	BF-1B	Soil
IPI1326-02	BF-2B	Soil
IPI1326-03	BF-1	Soil
IPI1326-04	BF-2	Soil

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI1326

Sampled: 09/12/06-09/13/06
 Received: 09/14/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1326-01 (BF-1B - Soil)				Sampled: 09/12/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	71	1	9/22/2006	9/22/2006	
Sample ID: IPI1326-02 (BF-2B - Soil)				Sampled: 09/12/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	74	1	9/22/2006	9/22/2006	
Sample ID: IPI1326-03 (BF-1 - Soil)				Sampled: 09/13/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	78	1	9/22/2006	9/22/2006	
Sample ID: IPI1326-04 (BF-2 - Soil)				Sampled: 09/13/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	76	1	9/22/2006	9/22/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI1326

Sampled: 09/12/06-09/13/06
 Received: 09/14/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I22147 Extracted: 09/22/06										
Duplicate Analyzed: 09/22/2006 (6I22147-DUP1)										
Percent Moisture	49.5	0.10	%		44			12	20	
					Source: IPI1325-01					

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI1326

Sampled: 09/12/06-09/13/06
Received: 09/14/06

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI1326

Sampled: 09/12/06-09/13/06
Received: 09/14/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

TestAmerica

ANALYTICAL TESTING CORPORATION

August 21, 2006

MWH-Pasadena
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101

Attention: Bronwyn Kelly

Project: Media Waste Characterization
Sampled: 07/28/06 & 08/01/06 & 08/03/06
TestAmerica Number: IPH0425

Dear Ms. Kelly:

PTS Laboratories, Inc. performed the ASTM D 2216 analysis for the project referenced above. Please use the following cross-reference table when reviewing your results.

MWH ID	TestAmerica ID	PTS ID
BF-2 (1)	IPH0425-01	36621-01
BF-2 (2)	IPH0425-02	36621-02
BF-2 (3)	IPH0425-03	36621-03

If you have any questions or require further assistance, please do not hesitate to contact me at (949) 261-1022, extension 215.

Sincerely yours,

TESTAMERICA



Michele Chamberlin
Project Manager

Enclosure



MOISTURE CONTENT
(METHODOLOGY: ASTM D 2216)

PROJECT NAME: N/A
PROJECT NO: IPH0425

SAMPLE ID.	DEPTH, ft.	WEIGHT OF TARE, grams	WET SAMPLE PLUS TARE WEIGHT, grams	DRY SAMPLE PLUS TARE WEIGHT, grams	WET SAMPLE WEIGHT, grams	DRY SAMPLE WEIGHT, grams	MOISTURE CONTENT, percent wet weight	MOISTURE CONTENT, percent dry weight
IPH0425-01	N/A	22.50	1749.70	537.95	1727.20	515.45	70.16	235.09
IPH0425-02	N/A	24.49	1699.10	427.44	1674.61	402.95	75.94	315.59
IPH0425-03	N/A	24.15	1575.50	368.76	1551.35	344.61	77.79	350.18

36621

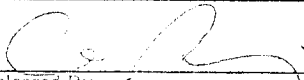

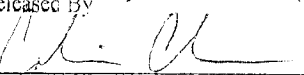
SUBCONTRACT ORDER - PROJECT # IPH0425

SENDING LABORATORY:	RECEIVING LABORATORY:
TestAmerica - Irvine, CA 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 260-3297 Project Manager Michele Chamberlin	PTS Labs-SUB 8100 Secura Way Santa Fe Springs, CA 90670 Phone : (562) 907-3607 Fax: (562) 907-3610

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
✓ Sample ID: IPH0425-01 Solid Moisture Content-Out	Expired: 08/25/06 08:00 Sampled: 07/28/06 08:00	Report dry weight and wet weight sub to PTS
Containers Supplied: Plastic Bag (IPH0425-01A)		
✓ Sample ID: IPH0425-02 Solid Moisture Content-Out	Expired: 08/29/06 07:30 Sampled: 08/01/06 07:30	Report dry weight and wet weight sub to PTS
Containers Supplied: Plastic Bag (IPH0425-02A)		
✓ Sample ID: IPH0425-03 Solid Moisture Content-Out	Expired: 08/31/06 14:05 Sampled: 08/03/06 14:05	Report dry weight and wet weight sub to PTS
Containers Supplied: Plastic Bag (IPH0425-03A)		

SAMPLE INTEGRITY:					
All containers intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Sample labels/COC agree:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received On Ice::	<input type="checkbox"/> Yes <input type="checkbox"/> No
Custody Seal Present::	<input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Preserved Properly:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received at (temp):	_____

	8-4-06	1000		8-4-06	1000
Released By	Date	Time	Received By	Date	Time
	8-4-06	1300	PTS	8/4/06	13:09
Released By	Date	Time	Received By	Date	Time

August 21, 2006

MWH-Pasadena
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101

Attention: Bronwyn Kelly

Project: Media Waste Characterization
Sampled: 07/28/06 & 08/01/06
TestAmerica Number: IPH0427

Dear Ms. Kelly:

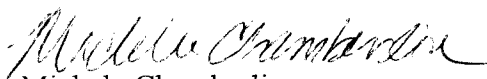
PTS Laboratories, Inc. performed the ASTM D 2216 analysis for the project referenced above. Please use the following cross-reference table when reviewing your results.

MWH ID	TestAmerica ID	PTS ID
BF-1 (1)	IPH0427-01	36622-01
BF-1 (2)	IPH0427-02	36622-02

If you have any questions or require further assistance, please do not hesitate to contact me at (949) 261-1022, extension 215.

Sincerely yours,

TESTAMERICA



Michele Chamberlin
Project Manager

Enclosure



MOISTURE CONTENT
(METHODOLOGY: ASTM D 2216)

PROJECT NAME: N/A
PROJECT NO: IPH0427

SAMPLE ID.	DEPTH, ft.	WEIGHT OF TARE, grams	WET SAMPLE PLUS TARE WEIGHT, grams	DRY SAMPLE PLUS TARE WEIGHT, grams	WET SAMPLE WEIGHT, grams	DRY SAMPLE WEIGHT, grams	MOISTURE CONTENT, percent wet weight	MOISTURE CONTENT, percent dry weight
IPH0427-01	N/A	18.21	1567.50	433.78	1549.29	415.57	73.18	272.81
IPH0427-02	N/A	20.95	1600.50	407.46	1579.55	386.51	75.53	308.67

36622

SUBCONTRACT ORDER - PROJECT # IPH0427

SENDING LABORATORY:	RECEIVING LABORATORY:
TestAmerica - Irvine, CA 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 260-3297 Project Manager Michele Chamberlin	PTS Labs-SUB 8100 Secura Way Santa Fe Springs, CA 90670 Phone : (562) 907-3607 Fax: (562) 907-3610

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
----------	------------	----------

✓ Sample ID: IPH0427-01	Solid	Sampled: 07/28/06 08:00	Report dry weight and wet weight
Moisture Content-Out	08/25/06 08:00		sub to PTS

Containers Supplied:
Plastic Bag (IPH0427-01A)

✓ Sample ID: IPH0427-02	Solid	Sampled: 08/01/06 07:30	Report dry weight and wet weight
Moisture Content-Out	08/29/06 07:30		sub to PTS

Containers Supplied:
Plastic Bag (IPH0427-02A)

SAMPLE INTEGRITY:

All containers intact: Yes No
 Sample labels/COC agree: Yes No
 Samples Received On Ice: Yes No
 Custody Seals Present: Yes No
 Samples Preserved Properly: Yes No
 Samples Received at (temp): _____

Released By: <i>[Signature]</i>	8-4-06	1000	Received By: <i>[Signature]</i>	8-4-06	1000
	Date	Time		Date	Time
Released By: <i>[Signature]</i>	8-4-06	13:00	Received By: <i>[Signature]</i>	8/4/06	13:09
	Date	Time		Date	Time

19771144

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing- NPDES/BMP Media Waste Characterization		ANALYSIS REQUIRED												Field readings: Temp = pH =					
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		% Moisture (EPA 160.3)												Report Dry weight and Wet weight					
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Comments														
BF-I	S			8/10/06 06:10 13:45	None		X														
Relinquished By <i>[Signature]</i>	8-10-06	Date/Time: 1550	Received By <i>[Signature]</i>	8-10-06	Date/Time: 1950	Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____ X _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____															
Relinquished By <i>[Signature]</i>	8-10-06	Date/Time: 1950	Received By <i>[Signature]</i>	8/10/06	Date/Time: 1950	Sample Integrity: (Check) Intact _____ On Ice: _____															

[Handwritten notes]
8/10/06
21:50
OK

TestAmerica

ANALYTICAL TESTING CORPORATION

September 6, 2006

MWH
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101

Attention: Bronwyn Kelly

Project: Media Waste Characterization
Sampled: 08/08/06
TestAmerica Number: IPH1144

Dear Ms. Kelly:


PTS Laboratories performed the Methodology ASTM D 2216 analysis for the project referenced above. Please use the following cross-reference table when reviewing your results.

MWH ID	TestAmerica ID	PTS ID
BF-I	IPH1144-01	36658

If you have any questions or require further assistance, please do not hesitate to contact me at (949) 261-1022, extension 215.

Sincerely yours,

TestAmerica


Michele Chamberlin
Project Manager

Enclosure



MOISTURE CONTENT
(METHODOLOGY: ASTM D 2216)

PROJECT NAME: N/A
PROJECT NO: IPH1144

SAMPLE ID.	DEPTH, ft.	WEIGHT OF TARE, grams	WET SAMPLE PLUS TARE WEIGHT, grams	DRY SAMPLE PLUS TARE WEIGHT, grams	WET SAMPLE WEIGHT, grams	DRY SAMPLE WEIGHT, grams	MOISTURE CONTENT, percent wet weight	MOISTURE CONTENT, percent dry weight
IPH1144-01	N/A	26.19	1656.20	410.40	1630.01	384.21	76.43	324.25

36658

SUBCONTRACT ORDER - PROJECT # IPH1144

SENDING LABORATORY:	RECEIVING LABORATORY:
TestAmerica - Irvine, CA 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 260-3297 Project Manager: Michele Chamberlin	PTS Labs-SUB 8100 Secura Way Santa Fe Springs, CA 90670 Phone: (562) 907-3607 Fax: (562) 907-3610

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____




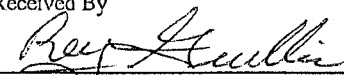
Analysis	Expiration	Comments
----------	------------	----------

Sample ID: IPH1144-01 Soil	Sampled: 08/08/06 06:10	
Moisture Content-Out	09/05/06 06:10	sub to PTS

Containers Supplied:
 Plastic Bag (IPH1144-01A)

SAMPLE INTEGRITY:

All containers intact: Yes No
 Sample labels/COC agree: Yes No
 Samples Received On Ice: Yes No
 Custody Seals Present: Yes No
 Samples Preserved Properly: Yes No
 Samples Received at (temp): _____

	8-11-06	9:30		8-11-06	9:30
Released By	Date	Time	Received By	Date	Time
	8-11-06	11:40		8-11-06	11:40
Released By	Date	Time	Received By	Date	Time

TestAmerica

ANALYTICAL TESTING CORPORATION

September 6, 2006

MWH
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101

Attention: Bronwyn Kelly

Project: Media Waste Characterization
Sampled: 08/15/06
TestAmerica Number: IPH1978

Dear Ms. Kelly:


PTS Laboratories performed the Methodology ASTM D 2216 analysis for the project referenced above. Please use the following cross-reference table when reviewing your results.

MWH ID	TestAmerica ID	PTS ID
BF-1	IPH1978-01	36687-01
BF-2	IPH1978-02	36687-02

If you have any questions or require further assistance, please do not hesitate to contact me at (949) 261-1022, extension 215.

Sincerely yours,

TestAmerica


Michele Chamberlin
Project Manager

Enclosure



MOISTURE CONTENT
(METHODOLOGY: ASTM D 2216)

PROJECT NAME: N/A
PROJECT NO: IPH1978

SAMPLE ID.	DEPTH, ft.	WEIGHT OF TARE, grams	WET SAMPLE PLUS TARE WEIGHT, grams	DRY SAMPLE PLUS TARE WEIGHT, grams	WET SAMPLE WEIGHT, grams	DRY SAMPLE WEIGHT, grams	MOISTURE CONTENT, percent wet weight	MOISTURE CONTENT, percent dry weight
IPH1978-01	N/A	16.75	1274.50	382.50	1257.75	365.75	70.92	243.88
IPH1978-02	N/A	16.20	1429.30	468.00	1413.10	451.80	68.03	212.77

SUBCONTRACT ORDER - PROJECT # IPH1978

SENDING LABORATORY:
 TestAmerica - Irvine, CA
 17461 Derian Avenue, Suite 100
 Irvine, CA 92614
 Phone: (949) 261-1022
 Fax: (949) 260-3297
 Project Manager: Michele Chamberlin

RECEIVING LABORATORY:
 PTS Labs-SUB
 8100 Secura Way
 Santa Fe Springs, CA 90670
 Phone : (562) 907-3607
 Fax: (562) 907-3610

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
✓ Sample ID: IPH1978-01 Solid Moisture Content-Out	Expired: 09/12/06 12:28 Sampled: 08/15/06 12:28	Report dry weight and wet weight sub to PTS
Containers Supplied: Plastic Bag (IPH1978-01A)		
✓ Sample ID: IPH1978-02 Solid Moisture Content-Out	Expired: 09/12/06 12:28 Sampled: 08/15/06 12:28	Report dry weight and wet weight sub to PTS
Containers Supplied: Plastic Bag (IPH1978-02A)		

SAMPLE INTEGRITY:

All containers intact: Yes No
 Custody Seals Present: Yes No
 Sample labels/COC agree: Yes No
 Samples Preserved Properly: Yes No
 Samples Received On Ice: Yes No
 Samples Received at (temp): _____

Released By: *[Signature]* Date: 8/21/06 Time: 0830
 Received By: *[Signature]* Date: 8/21/06 Time: 0830
 Released By: *[Signature]* Date: 8/21/06 Time: 0955
 Received By: *[Signature]* Date: 8/21/06 Time: 1000

TestAmerica

ANALYTICAL TESTING CORPORATION

September 21, 2006

MWH
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101

Attention: Bronwyn Kelly

Project: Media Waste Characterization
Sampled: 08/18/06
TestAmerica Number: IPH2736

Dear Ms. Kelly:

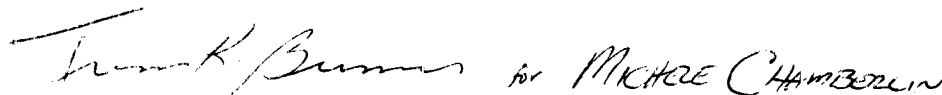
PTS Laboratories performed the ASTM D 2216 analysis for the project referenced above. Please use the following cross-reference table when reviewing your results.

MWH ID	TestAmerica ID	PTS ID
BF-1	IPH2736-01	36715-01
BF-2	IPH2736-02	36715-02
BF-1	IPH2736-03	36715-03
BF-1	IPH2736-04	36715-04
BF-2	IPH2736-05	36715-05

If you have any questions or require further assistance, please do not hesitate to contact me at (949) 261-1022, extension 215.

Sincerely yours,

TestAmerica

 for MICHELE CHAMBERLIN

Michele Chamberlin
Project Manager

Enclosure



September 18, 2006

Ms. Michele Chamberlin
Test America
17461 Derian Ave.
Irvine, CA 92614

Re: IPH2736
File: 36715

Dear Ms. Chamberlin:

Enclosed are final data for samples submitted from your Project # IPH2736. Electronic versions of the data have been previously sent to your attention. All analyses were performed by applicable ASTM, EPA or API methodology. The samples are currently in storage and will be held for thirty days before disposal.

We appreciate the opportunity to be of service and trust these data will prove beneficial in the development of this project. Please call me at (562) 907-3607 with any questions or if you require additional information.

Sincerely,
PTS Laboratories, Inc.



Larry Kunkel
District Manager

LAK vk

Encl

MOISTURE CONTENT
(METHODOLOGY: ASTM D 2216)

PROJECT NAME: N/A
PROJECT NO: IPH2736

SAMPLE ID.	DEPTH, ft.	WEIGHT OF TARE, grams	WET SAMPLE PLUS TARE WEIGHT, grams	DRY SAMPLE PLUS TARE WEIGHT, grams	WET SAMPLE WEIGHT, grams	DRY SAMPLE WEIGHT, grams	MOISTURE CONTENT, percent wet weight	MOISTURE CONTENT, percent dry weight
IPH2736-01	N/A	15.93	770.40	318.49	754.47	302.56	59.90	149.36
IPH2736-02	N/A	16.06	1176.40	374.38	1160.34	358.32	69.12	223.83
IPH2736-03	N/A	14.78	901.40	217.10	886.62	202.32	77.18	338.23
IPH2736-04	N/A	14.88	974.40	220.89	959.52	206.01	78.53	365.76
IPH2736-05	N/A	14.83	1235.00	299.51	1220.17	284.68	76.67	328.61

36715

SUBCONTRACT ORDER - PROJECT # IPH2736

SENDING LABORATORY:	RECEIVING LABORATORY:
TestAmerica - Irvine, CA 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 260-3297 Project Manager: Michele Chamberlin	PTS Labs-SUB 8100 Secura Way Santa Fe Springs, CA 90670 Phone : (562) 907-3607 Fax: (562) 907-3610

Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IPH2736-01 / Soil Moisture Content-Out	Expired: 08/18/06 10:27 Sampled: 08/18/06 10:27 09/15/06 10:27	sub to PTS
Containers Supplied: Plastic Bag (IPH2736-01A)		
Sample ID: IPH2736-02 / Soil Moisture Content-Out	Expired: 08/18/06 10:27 Sampled: 08/18/06 10:27 09/15/06 10:27	sub to PTS
Containers Supplied: Plastic Bag (IPH2736-02A)		
Sample ID: IPH2736-03 / Soil Moisture Content-Out	Expired: 08/18/06 14:50 Sampled: 08/18/06 14:50 09/15/06 14:50	sub to PTS
Containers Supplied: Plastic Bag (IPH2736-03A)		
Sample ID: IPH2736-04 / Soil Moisture Content-Out	Expired: 08/21/06 16:15 Sampled: 08/21/06 16:15 09/18/06 16:15	sub to PTS
Containers Supplied: Plastic Bag (IPH2736-04A)		
Sample ID: IPH2736-05 / Soil Moisture Content-Out	Expired: 08/24/06 16:35 Sampled: 08/24/06 16:35 09/21/06 16:35	sub to PTS
Containers Supplied: Plastic Bag (IPH2736-05A)		

SAMPLE INTEGRITY:					
All containers intact:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Sample labels/COC agree:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Custody Seals Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Samples Preserved Properly:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
			Samples Received On Ice::	<input type="checkbox"/> Yes	<input type="checkbox"/> No
			Samples Received at (temp):	_____	

Released By: <i>[Signature]</i>	Date: 8/28/06	Time: 0840	Received By: <i>[Signature]</i>	Date: 8/28/06	Time: 0840
Released By: <i>[Signature]</i>	Date: 8/28/06	Time: 1135	Received By: <i>[Signature]</i>	Date: 8-28-06	Time: 11:35

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Media Waste Characterization

Sampled: 08/24/06-08/30/06
Received: 08/31/06
Issued: 09/18/06 16:51

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IPI0010-01	BF-1 (8/24/06)	Soil
IPI0010-02	BF-1 (8/25/06)	Soil
IPI0010-03	BF-1 (8/26/06)	Soil
IPI0010-04	BF-1 (8/27/06)	Soil
IPI0010-05	BF-1A (8/28/06)	Soil
IPI0010-06	BF-1B (8/28/06)	Soil
IPI0010-07	BF-2 (8/29/06)	Soil
IPI0010-08	BF-1A (8/29/06)	Soil
IPI0010-09	BF-1B (8/29/06)	Soil
IPI0010-10	BF-2A (8/30/06)	Soil
IPI0010-11	BF-1 (8/30/06)	Soil
IPI0010-12	BF-2B (8/30/06)	Soil

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0010

Sampled: 08/24/06-08/30/06
 Received: 08/31/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0010-01 (BF-1 (8/24/06) - Soil)				Sampled: 08/24/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	82	1	9/11/2006	9/11/2006	
Sample ID: IPI0010-02 (BF-1 (8/25/06) - Soil)				Sampled: 08/25/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	83	1	9/11/2006	9/11/2006	
Sample ID: IPI0010-03 (BF-1 (8/26/06) - Soil)				Sampled: 08/26/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	82	1	9/11/2006	9/11/2006	
Sample ID: IPI0010-04 (BF-1 (8/27/06) - Soil)				Sampled: 08/27/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	83	1	9/11/2006	9/11/2006	
Sample ID: IPI0010-05 (BF-1A (8/28/06) - Soil)				Sampled: 08/28/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	81	1	9/11/2006	9/11/2006	
Sample ID: IPI0010-06 (BF-1B (8/28/06) - Soil)				Sampled: 08/28/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	80	1	9/11/2006	9/11/2006	
Sample ID: IPI0010-07 (BF-2 (8/29/06) - Soil)				Sampled: 08/29/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	79	1	9/11/2006	9/11/2006	
Sample ID: IPI0010-08 (BF-1A (8/29/06) - Soil)				Sampled: 08/29/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	80	1	9/11/2006	9/11/2006	
Sample ID: IPI0010-09 (BF-1B (8/29/06) - Soil)				Sampled: 08/29/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	80	1	9/11/2006	9/11/2006	
Sample ID: IPI0010-10 (BF-2A (8/30/06) - Soil)				Sampled: 08/30/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	82	1	9/11/2006	9/11/2006	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0010

Sampled: 08/24/06-08/30/06

Received: 08/31/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0010-11 (BF-1 (8/30/06) - Soil)				Sampled: 08/30/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	80	1	9/11/2006	9/11/2006	
Sample ID: IPI0010-12 (BF-2B (8/30/06) - Soil)				Sampled: 08/30/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	79	1	9/11/2006	9/11/2006	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0010

Sampled: 08/24/06-08/30/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I11099 Extracted: 09/11/06										
Duplicate Analyzed: 09/11/2006 (6I11099-DUP1)					Source: IPI0010-01					
Percent Moisture	81.8	0.10	%		82			0	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0010

Sampled: 08/24/06-08/30/06
Received: 08/31/06

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0010

Sampled: 08/24/06-08/30/06
Received: 08/31/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Media Waste Characterization

Sampled: 08/31/06-09/04/06
Received: 09/06/06
Issued: 09/19/06 13:58

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IPI0453-01	BF-1B	Soil
IPI0453-02	BF-2B	Soil
IPI0453-03	BF-1A	Soil
IPI0453-04	BF-2A	Soil
IPI0453-05	BF-1B	Soil
IPI0453-06	BF-2B	Soil
IPI0453-07	BF-1 (09/02/06)	Soil
IPI0453-08	BF-2 (09/02/06)	Soil
IPI0453-09	BF-1 (09/03/06)	Soil
IPI0453-10	BF-2 (09/03/06)	Soil
IPI0453-11	BF-1 (09/04/06)	Soil
IPI0453-12	BF-2 (09/04/06)	Soil

Reviewed By:

TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0453

Sampled: 08/31/06-09/04/06
Received: 09/06/06

Analyte	Method	Batch	Units	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0453-01 (BF-1B - Soil)									
INORGANICS									
Percent Moisture	EPA 160.3	6I14136	%	0.10	78	1	9/14/2006	9/14/2006	
Sample ID: IPI0453-02 (BF-2B - Soil)									
INORGANICS									
Percent Moisture	EPA 160.3	6I14136	%	0.10	82	1	9/14/2006	9/14/2006	
Sample ID: IPI0453-03 (BF-1A - Soil)									
INORGANICS									
Percent Moisture	EPA 160.3	6I14136	%	0.10	79	1	9/14/2006	9/14/2006	
Sample ID: IPI0453-04 (BF-2A - Soil)									
INORGANICS									
Percent Moisture	EPA 160.3	6I14136	%	0.10	80	1	9/14/2006	9/14/2006	
Sample ID: IPI0453-05 (BF-1B - Soil)									
INORGANICS									
Percent Moisture	EPA 160.3	6I14136	%	0.10	76	1	9/14/2006	9/14/2006	
Sample ID: IPI0453-06 (BF-2B - Soil)									
INORGANICS									
Percent Moisture	EPA 160.3	6I14136	%	0.10	80	1	9/14/2006	9/14/2006	
Sample ID: IPI0453-07 (BF-1 (09/02/06) - Soil)									
INORGANICS									
Percent Moisture	EPA 160.3	6I14136	%	0.10	79	1	9/14/2006	9/14/2006	
Sample ID: IPI0453-08 (BF-2 (09/02/06) - Soil)									
INORGANICS									
Percent Moisture	EPA 160.3	6I14136	%	0.10	78	1	9/14/2006	9/14/2006	
Sample ID: IPI0453-09 (BF-1 (09/03/06) - Soil)									
INORGANICS									
Percent Moisture	EPA 160.3	6I14136	%	0.10	76	1	9/14/2006	9/14/2006	
Sample ID: IPI0453-10 (BF-2 (09/03/06) - Soil)									
INORGANICS									
Percent Moisture	EPA 160.3	6I14136	%	0.10	78	1	9/14/2006	9/14/2006	
Sample ID: IPI0453-11 (BF-1 (09/04/06) - Soil)									
INORGANICS									
Percent Moisture	EPA 160.3	6I14136	%	0.10	75	1	9/14/2006	9/14/2006	
Sample ID: IPI0453-12 (BF-2 (09/04/06) - Soil)									
INORGANICS									
Percent Moisture	EPA 160.3	6I14136	%	0.10	79	1	9/14/2006	9/14/2006	

TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0453

Sampled: 08/31/06-09/04/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I14136 Extracted: 09/14/06										
Duplicate Analyzed: 09/14/2006 (6I14136-DUP1)										
Percent Moisture	78.8	0.10	%		78			1	20	
					Source: IPI0453-01					

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0453

Sampled: 08/31/06-09/04/06
Received: 09/06/06

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0453

Sampled: 08/31/06-09/04/06
Received: 09/06/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Soil		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

CHAIN OF CUSTODY FORM

Client Name/Address:		Project:		ANALYSIS REQUIRED										Field readings:				
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Boeing- NPDES/BMP Media Waste Characterization												Temp =				
Project Manager: Bronwyn Kelly Sampler: Eric Tsa		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515												pH=				
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #											Comments	
BF-1B	S			8/31/06 14:40	None		X											See jars
BF-2B	S			9/1/06 14:40	None		X											
BF-1A	S			9/1/06 09:30	None		X											
BF-2A	S			9/1/06 09:30	None		X											
BF-1B	S			9/1/06 14:30	None		X											
BF-2B	S			9/1/06 14:30	None		X											
BF-1	S			9/2/06 06:30	None		X											
BF-2	S			9/2/06 06:30	None		X											
BF-1	S			9/2/06 06:40	None		X											Z-A 9/1/06
BF-2	S			9/2/06 06:40	None		X											8:40
BF-1	S			9/4/06 06:45	None		X											
BF-2	S			9/4/06 06:45	None		X											
Relinquished By				Date/Time: 9/5-06	Received By		Date/Time: 9/6/06 1400											Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____ X _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____
Relinquished By				Date/Time: 9/5-06	Received By		Date/Time: 9-6-06 1645											Sample Integrity: (Check) Intact _____ X _____ On Ice: _____ X _____
Relinquished By				Date/Time: 9/5/06 1645	Received By		Date/Time:											

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Media Waste Characterization

Sampled: 08/31/06
Received: 08/31/06
Issued: 09/18/06 16:45

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPI0016-01
IPI0016-02

CLIENT ID

BF-1
BF-2

MATRIX

Soil
Soil

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0016

Sampled: 08/31/06

Received: 08/31/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0016-01 (BF-1 - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	79	1	9/11/2006	9/11/2006	
Sample ID: IPI0016-02 (BF-2 - Soil)								
Reporting Units: %								
Percent Moisture	EPA 160.3	6111099	0.10	80	1	9/11/2006	9/11/2006	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0016

Sampled: 08/31/06

Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I11099 Extracted: 09/11/06										
Duplicate Analyzed: 09/11/2006 (6I11099-DUP1)										
Percent Moisture	81.8	0.10	%		82			0	20	
					Source: IPI0010-01					

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0016

Sampled: 08/31/06

Received: 08/31/06

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0016

Sampled: 08/31/06

Received: 08/31/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

Del Mar Analytical Version 04/28/06 CHAIN OF CUSTODY FORM

Client Name/Address:		Project:			ANALYSIS REQUIRED										Field readings:						
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Boeing- NPDES/BMP Media Waste Characterization													Temp =						
Project Manager: Bronwyn Kelly Sampler: <i>E. C. T. S. Co.</i>		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515													pH=						
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	% Moisture (EPA 160.3)											Comments			
BF-1	S	BZ		8/31/06 0900	None		X											SPIO016			
BF-2	S			8/31/06 0900	None		X														
BF	S				None		X											137			
BF	S				None		x											971			
BF	S				None		X											1415			
Relinquished By		Date/Time:		Received By		Date/Time:		Turn around Time: (check)													
<i>[Signature]</i>		8/31/06		<i>[Signature]</i>		8:500 1503		24 Hours _____												5 Days _____	
Relinquished By		Date/Time:		Received By		Date/Time:		48 Hours _____												10 Days _____	
<i>[Signature]</i>		8/31/06		<i>[Signature]</i>		8/31/06 1935		72 Hours _____												Normal _____ X	
Relinquished By		Date/Time:		Received By		Date/Time:		Perchlorate Only 72 Hours _____												Metals Only 72 Hours _____	
<i>[Signature]</i>		8/31/06		<i>[Signature]</i>		8/31/06		Sample Integrity: (Check)												Intact <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/>	

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Media Waste Characterization

Sampled: 09/05/06-09/06/06
Received: 09/06/06
Issued: 09/19/06 13:51

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IPI0456-01	BF-1A (09/05/06)	Soil
IPI0456-02	BF-2A (09/05/06)	Soil
IPI0456-03	BF-1B	Soil
IPI0456-04	BF-2B	Soil
IPI0456-05	BF-1A (09/06/06)	Soil
IPI0456-06	BF-2A (09/06/06)	Soil

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0456

Sampled: 09/05/06-09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0456-01 (BF-1A (09/05/06) - Soil)				Sampled: 09/05/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6114136	0.10	1.6	1	9/14/2006	9/14/2006	
Sample ID: IPI0456-02 (BF-2A (09/05/06) - Soil)				Sampled: 09/05/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6114136	0.10	3.8	1	9/14/2006	9/14/2006	
Sample ID: IPI0456-03 (BF-1B - Soil)				Sampled: 09/05/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6114136	0.10	79	1	9/14/2006	9/14/2006	
Sample ID: IPI0456-04 (BF-2B - Soil)				Sampled: 09/05/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6114136	0.10	74	1	9/14/2006	9/14/2006	
Sample ID: IPI0456-05 (BF-1A (09/06/06) - Soil)				Sampled: 09/06/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6114136	0.10	74	1	9/14/2006	9/14/2006	
Sample ID: IPI0456-06 (BF-2A (09/06/06) - Soil)				Sampled: 09/06/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6114136	0.10	75	1	9/14/2006	9/14/2006	

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0456

Sampled: 09/05/06-09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I14136 Extracted: 09/14/06										
Duplicate Analyzed: 09/14/2006 (6I14136-DUP1)										
Percent Moisture	78.8	0.10	%		78			1	20	
					Source: IPI0453-01					

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0456

Sampled: 09/05/06-09/06/06
Received: 09/06/06

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI0456

Sampled: 09/05/06-09/06/06
Received: 09/06/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Soil		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

CHAIN OF CUSTODY FORM

IP10456

Client Name/Address:		Project:		ANALYSIS REQUIRED										Field readings:					
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Boeing- NPDES/BMP Media Waste Characterization												Temp = _____ pH = _____					
Project Manager: Bronwyn Kelly Sampler: <i>Eric Tsai</i>		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515												Comments					
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	% Moisture (EPA 160.3)										Temp	pH	
BF-1A	S			9/5/06 07:20	None		X												
BF-2A	S			9/5/06 07:20	None		X												
BF-1B	S			9/5/06 14:20	None		X												
BF-2B	S			9/5/06 14:30	None		X												
BF-1A	S			9/6/06 08:13	None		X												
BF-2A	S			9/6/06 08:13	None		X												
BF	S				None		X												
BF	S				None		X												
BF	S				None		X												
BF	S				None		X												
BF	S				None		X												
BF	S				None		X												
Relinquished By	<i>[Signature]</i>	Date/Time	9-6-06 1645	Received By	<i>[Signature]</i>	Date/Time	9/8/06 1400											Turn around Time: (check)	
Relinquished By	<i>[Signature]</i>	Date/Time	9-6-06 1645	Received By	<i>[Signature]</i>	Date/Time	9-6-06 1645											24 Hours	5 Days
Relinquished By	<i>[Signature]</i>	Date/Time	9/6/06 1645	Received By	<i>[Signature]</i>	Date/Time												48 Hours	10 Days
				Received By		Date/Time												72 Hours	Normal
																		Perchlorate Only 72 Hours	
																		Metals Only 72 Hours	
																		Sample Integrity: (Check)	On Ice: X
																		Intact	5°C

2A 9/6/06
9-10-06

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Media Waste Characterization

Sampled: 09/08/06-09/12/06
Received: 09/14/06
Issued: 09/26/06 16:28

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IPI1327-01	BF-1 (09/08/06)	Soil
IPI1327-02	BF-2 (09/08/06)	Soil
IPI1327-03	BF-1 (09/09/06)	Soil
IPI1327-04	BF-2 (09/09/06)	Soil
IPI1327-05	BF-1 (09/10/06)	Soil
IPI1327-06	BF-2 (09/10/06)	Soil
IPI1327-07	BF-1A (09/11/06)	Soil
IPI1327-08	BF-2A (09/11/06)	Soil
IPI1327-09	BF-1B (09/11/06)	Soil
IPI1327-10	BF-2B (09/11/06)	Soil
IPI1327-11	BF-1A (09/12/06)	Soil
IPI1327-12	BF-2A (09/12/06)	Soil

Reviewed By:



TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI1327

Sampled: 09/08/06-09/12/06
 Received: 09/14/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1327-01 (BF-1 (09/08/06) - Soil)				Sampled: 09/08/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	53	1	9/22/2006	9/22/2006	
Sample ID: IPI1327-02 (BF-2 (09/08/06) - Soil)				Sampled: 09/08/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	52	1	9/22/2006	9/22/2006	
Sample ID: IPI1327-03 (BF-1 (09/09/06) - Soil)				Sampled: 09/09/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	78	1	9/22/2006	9/22/2006	
Sample ID: IPI1327-04 (BF-2 (09/09/06) - Soil)				Sampled: 09/09/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	76	1	9/22/2006	9/22/2006	
Sample ID: IPI1327-05 (BF-1 (09/10/06) - Soil)				Sampled: 09/10/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	75	1	9/22/2006	9/22/2006	
Sample ID: IPI1327-06 (BF-2 (09/10/06) - Soil)				Sampled: 09/10/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	78	1	9/22/2006	9/22/2006	
Sample ID: IPI1327-07 (BF-1A (09/11/06) - Soil)				Sampled: 09/11/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	75	1	9/22/2006	9/22/2006	
Sample ID: IPI1327-08 (BF-2A (09/11/06) - Soil)				Sampled: 09/11/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	76	1	9/22/2006	9/22/2006	
Sample ID: IPI1327-09 (BF-1B (09/11/06) - Soil)				Sampled: 09/11/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	74	1	9/22/2006	9/22/2006	
Sample ID: IPI1327-10 (BF-2B (09/11/06) - Soil)				Sampled: 09/11/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	75	1	9/22/2006	9/22/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI1327

Sampled: 09/08/06-09/12/06
 Received: 09/14/06

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1327-11 (BF-1A (09/12/06) - Soil)				Sampled: 09/12/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	78	1	9/22/2006	9/22/2006	
Sample ID: IPI1327-12 (BF-2A (09/12/06) - Soil)				Sampled: 09/12/06				
Reporting Units: %								
Percent Moisture	EPA 160.3	6122147	0.10	78	1	9/22/2006	9/22/2006	

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI1327

Sampled: 09/08/06-09/12/06
 Received: 09/14/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I22147 Extracted: 09/22/06										
Duplicate Analyzed: 09/22/2006 (6I22147-DUP1)										
Percent Moisture	49.5	0.10	%		44			12	20	
					Source: IPI1325-01					

TestAmerica - Irvine, CA
 Lisa Reightley For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI1327

Sampled: 09/08/06-09/12/06
Received: 09/14/06

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Media Waste Characterization

Report Number: IPI1327

Sampled: 09/08/06-09/12/06
Received: 09/14/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.3	Solid		

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
Lisa Reightley For Michele Chamberlin
Project Manager

1211327

Client Name/Address:		Project:		ANALYSIS REQUIRED		Field readings:	
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Boeing- NPDES/BMP Media Waste Characterization				Temp = _____ pH = _____	
Project Manager: Bronwyn Kelly		Phone Number:				Comments	
Sampler: <i>Bronwyn Kelly</i>		(626) 568-6691 Fax Number: (626) 568-6515					
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	% Moisture (EPA 160.3)
BF- 1	S			9/8/06 04:20	None		X
BF- 2	S			9/8/06 04:20	None		X
BF- 1	S			9/9/06 09:50	None		X
BF- 2	S			9/9/06 09:50	None		X
BF- 1	S			9/10/06 08:30	None		X
BF- 2	S			9/10/06 08:30	None		X
BF- 1A	S			9/11/06 09:20	None		X
BF- 2A	S			9/11/06 09:20	None		X
BF- 1B	S			9/11/06 14:30	None		X
BF- 2B	S			9/11/06 14:30	None		X
BF- 1A	S			9/12/06 08:40	None		X
BF- 2A	S			9/12/06 08:40	None		X
Relinquished By: <i>Bronwyn Kelly</i>		Date/Time: 9-14-06 1500		Received By: <i>[Signature]</i>		Date/Time: 9-14-06 1500	
Relinquished By: <i>[Signature]</i>		Date/Time: 9-14-06 1815		Received By: <i>[Signature]</i>		Date/Time: _____	
Relinquished By: _____		Date/Time: _____		Received By: _____		Date/Time: _____	
				Turn around Time: (check)			
				24 Hours _____		5 Days _____	
				48 Hours _____		10 Days _____	
				72 Hours _____		Normal _____ X _____	
				Perchlorate Only 72 Hours _____			
				Metals Only 72 Hours _____			
				Sample Integrity: (Check)		Intact _____	
				On Ice: _____		_____	
				Turn around Time: (check)		24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____ X _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) Intact _____ On Ice: _____	

2A 9/15/06
735

Edward N. 9/14/06 1815

MATERIAL SAFETY DATA SHEETS

Silica Sand



MATERIAL SAFETY DATA SHEET

Oglebay Norton Industrial Sands, Inc.

FEBRUARY - 2004

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Names/Trade Names:

Silica Sand sold under various names: Oglebay Norton Industrial Sands, Inc., Colorado Silica Sand ®, Glass Sand, Flint

Synonyms/Common Names: Sand, Silica Sand, Quartz, Crystalline Silica, Flint, Ground Silica, Foundry Sand, Engine Sand, Frac Sand, Filtration Sand, Bunker Sand, Turf Sand, Glass Sand

Manufacturer's Name: Oglebay Norton Industrial Sands, Inc.
Oglebay Norton Industrial Sands, Inc.

PHYSICAL ADDRESS:

31302 ORTEGA HWY.
SAN JUAN CAPISTRANO, CA 92675

MAILING ADDRESS:

P.O. BOX 249
SAN JUAN CAPISTRANO, CA 92693

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient: Crystalline silica (quartz), typically 90.0% to 99.9%

Chemical Formula: SiO₂

CAS#: 14808-60-7

OSHA PEL: Exposure to airborne crystalline silica shall not exceed an 8-hour time-weighted average limit as stated in 29 CFR §1910.1000 Table Z-1-A, Air Contaminants, specifically:

$\frac{10 \text{ mg/m}^3}{\text{SiO}_2+2}$

ACGIH TLV: Crystalline Silica (quartz)

TLV-TWA = 0.1 mg/m³ Respirable Crystalline Silica (quartz)

See Threshold Limit Value and Biological Exposure Indices for American Conference of Governmental Industrial Hygienists (latest edition).

Silica Sand

Other Recommended Limits:

National Institute for Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration=0.05 mg/m³ (respirable free silica) as determined by a full-shift sample up to 10-hour working day, 40-hour work week. See NIOSH Criteria for a Recommended Standard Occupational Exposure to Crystalline Silica.

CAUTION:

Crystalline silica exists in several forms, the most common of which is quartz. If crystalline silica (quartz) is heated to more than 870°C it can change to a form of crystalline silica known as tridymite, and if crystalline silica (quartz) is heated to more than 1470°C, it can change to a form of crystalline silica known as cristobalite. Crystalline silica as tridymite and cristobalite are more fibrogenic than crystalline silica as quartz. The OSHA PEL for crystalline silica as tridymite and cristobalite is one-half the PEL for crystalline silica (quartz); the ACGIH TLV for crystalline silica as tridymite and cristobalite is one-half the TLV for crystalline silica as quartz.

SECTION III – HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

Oglebay Norton Industrial Sands, Inc. material is a white or tan sand, or ground sand. It is not flammable, combustible or explosive. Crystalline silica (quartz) is not known to be an environmental hazard.

Crystalline silica (quartz) is incompatible with hydrofluoric acid, fluorine, chlorine trifluoride or oxygen difluoride.

POTENTIAL HEALTH EFFECTS:

Inhalation:

- Silicosis** Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death.
- Cancer** Respirable crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans.
- Scleroderma** There is evidence that exposure to respirable crystalline silica or that the disease silicosis is associated with the increased incidence of scleroderma, an autoimmune disorder manifested by a fibrosis (scarring) of the skin and internal organs.
- Tuberculosis** Silicosis increases the risk of tuberculosis.
- Nephrotoxicity** There are several studies suggesting that exposure to respirable crystalline silica or that the disease silicosis is associated with the increased incidence of kidney disorders.
- Arthritis** There is evidence that exposure to respirable crystalline silica is associated with the increased incidence of crippling arthritis.

Eye Contact: Crystalline silica (quartz) may cause abrasion of the cornea.

Skin Contact: May cause skin irritation. See Section VII.

Ingestion: Not applicable.

Chronic Effects: The adverse health effects—silicosis, cancer, scleroderma, tuberculosis,

Silica Sand

nephrotoxicity and arthritis — are chronic effects.

Signs and Symptoms of Exposure: There are generally no signs or symptoms of exposure to crystalline silica (quartz). Often, chronic silicosis has no symptoms. The symptoms of chronic silicosis, if present, are shortness of breath, wheezing, cough and sputum production. The symptoms of acute silicosis are the same; additionally, weight loss and fever are associated with acute silicosis. The symptoms of scleroderma include thickening and stiffness of the skin, particularly in the fingers, shortness of breath, difficulty swallowing and joint problems.

Medical Conditions Generally Aggravated by Exposure: The condition of individuals with lung disease (e.g., bronchitis, emphysema, chronic obstructive pulmonary disease) can be aggravated by exposure.

See Section XI, Toxicological Information, for additional detail on potential adverse health effects.

SECTION IV – FIRST-AID MEASURES

Inhalation: No specific first-aid is necessary since the adverse health effects associated with exposure to crystalline silica (quartz) result from chronic exposures. If there is a gross inhalation of crystalline silica (quartz), remove the person immediately to fresh air, give artificial respiration as needed, seek medical attention as needed.

Eye Contact: Wash immediately with water. If irritation persists, seek medical attention.

Skin Contact: Not applicable.

Ingestion: Not applicable.

SECTION V – FIRE FIGHTING MEASURES

Flammability: Crystalline silica (quartz) is non-flammable and non-explosive

Extinguishing Media: None required

Flash Point: None

Special Fire Fighting Procedures: N/A

Flammable Limits: None

Unusual Fire and Explosion Hazards: None

SECTION VI – ACCIDENTAL RELEASE MEASURES

Spills: Use dustless methods (vacuum) and place into closable container for disposal, or flush with water. Do not dry sweep. Wear protective equipment specified below.

Waste Disposal Method: See Section XIII.

Silica Sand

SECTION VII - HANDLING AND STORAGE

WARNING LABEL

DO NOT BREATHE THIS MATERIAL

Never Use This Material Without An Air-Supplied Respirator

Silica (Blasting) sand material contains fine dust. If you breathe this dust you can suffer severe, irreversible lung damage and death. Some medical reports state inhalation of silica dust may cause lung cancer. Medical reports also link breathing silica dust to crippling arthritis and skin and eye irritation.

You must never use this material without having a government-approved respirator. The work area must also be thoroughly ventilated by the use of forced air ventilation during and after use of this material.

Prior to use or handling, you are advised to review and thoroughly understand all health precautions outlined in the Material Safety Data Sheet (MSDS) provided to you by your employer by the supplier of this material.

Respirator Protection

It is a violation of federal safety laws (OSHA) for employers to require workers to use this material without full respiratory protection. The federal laws that apply are: 29CFR 1910.134; 29CFR 1910.1000; 29CFR 1910.94.

It is recommended that users of abrasive blasting media use OSHA approved positive pressure, air fed breathing hood respirators. The positive air pressure will prevent dust from being drawn into the respirator. Continue to wear the respirator until all airborne dust is eliminated from the work area.

Ventilation

Finely divided silica dust is nearly invisible. Work areas must be thoroughly ventilated with forced ventilation fans sufficient to exhaust all dust and provide a complete air exchange every five minutes. Continue ventilation even after abrasive blasting operations have been completed.

Other Protective Equipment

Dust can be harmful to skin and eyes. You need to wear tight goggles, heavy rubber gloves. Clothing should be tight fitting at the cuffs, neck and ankles to prevent dust from contacting your body. Clothing should be regularly washed to prevent dust accumulation.

Warning Symptoms and First Aid

If you experience shortness of breath, coughing, lung and/or throat irritation these may be early warning signs that silica dust is causing a medical condition such as silicosis. Avoid further contact with the material and see your doctor at once if such symptoms occur. Swelling of joints, and joint pain, may signal the start of arthritis, which is also reported to be aggravated by silica exposure. Again, if such symptoms occur seek immediate medical attention.

If eye contact and irritation take place, flush your eyes continuously with clear cold water for at least 15 minutes and then see your doctor for an examination and possible treatment.

Silica Sand

Respiratory Protection

The following chart specifies the types of respirators that may provide respiratory protection for crystalline silica.

CONDITION Particulate Concentration	MINIMUM RESPIRATORY PROTECTION*
10 x PEL or less	Any particulate respirator, except single-use or quarter-mask respirator. Any fume respirator or high efficiency particulate filter respirator. Any supplied-air respirator. Any self-contained breathing apparatus.
50 x PEL or less	A high efficiency particulate filter respirator with a full facepiece. Any supplied-air respirator with a full facepiece, helmet, or hood. Any self-contained breathing apparatus with a full facepiece.
500 x PEL or less	A powered air-purifying respirator with a high efficiency particulate filter. A Type C supplied-air respirator operated in pressure-demand or other positive pressure or continuous-flow mode.
Greater than 500 x PEL or entry and escape from unknown concentrations <u>Abrasive blasting</u>	A type C, supplied-air respirator with a full facepiece, hood, or helmet, operated in a positive pressure mode (see 29 CFR 1910.94(a)) Anyone in the vicinity of the blasting site during blasting and during cleanup should wear proper respiratory protection. (See 29 CFR 1910.94 (5) (iii)) Also see 30 CFR Part 11.
*Use only NIOSH-approved or MSHA-approved equipment. See 29 CFR §1910.134 and 42 CFR §84.	

See also ANSI standard Z88.2 (latest revision) "American National Standard for Respiratory Protection"

Permissible Exposure Levels:

Component	CAS Number	Percentage (by weight)
Crystalline Silica (Quartz)	14808-60-7	90.0 - 99.9

Silica Sand

Exposure Guidelines						
OSHA		ACGIH		NIOSH		
TWA	STEL	TWA	STEL	TWA	STEL	Unit
10 % SiO ₂ +2	None	.1	None	.05	None	mg/m ³

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White or tan sand; granular, crushed, or ground

Odor: None

Boiling Point: 4046°F

Vapor Pressure (mm Hg.): None

Specific Gravity (Water = 1): 2.65

Vapor Density (Air = 1): None

Melting Point: 3110°F

Solubility in Water: Insoluble in water

Evaporation Rate (Butyl Acetate = 1): None

SECTION X – STABILITY AND REACTIVITY

Stability: Crystalline silica (quartz) is stable.

Incompatibility (Materials to Avoid): Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, oxygen difluoride, may cause fires.

Hazardous Decomposition or Byproducts: Silica will dissolve in hydrofluoric acid and produce a corrosive gas - silicon tetrafluoride.

Hazardous Polymerization: Will not occur.

Silica Sand

SECTION XI - TOXICOLOGICAL INFORMATION

A. SILICOSIS

The major concern is silicosis, caused by the inhalation and retention of respirable crystalline silica dust. Silicosis can exist in several forms, chronic (or ordinary), accelerated, or acute.

Chronic or Ordinary Silicosis is the most common form of silicosis, and can occur after many years of exposure to relatively low levels of airborne respirable crystalline silica dust. It is further defined as either simple or complicated silicosis.

Simple silicosis is characterized by lung lesions (shown as radiographic opacities) less than 1 centimeter in diameter, primarily in the upper lung zones. Often, simple silicosis is not associated with symptoms, detectable changes in lung function or disability.

Simple silicosis may be progressive and may develop into complicated silicosis or progressive massive fibrosis (PMF). Complicated silicosis or PMF is characterized by lung lesions (shown as radiographic opacities) greater than 1 centimeter in diameter. Although there may be no symptoms associated with complicated silicosis or PMF, the symptoms, if present, are shortness of breath, wheezing, cough and sputum production. Complicated silicosis or PMF may be associated with decreased lung function and may be disabling. Advanced complicated silicosis or PMF may lead to death. Advanced complicated silicosis or PMF can result in heart disease secondary to the lung disease (cor pulmonale).

Accelerated Silicosis can occur with exposure to high concentrations of respirable crystalline silica over a relatively short period; the lung lesions can appear within five (5) years of the initial exposure. The progression can be rapid. Accelerated silicosis is similar to chronic or ordinary silicosis, except that the lung lesions appear earlier and the progression is more rapid.

Acute Silicosis can occur with exposures to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss. Acute silicosis is fatal.

B. CANCER

IARC - The International Agency for Research on Cancer ("IARC") concluded that there was "*sufficient evidence* in humans for the carcinogenicity of crystalline silica in the forms of quartz or cristobalite from occupational sources", and that there is "*sufficient evidence* in experimental animals for the carcinogenicity of quartz and cristobalite." The overall IARC evaluation was that "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is *carcinogenic to humans (Group 1)*." The IARC evaluation noted that "carcinogenicity was not detected in all industrial circumstances studies. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." For further information on the IARC evaluation, see IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 68, "Silica, Some Silicates..." (1997). (Emphasis added)

Silica Sand

SECTION XV – REGULATORY INFORMATION

UNITED STATES (FEDERAL AND STATE)

RCRA: Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR §261 et seq.

CERCLA: Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR §302.

Emergency Planning and Community Right to Know Act: Crystalline silica (quartz) is not an extremely hazardous substance under Section 302 and is not a toxic chemical subject to the requirements of Section 313.

Clean Air Act: Crystalline silica (quartz) mined and processed by Oglebay Norton Industrial Sands, Inc. was not processed with or does not contain any Class I or Class II ozone depleting substances.

TSCA No.: Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7.

FDA: Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR §175.300(b)(3)(xxvi).

NTP: Respirable crystalline silica (quartz) is classified as a probable carcinogen.

OSHA Carcinogen: Respirable crystalline silica (quartz) is not listed.

California Proposition 65: Respirable crystalline silica (quartz) is classified as a substance known to the state of California to be a carcinogen.

WHMIS Classification: D-2A

OTHER

EINECS No.: 231-545-4

EEC Label (Risk/Safety Phrases): R 48/20, R 40/20, S22, S38

IARC: Crystalline silica (quartz) is classified in IARC Group 1.

National, state, city, county or local emergency planning, community right to know or other laws, regulations or ordinances may be applicable—consult applicable national, state, provincial or local laws.

Silica Sand

SECTION XVI - OTHER INFORMATION**Hazardous Material Information System (HMIS):**

Health	*
Flammability	0
Reactivity	0
Protective Equipment	E

* For further information on health effects, see Sections III and XI of this MSDS.

National Fire Protection Association (NFPA):

Health	0
Flammability	0
Reactivity	0

<http://www.msha.gov> - The Mine Safety Health Administration Home Page, which contains general (not mining specific) information on silicosis. Click on "Silicosis Prevention".
<http://www.cdc.gov/niosh/silicpag.html> - NIOSH Hotlinks to Silicosis Prevention.

OGLEBAY NORTON INDUSTRIAL SANDS, INC. DISCLAIMER

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, IS MADE WITH RESPECT TO THE INFORMATION CONTAINED HEREIN. WE ACCEPT NO RESPONSIBILITY AND DISCLAIM ALL LIABILITY FOR ANY HARMFUL EFFECTS WHICH MAY BE CAUSED BY EXPOSURE TO OUR SILICA. CUSTOMER-USERS OF SILICA MUST COMPLY WITH ALL APPLICABLE HEALTH AND SAFETY LAWS, REGULATIONS, AND ORDERS, INCLUDING THE OSHA HAZARDOUS COMMUNICATION STANDARD.

Silica Sand

Precautions During Storage

Avoid breakage of bagged material or spills of bulk material. See control measures in Section VIII.

Safety Notes: Federal safety regulations require that employers train workers in the safe use of abrasive blasting materials and equipment and that they hold periodic safety meetings to assure that safety precautions are being maintained. Report any concerns about these issues to OSHA at (202) 999-OSHA

The OSHA Hazard Communication Standard, 29 CFR Sections 1910.1200, 1915.99, 1917.28, 1918.90, 1926.59, and 1928.21, and state and local worker or community "right to know" laws and regulations should be strictly followed.

WARN YOUR EMPLOYEES (AND YOUR CUSTOMERS IN CASE OF RESALE) BY POSTING AND OTHER MEANS OF THE HAZARDS AND THE REQUIRED OSHA PRECAUTIONS. PROVIDE TRAINING FOR YOUR EMPLOYEES ABOUT THE OSHA PRECAUTIONS FOR HANDLING CRYSTALLINE SILICA.

See also American Society for Testing and Materials (ASTM) standard practice E 1132-86, "Standard Practice for Health Requirements Relating to Occupational Exposure to Quartz Dust."

For Additional Health and Safety Information, Call OSHA, at (202) 999-OSHA

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Local Exhaust

Use sufficient local exhaust to reduce the level of respirable crystalline silica to below the PEL. See ACGIH "Industrial Ventilation, A Manual of Recommended Practice" (latest edition).

Silica Sand

NTP - The National Toxicology Program, in its Sixth Annual Report on Carcinogens, concluded that "silica, crystalline (respirable)" may reasonably be anticipated to be a carcinogen, based on sufficient evidence in experimental animals and limited evidence in humans.

OSHA - Crystalline silica (quartz) is not regulated by the U. S. Occupational Safety and Health Administration as a carcinogen.

There is substantial literature on the issues of the carcinogenicity of crystalline silica, which the reader should consult for additional information. A summary of the literature is set forth in "Exposure to crystalline silica and risk of lung cancer; the epidemiological evidence", Thorax, Volume 51, pp. 97-102 (1996). The official statement of the American Thoracic Society on the issue of silica carcinogenicity was published in "Adverse Effects of Crystalline Silica Exposure", American Journal of Respiratory and Critical Care Medicine, Volume 155, pp. 761-765 (1997). The official statement concluded that "The available data support the conclusion that silicosis produces increased risk for bronchogenic carcinoma. The cancer risk may also be increased by smoking and other carcinogens in the workplace. Epidemiologic studies provide convincing evidence for increased cancer risk among tobacco smokers with silicosis. Less information is available for never-smokers and for workers exposed to silica but who do not have silicosis. For workers with silicosis, the risks for lung cancer are relatively high and consistent among various countries and investigators. Silicosis should be considered a condition that predisposes workers to an increased risk of lung cancer." Id. at 763.

C. SCLERODERMA

There is evidence that exposure to respirable crystalline silica or that the disease silicosis is associated with the increased incidence of scleroderma, an immune system disorder manifested by a fibrosis (scarring) of the lungs, skin and other internal organs. Recently, the American Thoracic Society noted that "there is persuasive evidence relating scleroderma to occupational silica exposures in setting where there is appreciable silicosis risk." The following may be consulted for additional information on silica, silicosis and scleroderma (also known as progressive systemic sclerosis): Occupational Lung Disorders, Third Edition, Chapter 12, entitled "Silicosis and Related Diseases", Parkes, W. Raymond (1994). "Adverse Effects of Crystalline Silica Exposure", American Journal of Respiratory and Critical Care Medicine, Volume 155, pp. 761-765 (1997).

D. TUBERCULOSIS

Individuals with silicosis are at increased risk to develop tuberculosis, if exposed to persons with tuberculosis. The following may be consulted for further information: Occupational Lung Disorders, Third Edition, Chapter 12, entitled "Silicosis and Related Diseases", Parkes, W. Raymond (1994). "Adverse Effects of Crystalline Silica Exposure", American Journal of Respiratory and Critical Care Medicine, Volume 155, pp. 761-765 (1997).

Silica Sand

E. NEPHROTOXICITY

There are several recent studies suggesting that exposure to respirable crystalline silica or that the disease silicosis is associated with the increased incidence of kidney disorders. The following may be consulted for additional information on silica, silicosis and nephrotoxicity: Occupational Lung Disorders, Third Edition, Chapter 12, entitled "Silicosis and Related Diseases", Parkes, W. Raymond (1994). "Further evidence of human silica nephrotoxicity in occupationally exposed workers", British Journal of Industrial Medicine, Vol. 50, No. 10, pp. 907-912 (1993). "Adverse Effects of Crystalline Silica Exposure", American Journal of Respiratory and Critical Care Medicine, Volume 155, pp. 761-765 (1997).

F. ARTHRITIS

There are recent studies suggesting that exposure to respirable crystalline silica or that the disease silicosis is associated with the increased incidence of arthritis. The following may be consulted for additional information on silica exposure and arthritis: American Journal of Industrial Medicine, Volume 35, pp. 375-381 "Connective Tissue Disease and Silicosis", Rosenman KD; Moore-Fuller M.; Reilly MJ. (1999). Environmental Health Perspective, Volume 107, pp. 793-802 "Occupational Exposure to Crystalline Silica and Autoimmune Disease", Parks CG; Conrad K; Cooper GS. (1999).

SECTION XII – ECOLOGICAL INFORMATION

Crystalline silica (quartz) is not known to be ecotoxic; i.e., no data suggests that crystalline silica (quartz) is toxic to birds, fish, invertebrates, microorganisms or plants. For additional information on crystalline silica (quartz), see Sections IX (physical and chemical properties) and X (stability and reactivity) of this MSDS.

SECTION XIII – DISPOSAL CONSIDERATIONS

General: The material may be landfilled; however, spent abrasive media may contain materials derived from the prepared surfaces that because of contamination may not be disposed of in landfills. Disposed material should be covered to minimize generation of airborne dust.

RCRA: Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR §261 et seq.

The above applies to materials as sold by Oglebay Norton Industrial Sands, Inc. The material may be contaminated during use, and it is the responsibility of the user to assess the appropriate disposal of the used material.

SECTION XIV – TRANSPORT INFORMATION

Crystalline silica (quartz) is not a hazardous material for purposes of transportation under the U.S. Department of Transportation Table of Hazardous Materials, 49 CFR §172.101.

WARNING



DO NOT BREATHE THIS MATERIAL

Blasting sand contains fine silica dust. If you breathe in this dust you can suffer severe, irreversible damage and death. Some medical reports state inhalation of silica dust may cause lung cancer. Medical reports also link breathing silica dust to crippling arthritis and skin and eye irritation. You must **never** use this material without having a government-approved respirator. The work area must also be thoroughly ventilated by the use of forced ventilation during and after use of this material.

Prior to use or handling, you are advised to review and thoroughly understand all the precautions outlined in the Material Safety Data Sheet (MSDS) provided to your employer by the supplier of this material.

It is a violation of federal safety laws (OSHA) for employers to require workers to use this material without full respiratory protection. The federal laws that apply are: 29CFR1910.134; 29CFR1910.1000; and 29CFR1910.103. It is recommended that users of the blast sand use OSHA-approved, positive pressure, air-fed breathing apparatus. The positive air pressure will prevent silica dust from being drawn into the respirator. Continue to use the respirator until all airborne silica dust has been exhausted from the work area.

Finely divided silica dust is nearly invisible. Work areas must be thoroughly ventilated with forced ventilation fans sufficient to exhaust all silica dust and provide a complete air exchange every five minutes. Continue ventilation even after sand blasting operations have been completed.

Silica dust can also be harmful to your skin and eyes. You need to wear tight goggles, heavy rubber gloves. Clothing should be tight fitting at the cuffs, neck and ankles to prevent silica dust from contacting your body. Clothing should be regularly washed to prevent dust accumulation.

If you experience shortness of breath, coughing and lung and/or throat irritation these may be early warning signs that silica dust is producing a medical condition such as silicosis. Avoid further contact with this material and see your doctor at once if such symptoms occur. Swelling of the joints, and joint pain, may signal the onset of arthritis, which is also reported to be aggravated by silica exposure. Again, if such symptoms occur seek immediate medical attention.

If eye contact and irritation take place, flush your eyes continuously with clear cold water for at least 15 minutes and then see your doctor for an examination and possible treatment.

Safety Notes: Federal safety regulations require that employers train workers in the safe use of abrasive blasting materials and equipment and that they hold periodic safety meetings to assure that safety precautions are being maintained. Report any concerns about these issues to OSHA at (202) 999-OSHA.

For more Information or Questions Call:
Oglebay Norton Industrial Sands
Orange County Plant (949) 728-0195

AVISO DE PELIGROS EN EL OTRO LADO EN ESPAÑOL

Pour recevoir la version française de cet avis, contactez le service client.



Arena de blastear contiene polvo de silice fino. Si respira para adentro, este polvo causar daño severo e irreversible de pulmon y muerte. Algunos reportes medicos dicen que el respirar polvo de silice puede causar cancer de pulmon. Reportes medicos tambien relacionan la inhalacion (respiracion) de polvo de silice a asma, dolor y a irritacion de piel y ojos. Nunca debe usar este material sin un respirador aprobado por el gobierno. La area de trabajo tambien debe de estar ventilada a fondo con el uso de ventilacion forzada (abanicos) durante y despues de usarse este material.

Antes de manejar o usar, se aconseja que revise y comprenda todas precauciones de salubridad como se explican en la Pagina de Seguridad de Material (MSDS) proveida a su empleador por el proveedor de este material.

Es una violacion de leyes Federales de seguridad (OSHA) que empleadores exijan que trabajadores usen este material sin proteccion respiratoria completa. Las leyes Federales que se aplican son: 29CFR 1910.1000 and 29CFR 1910.94.

Es recomendado que los usuarios de la arena de rafaga (para blastear) usen presion positiva con capuchas y respiradoras de aire aprobadas por OSHA. La presion positiva de aire evita que el polvo de silice sea atraido al usuario. Continue a usar el respirador hasta que todo el polvo de silice en el aire sea agotado en la area de trabajo.

Polvo de silice finamente dividido es casi invisible. Area de trabajo deben de estar ventiladas a fondo con ventilacion forzada de abanicos, suficiente para agotar todo el polvo de silice y proveer un cambio completo de aire cada cinco minutos. Continue la ventilacion aunque la operacion de rafaga (sanblastear) haya sido terminada.

Polvo de silice tambien puede ser danoso a su piel y ojos. Necesita usar gafas apretadas, y guantes de mano. La ropa debe quedar apretada en los puños, el cuello y tobillos para evitar que el polvo de silice se ponga en contacto con su cuerpo. La ropa debe lavarse de regla para evitar acumulacion de polvo.


Si experiencia falta de respiracion, tos, y irritacion de pulmon y/o garganta, esto pueden ser señales de problemas que polvo de silice esta produciendo una condicion medica como silicosis. Evite mas contacto con el material y vea su doctor en seguida si estos sintomas ocurren. Hinchazon y dolor de las coyunturas pueden ser señales del principio de artritis que tambien informan se agrava con exposicion a silice. Otra vez, si estos sintomas ocurren, procure atencion medica inmediata.

Notas de Seguridad: Reglas de seguridad federales exigen que empleadores entrenen trabajadores en el uso seguro de materiales abrasivos de blastear y equipo y que tengan reuniones periodicas de seguridad para asegurar que precauciones de seguridad se esten llevando a cabo. Reporte cualquier preocupacion tocante a esto a OSHA (202) 999-OSHA.

Para Informacion y Preguntas del Material Llame:
Oglebay Norton Industrial Sands
Orange County Plant (949) 728-0195

TO READ THIS WARNING IN ENGLISH SEE OTHER SIDE

Pour recevoir la version francaise de cet avis, appeler le (949) 728-0195


OGLEBAY NORTON INDUSTRIES
ORANGE COUNTY, CALIFORNIA
 31302 ORTEGA HIGHWAY EXIT SH # 74 (5 MILES EAST OF I-5)
 SAN JUAN CAPISTRANO, CA 92676
 TELEPHONE: 800-345-0171 (INSIDE CALIFORNIA) 800-637-6258 (OUTSIDE CALIFORNIA)
 PHONE (714)728-0171 FAX (714)728-0321

(Revised 2/1/2004)

SPECIALTY SAND - TYPICAL SPECIFICATIONS & PROPERTIES

Typical Chemical Analysis

SiO ₂	75-84%
Al ₂ O ₃	8-12%
Fe ₂ O ₃	0.2-0.6%
Na ₂ O	1-4%
CaO	1-3%
MgO	0-0.1%
K ₂ O	3-5%
TiO ₂	0-0.3%
LOI	0-2%

Typical Screen Analysis - % Retained on U.S. Sieves

Product	8	12	16	20	30	40	50	70	100	140	200	270	Pan	AFS	Elet. Size	Unif. Coeff.
# 12	1.9	42.7	50.0	4.7	0.4	-	-	-	-	-	-	-	0.2	9	1.2-1.3 mm	<1.5
# 16	-	0.1	25.4	57.0	14.0	1.9	1.5	-	-	-	-	-	0.1	13	0.65-0.75 mm	<1.6
# 20	-	-	0.1	7.5	59.0	30.7	2.4	0.2	Tr	-	-	-	0.1	24	0.425-0.55 mm	<1.5
# 30	-	-	-	-	-	-	-	-	-	-	-	-	0.1	39	0.3-0.4 mm	<1.5
# 60	-	-	-	-	0.1	1.3	10.0	74.7	12.7	1.0	0.1	-	0.1	66	0.11-0.15 mm	<1.8
60M	-	-	-	-	-	2.8	6.4	30.2	38.6	19.8	2.0	0.1	0.1	70	0.10-0.15 mm	<1.8
60 I	-	-	-	-	Tr	4.6	6.6	16.7	34.4	25.6	10.0	1.6	0.5	70	0.10-0.15 mm	<1.8
# 90	-	-	-	-	-	0.6	1.5	23.7	39.8	23.3	7.4	2.1	1.6	102	0.075-0.10 mm	<1.8
50W	0.5	2.4	9.8	13.8	20.2	20.2	16.3	13.5	2.6	0.7	-	-	0.5	36	N/A	N/A
Ortega Blend	-	-	-	Tr	4.8	6.8	16.5	34.2	26.2	9.8	1.4	0.3	58	N/A	N/A	N/A

Other Properties:
 Acid Solubility: 0.4-0.6%
 PH: 7.4
 Specific Gravity: 2.65
 Hardness (Moh's Scale): 7.0

Warning:
 Industrial sand products contain free silica. Do not breathe dust. Prolonged, unprotected exposure may cause delayed lung injury (silicosis). Some medical reports state inhalation of silica dust may cause lung cancer. Follow OSHA Safety and Health Standards for crystalline silica (quartz).

Therm-O-Rock West, Inc.

Material Safety Data Sheet -- Vermiculite

Date Prepared/Reviewed – December 15, 2005

Product Identification: Trade Name : Therm-O-Rock Vermiculite
Generic Name: Vermiculite, expanded
Chemical Name: Magnesium – Aluminosilicate Mineral
Formula: (Mg, Ca, K) (Al, Fe, Mg) (Si, Al)₄O₁₀ OH₂ H₂O
CAS#: 1318-00-9
Manufacturer: Therm-O-Rock West, Inc.
Address: 6732 W. Willis Road, Chandler, AZ 85226
Telephone: 520-796-1000

Hazard Ratings: Health 1 0=Least
1=Slight
Flammability 0 2=Moderate
3=High
Reactivity 0 E=Extreme

Product Ingredients:

Ingredient Name	CAS Number	%	Permissible Exposure Limit
Magnesium Aluminosilicate Mineral	1318-00-9	100	OSHA ACGIH Not established

Physical Data: Appearance & Odor: Tan flakes, granules or powder with no odor.
Boiling Point: N/A
Evaporation Rate (=1): N/A
Vapor Pressure: None
Specific Gravity (water=1): 3-12 PCF (bulk density)
Water Solubility (%): Negligible
Melting Point: 1000⁰ C
Vapor Density (Air=1): None
% Volatile by Volume: N/A

Fire & Explosion Data: Flash point (method): None
NFPA Flammable/Combustible liquid classification
Auto-Ignition Temperature: N/A
Flammable Limits: N/A
Unusual Fire or Explosion Hazards: None
Extinguishing Media: N/A
Special Fire-Fighting Procedures: None

Health Hazards: A. Summary/Risks
A nuisance dust: Inhalation over long periods of high amounts of any nuisance dust may make lungs more vulnerable to respiratory disease.
Medical conditions which may be aggravated: pre-existing upper

respiratory and lung disease such as, but not limited to bronchitis, emphysema and asthma.

Primary Entry Route(s): Inhalation

Acute Health Effects: Transitory upper respiratory irritant.

Chronic Health Effects: None known

B. Signs/Symptoms of Overexposure

Inhalation: may cause symptoms of nuisance dusts, i.e. coughing, sneezing and minor upper respiratory irritation.

Skin Contact: Not expected to cause any harmful effects.

Ingestion: Not considered harmful.

Skin Absorption: N/A

Eyes: Direct contact may cause physical irritation.

Carcinogen: Not applicable according to OSHA.

C. First Aid/Emergency Procedures

Inhalation: Leave area. Get to fresh air. If symptoms persist consult a physician.

Skin Contact: N/A

Ingestion: N/A

Eyes: Flush with plenty of water while lifting eyelids and rolling eyes. If irritation persists, consult a physician.

Reactivity Data: Chemical Incompatibilities: None known
Conditions to Avoid: None
Hazardous Decomposition Products: N/A

Spill or Leak Procedures: Use methods which avoid creating airborne dusts. Remove for disposal.

Waste Management: According to EPA (40 CFR 261.3) waste of this product is not defined as hazardous. Dispose of all waste in accordance with Federal, State and Local regulations.

Special Protection Information:

Goggles: Recommended

Gloves: Not generally required.

Respirator: Wear NIOSH approved dust mask.

Ventilation: Not required but should be used.

Special Considerations for Repair/Maintenance of Contaminated Equipment: N/A

Special Precautions:

Storage Segregation Hazard Classes: N/A

ALWAYS SEGREGATE MATERIALS BY MAJOR HAZARD CLASS

Special Handling/Storage: Repair all broken bags immediately. Avoid creating dust. Maintain good housekeeping practices.

Special Workplace Engineering Controls: Not required.

Other: Comply with all Federal, State and local regulations.

Prepared/Revised by:

Ronald J. Dobkin, President

As of this date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable Federal and State law(s). However, no warranty or representation with respect to such information is intended or given.

REDCO II

MATERIAL SAFETY DATA SHEET

EXPANDED PERLITE PRODUCTS

I. Product Identification

Trade Name (as labeled): Redco II Expanded Perlite (May be Provosil, Horti-Perl, RedcoLite, Provosil Wash, or Perf-a-lite)

Manufacturer's Name: Redco II

Address: 11831 Vose Street, North Hollywood, CA 91605-5793

Phone Number: (818) 759-2255

Date Prepared or Revised: June 19, 2003

II. Product Ingredients

Chemical Names	CAS Numbers	Exposure Limits in Air (give units)		
		ACGIH TLV	OSHA PEL	Other (specify)
Perlite	93-763-70-3	10 mg/M ³	15 mg/M ³	

A mineral composed of sodium potassium aluminum silicate of variable composition, perlite is considered a nuisance dust only.

Alpha-Cristobalite & Tridymite: Less than 0.1%
 Alpha Quartz: 0.01 to 0.05%

III. Physical Properties

Vapor Density (air=1)	N/A	Melting point or range, °F:	2000+
Specific Gravity (Water=1)	.1 to .4	Boiling point or range, °F:	N/A
Solubility in Water:	<1%	Evaporation rate (butyl acetate=1)	N/A
Vapor Pressure, mmHg at 20°C:	N/A		
Appearance and odor:	White to off white granules, no odor.		

HOW TO DETECT THIS SUBSTANCE (warning properties of substance as a gas, vapor, dust, or mist):
 Visual only (dust). No gas, vapors, or mist emitted.

IV. Fire and Explosion

Flash Point, °F (Give method): Perlite is a fully oxidized, non-flammable mineral.

Auto ignition temperature, °F: N/A

Flammable limits in air, Volume %: N/A Lower (LEL): N/A Upper (UEL): N/A

Fire extinguishing materials: N/A

_____ water spray _____ carbon dioxide _____ other:

_____ foam _____ dry chemical

Special fire fighting procedures: N/A Unusual fire and explosion hazards: N/A

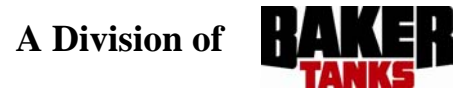
IX. Transportation Information

D.O.T. Proper Shipping Name:
Perlite other than crude (expanded)

D.O.T. Identification Number (UN Number):
Not applicable

D.O.T. Hazard Classification: Not Classified

D.O.T. Packing List: Not classified



4306 West 190th Street, Torrance, CA 90504
Tel: 310.303-3700 ♦ Fax: 310.406-3001

Activated Carbon and Specialty Media
Pollution Control Systems and Filtration Equipment Rental

MATERIAL SAFETY DATA SHEET

DATE OF ISSUE: June 6, 2005

SECTION I- GENERAL INFORMATION

MANUFACTURER NAME: **Baker Filtration 310.303.3700**
4306 West 190th Street, Torrance, CA 90504

SYNONYMS: Modified Zeolite

TRADE NAMES & SYNONYMS: **Z-200**

CHEMICAL FAMILY: Zeolite CAS NO. 68911-87-5

CAS NAME: Quaternary Ammonium Compounds

SECTION II- INGREDIENTS

MATERIALS: Zeolite/Water: 95.84% by wt.,
Quaternary Ammonium Compounds: 4.16% by wt.

SECTION III- PHYSICAL DATA

BOILING POINT (760 mm Hg): N/A

Vapor pressure (MM Hg AT 20°C): N/A

VAPOR DENSITY (AIR=1): N/A

pH INFORMATION: N/A

SPECIFIC GRAVITY (H₂O=1): 0.72

PERCENT VOLATILE BY VOLUME: <2.5%

EVAPORATION RATE (Ethyl Ether=1) N/A

APPEARANCE: White-gray and black

ODOR: Negligible odor.

ODOR THRESHOLD (ppm): N/A

SECTION IV- FIRE HAZARD & EXPLOSIVE DATA

FLASH POINT (method used): N/A

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS IN AIR: Lower Explosive Limit: 0.07 oz./cu. ft Upper Explosive Limit: N/A

NFPA CLASSIFICATION: Health: 0 Fire: 0 Reactivity: 0 Specific

Hazard: None

HAZARD RATING: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4

FIRE AND EXPLOSION HAZARDS: Does not normally present a fire or explosion hazard, but dust concentrations greater than 0.07 oz./cu. ft. may ignite at 510 degrees C or when exposed to a spark or other ignition source.

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING INSTRUCTIONS: Normal Precautions for flammable dusts should be followed.

SECTION V- HEALTH HAZARD DATA

EXPOSURE LIMITS: N/A

ROUTES OF EXPOSURE AND EFFECTS: (Inhalation): Under ordinary exposure, there are no known side effects. Continued exposure of mucous membranes to dust may cause drying of exposed areas. Avoid chronic inhalation of dust.

(Skin): Under ordinary exposure, there are no known side effects. Continued exposure of skin to dust may cause drying of exposed areas.

(Eye): Eye contact can cause irritation. (Ingestion): No known effects

FIRST AID: (Inhalation): No special procedures needed. (Skin): No special procedures needed.

(Eye): Flush eyes with water. (Ingestion): No special procedures needed.

SECTION VI- REACTIVITY DATA

STABILITY: UNSTABLE → STABLE → X

INCOMPATABILITY (Materials to avoid): none

HAZARDOUS DECOMPOSITION PRODUCTS: none

POLYMERIZATION: None

SECTION VII- PROTECTION INFORMATION

VENTILATION: Adequate dust collection system should be used to avoid formation of dust aerosol.

PERSONAL PROTECTIVE EQUIPMENT: (Eye): Goggles or safety glasses are required.

(Gloves): Protective gloves are recommended. (Respirator): Dust mask required.

(Other): None needed.

SECTION VIII- DISPOSAL PROCEDURES

AQUATIC TOXICITY: Non-toxic

SPILL, LEAK OR RELEASE: Spilled powder may be collected by shoveling or sweeping. Respirator and eye protection must be worn. Care should be taken to prevent high dust concentrations in the air.

WASTE DISPOSAL: Solid waste disposal. Suitable for incineration.

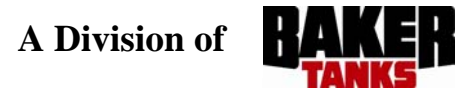
SECTION IX- SPECIAL PRECAUTIONS

STORAGE AND HANDLING CONDITIONS: Precautions for finely divided, flammable dust should be followed. Avoid high dust concentrations. Use adequate dust collection equipment. Insure all equipment is properly grounded to prevent static discharge. Keep dust away from open flame, heat, or electrical equipment.

SECTION X- PRECAUTIONARY LABEL (IF APPLICABLE)

Not Applicable.

The information contained herein is based on data considered accurate in light of current formulation. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.



4306 West 190th Street, Torrance, CA 90504
Tel: 310.303-3700 ♦ Fax: 310.406-3001

Activated Carbon and Specialty Media
Pollution Control Systems and Filtration Equipment Rental

MATERIAL SAFETY DATA SHEET

DATE OF ISSUE: June 6, 2005

SECTION I- GENERAL INFORMATION

MANUFACTURER NAME: **Baker Filtration 310.303.3700**
4306 West 190th Street, Torrance, CA 90504

CHEMICAL NAMES & SYNONYMS: Activated Carbon, Activated Coconut, Activated Charcoal, Char

TRADE NAMES & SYNONYMS: **Activated Carbon**

CHEMICAL FAMILY: Amorphous Carbon, Activated Coconut FORMULA: Carbon atom in a crystallite structure has an infinite molecular weight, Anthracite Coal, Sub-Bituminous Coal, Bituminous Coal CAS NO. 7440-440

SECTION II- HAZARDOUS INGREDIENTS

CHEMICAL NAME (Ingredients) [% TLV (Units)]: No Hazardous Ingredients

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASSES [% TLV (Units)]: LIQUIDS

Activated Carbons that have adsorbed other carbon or non-carbon liquids or gasses may lower or raise the ignition point and must be laboratory checked for ignition point when expended.

SECTION III- PHYSICAL DATA

BOILING POINT (DEG F): 4200

SPECIFIC GRAVITY (H₂O-1): 1.8-2.1

VAPOR PRESSURE (MM HG) N/A

PERCENT VOLATILE BY VOLUME: none

VAPOR DENSITY (AIR=1): N/A

EVAPORATION RATE: none

SOLUBILITY IN WATER: insoluble

IGNITION TEMPERATURE: 600 deg C

APPEARANCE & ODOR: Odorless, black granular solid

SECTION IV- FIRE HAZARD & EXPLOSIVE DATA

FLASH POINT (method used): none

FLAMMABLE LIMITS: Lower Explosive Limit: N/A Upper Explosive Limit: N/A

EXTINGUISHED MEDIA: Use media for class A fires: Foam, multipurpose dry chemical and water type extinguishers.

SPECIAL FIRE FIGHTING PROCEDURES: none

UNUSUAL FIRE & EXPLOSION HAZARDS: Provide for the handling of dry flowing solids in grounded equipment to prevent build up of static electric charge especially when explosive dust or vapor mixtures may exist in confined areas. Also provide for pressure relief devices following the principles set forth in the National Fire Protection Association Explosion Preventing Guide

NFPA68-1854.

SECTION V- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Avoid exposure to dust levels 15 mg per cubic meter.

(Federal), 10 mg per cubic meter (California State).

EFFECTS OF OVEREXPOSURE: Temporary dryness to mucous membrane causing coughing and minor nose and throat irritation.

EMERGENCY AND FIRST AID PROCEDURES: Wash mouth with water-no other treatment required. Use protective respiratory equipment to avoid inhaling carbon dust.

SECTION VI- REACTIVITY DATA

STABILITY: UNSTABLE→ STABLE→ **X**

CONDITIONS TO AVOID: Activated Carbon is chemically inert

INCOMPATIBILITY (Materials to avoid): none

HAZARDOUS DECOMPOSITION PRODUCTS: none

HAZARDOUS POLYMERIZATION: MAY OCCUR→ WILL NOT OCCUR→**X**

SECTION VII- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Spills can create nuisance dust and house keeping problems. Vacuuming is best clean up procedure.

WASTE DISPOSAL METHOD: Wet or dry activated carbon is best disposed of by landfill.

SECTION VIII-PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify Type): Respiratory classifications table G-2 part 1910.93 (OESHA) Rules & Regulations.

VENTILATION: LOCAL EXHAUST: Vacuum to control dust

PROTECTIVE GLOVES: None required

EYE PROTECTION: For airborne dust

OTHER PROTECTIVE EQUIPMENT: Protective clothing should be worn during handling to protect against airborne dust.

SECTION IX- SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Packaged activated carbon is not resistant to weather or outside storage and requires indoor Type I and Type II storage facilities.

OTHER PRECAUTIONS: Check oxygen content of atmosphere of any vessel containing activated carbon before allowing entry of personnel.

SECTION X- TRANSPORTATION DATA

PROPER SHIPPING (Article) NAME: Steam Activated Carbon, Non-Regulated **OR** Carbon, Activated, Non-Regulated

DOT CLASSIFICATION: NMFC 40560 / DOT MARKING: N/A / DOT PLACARD: N/A

EMERGENCY ACCIDENT PRECAUTIONS AND PROCEDURES:

Contact: Baker Filtration

Phone: 310.303.3700

PRECAUTIONS TO BE TAKEN IN TRANSPORTATION: N/A

The information contained herein is based on data considered accurate in light of current formulation. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

Baker Filtration Corporate Offices
4306 W. 190th Street, Torrance, California 90504
Phone: 310.303.3700 ♦ Fax: 310.406.3001

FIBROUS BLOND SPHAGNUM PEAT MOSS

PRO-MOSS 'TBK' is made of a select long-fibered blond Sphagnum peat moss for general commercial use. PRO-MOSS 'TBK' provides a high degree of water retention and air porosity for a wide range of applications. Ideal for use as a major component in horticultural growing media and mushroom casing materials which require high fibrosity.

PRODUCTION FACILITY: Carrot River (Saskatchewan), Canada

PACKAGE SPECIFICATIONS:

Code	Size (cu.ft.)	Packing	Weight (lb)	Minimum Yield (cu.ft.)
0010P	55	2/pallet	850 - 1050	113.0
0060P	3.8	30/pallet	55-70	7.6

LABORATORY ANALYSIS*

CHEMICAL CHARACTERISTICS:

pH:	3.8 - 4.8 (1:3, v:v water)
Electrical Conductivity:	0.09 - 0.13 mmhos/cm
C/N Ratio:	125 - 135
Cation Exchange Capacity:	150 - 250 meq/100 g
Organic Matter:	95 - 99 %
Ash Content:	1 - 5 %

PHYSICAL CHARACTERISTICS:

Total Porosity:	96 - 97 %
Dry Bulk Density:	3 - 4.5 Lbs./cu.ft. (0.05 - 0.07 g/cm ³)
Fresh Bulk Density:	6 - 8 Lbs./cu.ft. (0.10 - 0.13 g/cm ³)
Water-Holding Capacity:	1200 - 1500 % by weight
Moisture Content:	40 - 55 % (Fresh Basis)

DRY GRANULOMETRY:

<u>Mesh Size</u>	<u>% Passing</u>
10 mesh:	70 - 80 %
20 mesh:	50 - 65 %
50 mesh:	20 - 35 %
100 mesh:	8 - 18 %

* This data is for information purposes only. Peat moss is a natural product; therefore, results for individual samples may vary to a limited degree.

Material Safety Data Sheet

Date Revised: 7/9/02

I. Product Information

Trade Name: CSF Leaf® Media
Manufacturer: CONTECH Stormwater Solutions, Inc. Tel: 800.548.4667
12021-B NE Airport Way Fax: 800.561.1271
Portland, OR 97220 Int: www.contechstormwater.com

II. Product Ingredients

Ingredient Name	CAS #	%	OSHA PEL (mg/m³)	ACGIH TLV (mg/m³)
Earth-Wise Certified Compost	N/A	100	15	10

Associated dust may be considered "nuisance dust" or "particulates not otherwise classified" (PNOC)

III. Physical/Chemical Characteristics

Boiling Point (C°):	N/A	Specific Gravity (H₂O= 1):	> 1 (granules)
Vapor Pressure (mm Hg):	N/A	Melting Point (C°):	N/A
Vapor Density (Air = 1):	N/A	Evaporation Rate:	N/A
Solubility (%):	Negligible	Appearance/Odor:	Brown granules/earthy
pH:	5 to 8	Dust content (%):	< 1

IV. Fire and Explosion Hazard Data

Flash Point:	N/A	Special Fire Fighting Procedures:	N/A
Flammable Limits (LEL/UEL):	N/A / N/A	Unusual Fire/Explosion Hazards:	N/A
Extinguishing Media:	N/A		

V. Reactivity Data

Stability:	Stable	Conditions to Avoid:	NONE
Chemical Incompatibilities:	NONE	Haz. Decomposition Products:	NONE
Hazardous Polymerization:	N/A		

VI. Health Hazard Data

Route(s) of Entry: Inhalation
Acute Health Hazards: Upper respiratory irritant
Chronic Health Hazards: NOT KNOWN
Carcinogenicity: NO (NTP, IARC Monographs, OSHA regulated)
Signs/Symptoms of Exposure: Upper respiratory and eye irritation
Medical Conditions Generally Aggravated by Exposure: Pre-existing upper respiratory and lung conditions
Inhalation: remove to fresh air

Emergency/First Aid Procedures: Eyes: flush with water, seek physician if irritation persists

VII. Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Sweep up using dust suppressant such as water. Uncontaminated material may be reused.

Waste Disposal Method: Unused material is non-hazardous, dispose of in landfill according to federal, state, and local regulations

Precautions to be taken in handling and storage: NONE

Other Precautions: NONE

VIII. Control Measures

Respiratory Protection: MSHA/NIOSH approved respirator
Ventilation: Handle outdoors
Gloves: Not required
Eyes: Goggles or Safety Glasses
Other Clothing or Equipment: NONE
Work/Hygienic Practices: NONE

All information, recommendations and suggestions herein concerning this product are based upon data believed to be reliable. However, it is the users responsibility to determine the safety, toxicity, and suitability for his own use of this product. Since the actual use of others is beyond our control, we make no guarantee, expressed or implied, as to the effects of such use, the results to be obtained, or the safety and toxicity of the product. This information is not to be construed as absolutely complete, since additional information may be necessary or desirable when exceptional conditions of circumstances exist, or because of applicable laws or government regulations.