

LABORATORY REPORT

Prepared For: WGR Southwest, Inc. - Lodi
315 W. Pine Street, Suite 8
Lodi, CA 95240
Attention: John Teravskis

Project: BP Carson LVW
021.APC.00

Sampled: 04/11/07
Received: 04/11/07
Revised: 06/20/07 08:52

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 BPGCLN Technical Specifications, applicable federal, state, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. 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: Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.

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: Results for EPA 8260B-Acrolein, Acrylonitrile and 2-Chloroethyl vinylether could not be reported due to need for unpreserved VOA vials which were not received. Results for EPA 8081/8082 OC-Pesticides and PCBs could not be reported due to need for additional 1-liter amber glass bottle that was not received. This report was revised on 6/20/07 to include analysts' initials.

LABORATORY ID

IQD1038-01
IQD1038-02
IQD1038-03

CLIENT ID

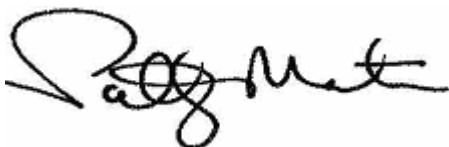
Outfall #23 LVW
Receiving Water A
Receiving Water B

MATRIX

Water
Water
Water

I certify under penalty of perjury that the information contained in this report and all attachments was produced in accordance with the indicated methods and laboratory standard operating procedures, except as noted, and are complete and accurate to the best of my knowledge and belief.

Reviewed By:



TestAmerica - Irvine, CA
Patty Mata
Project Manager

WGR Southwest, Inc. - Lodi
315 W. Pine Street, Suite 8
Lodi, CA 95240
Attention: John Teravskis

Project ID: BP Carson LVW
021.APC.00
Report Number: IQD1038

Sampled: 04/11/07
Received: 04/11/07

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Analyst	Date Analyzed	Data Qualifiers
Sample ID: IQD1038-01 (Outfall #23 LVW - Water)									
Reporting Units: ug/l									
Benzene	EPA 8260B	7D17005	0.28	0.50	ND	1	NL	04/17/07	
Bromobenzene	EPA 8260B	7D17005	0.27	1.0	ND	1	NL	04/17/07	
Bromochloromethane	EPA 8260B	7D17005	0.32	1.0	ND	1	NL	04/17/07	
Bromodichloromethane	EPA 8260B	7D17005	0.30	1.0	ND	1	NL	04/17/07	
Bromoform	EPA 8260B	7D17005	0.40	1.0	ND	1	NL	04/17/07	
Bromomethane	EPA 8260B	7D17005	0.42	1.0	ND	1	NL	04/17/07	
n-Butylbenzene	EPA 8260B	7D17005	0.37	1.0	ND	1	NL	04/17/07	
sec-Butylbenzene	EPA 8260B	7D17005	0.25	1.0	ND	1	NL	04/17/07	
tert-Butylbenzene	EPA 8260B	7D17005	0.22	1.0	ND	1	NL	04/17/07	
Carbon tetrachloride	EPA 8260B	7D17005	0.28	0.50	ND	1	NL	04/17/07	
Chlorobenzene	EPA 8260B	7D17005	0.36	1.0	ND	1	NL	04/17/07	
Chloroethane	EPA 8260B	7D17005	0.40	1.0	ND	1	NL	04/17/07	
Chloroform	EPA 8260B	7D17005	0.33	1.0	ND	1	NL	04/17/07	
Chloromethane	EPA 8260B	7D17005	0.40	1.0	ND	1	NL	04/17/07	
2-Chlorotoluene	EPA 8260B	7D17005	0.28	1.0	ND	1	NL	04/17/07	
4-Chlorotoluene	EPA 8260B	7D17005	0.29	1.0	ND	1	NL	04/17/07	
Dibromochloromethane	EPA 8260B	7D17005	0.28	1.0	ND	1	NL	04/17/07	
1,2-Dibromo-3-chloropropane	EPA 8260B	7D17005	0.97	5.0	ND	1	NL	04/17/07	
1,2-Dibromoethane (EDB)	EPA 8260B	7D17005	0.40	1.0	ND	1	NL	04/17/07	
Dibromomethane	EPA 8260B	7D17005	0.36	1.0	ND	1	NL	04/17/07	
1,2-Dichlorobenzene	EPA 8260B	7D17005	0.32	1.0	ND	1	NL	04/17/07	
1,3-Dichlorobenzene	EPA 8260B	7D17005	0.35	1.0	ND	1	NL	04/17/07	
1,4-Dichlorobenzene	EPA 8260B	7D17005	0.37	1.0	ND	1	NL	04/17/07	
Dichlorodifluoromethane	EPA 8260B	7D17005	0.79	5.0	ND	1	NL	04/17/07	
1,1-Dichloroethane	EPA 8260B	7D17005	0.27	1.0	ND	1	NL	04/17/07	
1,2-Dichloroethane	EPA 8260B	7D17005	0.28	0.50	ND	1	NL	04/17/07	
1,1-Dichloroethene	EPA 8260B	7D17005	0.42	1.0	ND	1	NL	04/17/07	
cis-1,2-Dichloroethene	EPA 8260B	7D17005	0.32	1.0	ND	1	NL	04/17/07	
trans-1,2-Dichloroethene	EPA 8260B	7D17005	0.27	1.0	ND	1	NL	04/17/07	
1,2-Dichloropropane	EPA 8260B	7D17005	0.35	1.0	ND	1	NL	04/17/07	
1,3-Dichloropropane	EPA 8260B	7D17005	0.32	1.0	ND	1	NL	04/17/07	
2,2-Dichloropropane	EPA 8260B	7D17005	0.34	1.0	ND	1	NL	04/17/07	
1,1-Dichloropropene	EPA 8260B	7D17005	0.28	1.0	ND	1	NL	04/17/07	
cis-1,3-Dichloropropene	EPA 8260B	7D17005	0.22	0.50	ND	1	NL	04/17/07	
trans-1,3-Dichloropropene	EPA 8260B	7D17005	0.32	0.50	ND	1	NL	04/17/07	
Ethylbenzene	EPA 8260B	7D17005	0.25	1.0	ND	1	NL	04/17/07	
Hexachlorobutadiene	EPA 8260B	7D17005	0.38	1.0	ND	1	NL	04/17/07	
Isopropylbenzene	EPA 8260B	7D17005	0.25	1.0	ND	1	NL	04/17/07	

TestAmerica - Irvine, CA
Patty Mata
Project Manager

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021.APC.00
Report Number: IQD1038

Sampled: 04/11/07
Received: 04/11/07

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Analyst	Date Analyzed	Data Qualifiers
Sample ID: IQD1038-01 (Outfall #23 LVW - Water) - cont.									
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	7D17005	0.28	1.0	ND	1	NL	04/17/07	
Methylene chloride	EPA 8260B	7D17005	0.95	5.0	ND	1	NL	04/17/07	
Naphthalene	EPA 8260B	7D17005	0.41	1.0	ND	1	NL	04/17/07	
n-Propylbenzene	EPA 8260B	7D17005	0.27	1.0	ND	1	NL	04/17/07	
Styrene	EPA 8260B	7D17005	0.16	1.0	ND	1	NL	04/17/07	
1,1,1,2-Tetrachloroethane	EPA 8260B	7D17005	0.27	1.0	ND	1	NL	04/17/07	
1,1,2,2-Tetrachloroethane	EPA 8260B	7D17005	0.24	1.0	ND	1	NL	04/17/07	
Tetrachloroethene	EPA 8260B	7D17005	0.32	1.0	ND	1	NL	04/17/07	
Toluene	EPA 8260B	7D17005	0.36	1.0	ND	1	NL	04/17/07	
1,2,3-Trichlorobenzene	EPA 8260B	7D17005	0.30	1.0	ND	1	NL	04/17/07	
1,2,4-Trichlorobenzene	EPA 8260B	7D17005	0.48	1.0	ND	1	NL	04/17/07	
1,1,1-Trichloroethane	EPA 8260B	7D17005	0.30	1.0	ND	1	NL	04/17/07	
1,1,2-Trichloroethane	EPA 8260B	7D17005	0.30	1.0	ND	1	NL	04/17/07	
Trichloroethene	EPA 8260B	7D17005	0.26	1.0	ND	1	NL	04/17/07	
Trichlorofluoromethane	EPA 8260B	7D17005	0.34	1.0	ND	1	NL	04/17/07	
1,2,3-Trichloropropane	EPA 8260B	7D17005	0.40	1.0	ND	1	NL	04/17/07	
1,2,4-Trimethylbenzene	EPA 8260B	7D17005	0.23	1.0	ND	1	NL	04/17/07	
1,3,5-Trimethylbenzene	EPA 8260B	7D17005	0.26	1.0	ND	1	NL	04/17/07	
Vinyl chloride	EPA 8260B	7D17005	0.30	0.50	ND	1	NL	04/17/07	
o-Xylene	EPA 8260B	7D17005	0.30	1.0	ND	1	NL	04/17/07	
m,p-Xylenes	EPA 8260B	7D17005	0.60	1.0	ND	1	NL	04/17/07	
Surrogate: Dibromofluoromethane (80-120%)					94 %				
Surrogate: Toluene-d8 (80-120%)					103 %				
Surrogate: 4-Bromofluorobenzene (80-120%)					91 %				

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IQD1038 <Page 3 of 43>

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Sampled: 04/11/07
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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Analyst	Date Analyzed	Data Qualifiers
Sample ID: IQD1038-01 (Outfall #23 LVW - Water) - cont.									
Reporting Units: ug/l									
Acenaphthene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
Acenaphthylene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
Aniline	EPA 8270C	7D13072	2.4	9.7	ND	0.971	AMI	04/16/07	
Anthracene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
Benzidine	EPA 8270C	7D13072	8.3	19	ND	0.971	AMI	04/16/07	
Benzoic acid	EPA 8270C	7D13072	8.3	19	ND	0.971	AMI	04/16/07	
Benzo(a)anthracene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
Benzo(b)fluoranthene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	L
Benzo(k)fluoranthene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	L
Benzo(g,h,i)perylene	EPA 8270C	7D13072	2.9	9.7	ND	0.971	AMI	04/16/07	L
Benzo(a)pyrene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	L
Benzyl alcohol	EPA 8270C	7D13072	2.4	19	ND	0.971	AMI	04/16/07	
Bis(2-chloroethoxy)methane	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
Bis(2-chloroethyl)ether	EPA 8270C	7D13072	2.4	9.7	ND	0.971	AMI	04/16/07	
Bis(2-chloroisopropyl)ether	EPA 8270C	7D13072	2.4	9.7	ND	0.971	AMI	04/16/07	C-2
Bis(2-ethylhexyl)phthalate	EPA 8270C	7D13072	3.9	49	ND	0.971	AMI	04/16/07	
4-Bromophenyl phenyl ether	EPA 8270C	7D13072	2.4	9.7	ND	0.971	AMI	04/16/07	
Butyl benzyl phthalate	EPA 8270C	7D13072	3.9	19	ND	0.971	AMI	04/16/07	
4-Chloroaniline	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
2-Chloronaphthalene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
4-Chloro-3-methylphenol	EPA 8270C	7D13072	1.9	19	ND	0.971	AMI	04/16/07	
2-Chlorophenol	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
4-Chlorophenyl phenyl ether	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
Chrysene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
Dibenz(a,h)anthracene	EPA 8270C	7D13072	2.9	19	ND	0.971	AMI	04/16/07	L
Dibenzofuran	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
Di-n-butyl phthalate	EPA 8270C	7D13072	1.9	19	ND	0.971	AMI	04/16/07	
1,3-Dichlorobenzene	EPA 8270C	7D13072	2.9	9.7	ND	0.971	AMI	04/16/07	
1,4-Dichlorobenzene	EPA 8270C	7D13072	2.4	9.7	ND	0.971	AMI	04/16/07	
1,2-Dichlorobenzene	EPA 8270C	7D13072	2.9	9.7	ND	0.971	AMI	04/16/07	
3,3-Dichlorobenzidine	EPA 8270C	7D13072	2.9	19	ND	0.971	AMI	04/16/07	
2,4-Dichlorophenol	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
Diethyl phthalate	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
2,4-Dimethylphenol	EPA 8270C	7D13072	3.4	19	ND	0.971	AMI	04/16/07	
Dimethyl phthalate	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
4,6-Dinitro-2-methylphenol	EPA 8270C	7D13072	3.9	19	ND	0.971	AMI	04/16/07	
2,4-Dinitrophenol	EPA 8270C	7D13072	4.4	19	ND	0.971	AMI	04/16/07	
2,4-Dinitrotoluene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
2,6-Dinitrotoluene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
Di-n-octyl phthalate	EPA 8270C	7D13072	1.9	19	ND	0.971	AMI	04/16/07	
Fluoranthene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	

TestAmerica - Irvine, CA
Patty Mata
Project Manager

WGR Southwest, Inc. - Lodi
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Project ID: BP Carson LVW
021.APC.00
Report Number: IQD1038

Sampled: 04/11/07
Received: 04/11/07

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Analyst	Date Analyzed	Data Qualifiers
Sample ID: IQD1038-01 (Outfall #23 LVW - Water) - cont.									
Reporting Units: ug/l									
Fluorene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
Hexachlorobenzene	EPA 8270C	7D13072	2.4	9.7	ND	0.971	AMI	04/16/07	
Hexachlorobutadiene	EPA 8270C	7D13072	3.4	9.7	ND	0.971	AMI	04/16/07	
Hexachlorocyclopentadiene	EPA 8270C	7D13072	4.9	19	ND	0.971	AMI	04/16/07	
Hexachloroethane	EPA 8270C	7D13072	2.9	9.7	ND	0.971	AMI	04/16/07	
Indeno(1,2,3-cd)pyrene	EPA 8270C	7D13072	2.9	19	ND	0.971	AMI	04/16/07	L
Isophorone	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
2-Methylnaphthalene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
2-Methylphenol	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
4-Methylphenol	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
Naphthalene	EPA 8270C	7D13072	2.4	9.7	ND	0.971	AMI	04/16/07	
2-Nitroaniline	EPA 8270C	7D13072	1.9	19	ND	0.971	AMI	04/16/07	
3-Nitroaniline	EPA 8270C	7D13072	1.9	19	ND	0.971	AMI	04/16/07	
4-Nitroaniline	EPA 8270C	7D13072	2.4	19	ND	0.971	AMI	04/16/07	
Nitrobenzene	EPA 8270C	7D13072	2.4	19	ND	0.971	AMI	04/16/07	
2-Nitrophenol	EPA 8270C	7D13072	3.4	9.7	ND	0.971	AMI	04/16/07	
4-Nitrophenol	EPA 8270C	7D13072	5.3	19	ND	0.971	AMI	04/16/07	
N-Nitrosodiphenylamine	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
N-Nitroso-di-n-propylamine	EPA 8270C	7D13072	2.4	9.7	ND	0.971	AMI	04/16/07	
Pentachlorophenol	EPA 8270C	7D13072	3.4	19	ND	0.971	AMI	04/16/07	
Phenanthrene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
Phenol	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
Pyrene	EPA 8270C	7D13072	1.9	9.7	ND	0.971	AMI	04/16/07	
1,2,4-Trichlorobenzene	EPA 8270C	7D13072	2.4	9.7	ND	0.971	AMI	04/16/07	
2,4,5-Trichlorophenol	EPA 8270C	7D13072	2.9	19	ND	0.971	AMI	04/16/07	
2,4,6-Trichlorophenol	EPA 8270C	7D13072	2.9	19	ND	0.971	AMI	04/16/07	
1,2-Diphenylhydrazine/Azobenzene	EPA 8270C	7D13072	1.9	19	ND	0.971	AMI	04/16/07	
Surrogate: 2-Fluorophenol (30-120%)					59 %				
Surrogate: Phenol-d6 (35-120%)					69 %				
Surrogate: 2,4,6-Tribromophenol (40-120%)					81 %				
Surrogate: Nitrobenzene-d5 (40-120%)					70 %				
Surrogate: 2-Fluorobiphenyl (45-120%)					84 %				
Surrogate: Terphenyl-d14 (45-120%)					81 %				

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Project Manager

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IQD1038 <Page 5 of 43>

WGR Southwest, Inc. - Lodi
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Attention: John Teravskis

Project ID: BP Carson LVW
021.APC.00
Report Number: IQD1038

Sampled: 04/11/07
Received: 04/11/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Analyst	Date Analyzed	Data Qualifiers
Sample ID: IQD1038-01 (Outfall #23 LVW - Water) - cont.									
Reporting Units: mg/l									
Antimony	EPA 200.7	7D12113	0.0070	0.010	ND	1	AJ	04/12/07	
Arsenic	EPA 200.7	7D12113	0.0070	0.010	0.0081	1	AJ	04/12/07	J
Beryllium	EPA 200.7	7D12113	0.00090	0.0020	ND	1	AJ	04/12/07	
Cadmium	EPA 200.7	7D12113	0.0020	0.0050	ND	1	MN	04/13/07	
Chromium	EPA 200.7	7D12113	0.0020	0.0050	ND	1	AJ	04/12/07	
Copper	EPA 200.7	7D12113	0.0030	0.010	0.0060	1	AJ	04/12/07	J
Lead	EPA 200.7	7D12113	0.0030	0.0050	0.0058	1	AJ	04/12/07	
Mercury	EPA 245.1	7D19073	0.00010	0.00020	ND	1	SN	04/19/07	
Nickel	EPA 200.7	7D12113	0.0020	0.010	0.011	1	AJ	04/12/07	
Selenium	EPA 200.7	7D12113	0.0080	0.010	ND	1	AJ	04/12/07	
Silver	EPA 200.7	7D12113	0.0060	0.010	ND	1	AJ	04/12/07	
Thallium	EPA 200.7	7D12113	0.0070	0.010	ND	1	AJ	04/12/07	
Zinc	EPA 200.7	7D12113	0.0040	0.020	0.58	1	MN	04/13/07	

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Sampled: 04/11/07
Received: 04/11/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Analyst	Date Analyzed	Data Qualifiers
Sample ID: IQD1038-02 (Receiving Water A - Water)									
Reporting Units: g/l									
Salinity	EPA 120.1	7D17119	N/A	0.10	34	1	DC	04/17/07	
Sample ID: IQD1038-03 (Receiving Water B - Water)									
Reporting Units: g/l									
Salinity	EPA 120.1	7D17119	N/A	0.10	32	1	DC	04/17/07	
Sample ID: IQD1038-01 (Outfall #23 LVW - Water)									
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664	7D18095	1.3	4.8	2.0	1	MW	04/18/07	J
Biochemical Oxygen Demand	EPA 405.1	7D12073	0.59	2.0	48	1	DL	04/17/07	K-1
Total Cyanide	SM4500-CN-C,E	7D12110	0.0022	0.0050	0.027	1	SLa	04/13/07	
Hardness (as CaCO3)	EPA 130.2	7D23061	4.0	4.0	400	1	KYP	04/23/07	
Residual Chlorine	EPA 330.5	7D12056	0.10	0.10	ND	1	DL	04/12/07	HFT
Sulfide	EPA 376.2	7D16094	0.020	0.10	0.043	1	TTW	04/16/07	J
Surfactants (MBAS)	EPA 425.1	7D11137	0.044	0.10	0.22	1	EC	04/11/07	
Total Organic Carbon	EPA 415.1	7D19126	2.5	5.0	55	5	K	04/19/07	
Total Suspended Solids	EPA 160.2	7D17133	10	10	ND	1	EC	04/17/07	
Sample ID: IQD1038-02 (Receiving Water A - Water)									
Reporting Units: mg/l									
Hardness (as CaCO3)	EPA 130.2	7D23061	4.0	4.0	5500	1	KYP	04/23/07	
Sample ID: IQD1038-03 (Receiving Water B - Water)									
Reporting Units: mg/l									
Ammonia-N (Distilled)	SM4500NH3-D	7D19110	0.22	1.0	1.9	1	RW	04/19/07	
Dissolved Oxygen	EPA 360.1	7D12058	1.0	1.0	7.9	1	DL	04/12/07	HFT
Nitrate-N	EPA 300.0	7D11051	6.0	11	ND	100	ino	04/11/07	
Sample ID: IQD1038-01 (Outfall #23 LVW - Water)									
Reporting Units: ml/l/hr									
Total Settleable Solids	EPA 160.5	7D11130	0.10	0.10	ND	1	dp	04/11/07	
Sample ID: IQD1038-01 (Outfall #23 LVW - Water)									
Reporting Units: NTU									
Turbidity	EPA 180.1	7D12118	0.040	1.0	0.58	1	dp	04/12/07	J
Sample ID: IQD1038-01 (Outfall #23 LVW - Water)									
Reporting Units: pH Units									
pH	EPA 150.1	7D11129	0.00	NA	7.50	1	dp	04/11/07	HFT

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Patty Mata
Project Manager

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IQD1038 <Page 7 of 43>

WGR Southwest, Inc. - Lodi
315 W. Pine Street, Suite 8
Lodi, CA 95240
Attention: John Teravskis

Project ID: BP Carson LVW
021.APC.00
Report Number: IQD1038

Sampled: 04/11/07
Received: 04/11/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Analyst	Date Analyzed	Data Qualifiers
Sample ID: IQD1038-02 (Receiving Water A - Water)									
Reporting Units: pH Units									
pH	EPA 150.1	7D11129	0.00	NA	7.91	1	dp	04/11/07	HFT
Sample ID: IQD1038-03 (Receiving Water B - Water)									
Reporting Units: pH Units									
pH	EPA 150.1	7D11129	0.00	NA	7.91	1	dp	04/11/07	HFT

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021.APC.00
Report Number: IQD1038

Sampled: 04/11/07
Received: 04/11/07

Organotin Compounds by GC - FPD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Analyst	Date Analyzed	Data Qualifiers
Sample ID: IQD1038-01 (Outfall #23 LVW - Water)									
Reporting Units: ug/l									
Tributyltin	GC - FPD	7041701	0.004	0.005	ND	1	FM	04/19/07	
Dibutyltin	GC - FPD	7041701	0.007	0.020	ND	1	FM	04/19/07	
Monobutyltin	GC - FPD	7041701	0.012	0.020	ND	1	FM	04/19/07	
<i>Surrogate: Triphenyltin (71-128%)</i>					87 %				
<i>Surrogate: Tri-n-propyltin (67-130%)</i>					86 %				

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IQD1038 <Page 9 of 43>

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315 W. Pine Street, Suite 8
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021.APC.00
Report Number: IQD1038

Sampled: 04/11/07
Received: 04/11/07

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 3520C/8310)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Analyst	Date Analyzed	Data Qualifiers
Sample ID: IQD1038-01 (Outfall #23 LVW - Water) - cont.									
Reporting Units: ug/l									
Acenaphthene	EPA 8310	P7D1716	0.13	1.0	ND	0.966	ds	04/23/07	
Acenaphthylene	EPA 8310	P7D1716	0.40	1.0	ND	0.966	ds	04/23/07	
Anthracene	EPA 8310	P7D1716	0.0083	0.050	ND	0.966	ds	04/23/07	
Benzo(a)anthracene	EPA 8310	P7D1716	0.015	0.050	ND	0.966	ds	04/23/07	
Benzo(a)pyrene	EPA 8310	P7D1716	0.018	0.050	ND	0.966	ds	04/23/07	
Benzo(b)fluoranthene	EPA 8310	P7D1716	0.014	0.10	ND	0.966	ds	04/23/07	
Benzo(g,h,i)perylene	EPA 8310	P7D1716	0.034	0.10	ND	0.966	ds	04/23/07	
Benzo(k)fluoranthene	EPA 8310	P7D1716	0.019	0.050	ND	0.966	ds	04/23/07	
Chrysene	EPA 8310	P7D1716	0.0056	0.10	ND	0.966	ds	04/23/07	
Dibenz(a,h)anthracene	EPA 8310	P7D1716	0.011	0.10	ND	0.966	ds	04/23/07	
Fluoranthene	EPA 8310	P7D1716	0.031	0.10	ND	0.966	ds	04/23/07	
Fluorene	EPA 8310	P7D1716	0.028	0.10	ND	0.966	ds	04/23/07	
Indeno(1,2,3-cd)pyrene	EPA 8310	P7D1716	0.021	0.10	ND	0.966	ds	04/23/07	
Naphthalene	EPA 8310	P7D1716	0.31	0.50	ND	0.966	ds	04/23/07	
Phenanthrene	EPA 8310	P7D1716	0.020	0.10	0.041	0.966	ds	04/23/07	J
Pyrene	EPA 8310	P7D1716	0.025	0.10	0.051	0.966	ds	04/23/07	R-1, J
<i>Surrogate: 2-Methylantracene (50-115%)</i>					94 %				

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IQD1038 <Page 10 of 43>

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315 W. Pine Street, Suite 8
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Attention: John Teravskis

Project ID: BP Carson LVW
021.APC.00
Report Number: IQD1038

Sampled: 04/11/07
Received: 04/11/07

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall #23 LVW (IQD1038-01) - Water					
EPA 150.1	1	04/11/2007 07:50	04/11/2007 12:30	04/11/2007 15:40	04/11/2007 16:25
EPA 160.5	2	04/11/2007 07:50	04/11/2007 12:30	04/11/2007 15:40	04/11/2007 15:40
EPA 180.1	2	04/11/2007 07:50	04/11/2007 12:30	04/12/2007 13:30	04/12/2007 14:45
EPA 330.5	1	04/11/2007 07:50	04/11/2007 12:30	04/12/2007 07:05	04/12/2007 07:05
EPA 405.1	2	04/11/2007 07:50	04/11/2007 12:30	04/12/2007 10:10	04/17/2007 08:25
EPA 425.1	2	04/11/2007 07:50	04/11/2007 12:30	04/11/2007 16:50	04/11/2007 17:13
Sample ID: Receiving Water A (IQD1038-02) - Water					
EPA 150.1	1	04/11/2007 08:20	04/11/2007 12:30	04/11/2007 15:40	04/11/2007 16:25
Sample ID: Receiving Water B (IQD1038-03) - Water					
EPA 150.1	1	04/11/2007 08:35	04/11/2007 12:30	04/11/2007 15:40	04/11/2007 16:25
EPA 300.0	2	04/11/2007 08:35	04/11/2007 12:30	04/11/2007 19:30	04/11/2007 19:47
EPA 360.1	1	04/11/2007 08:35	04/11/2007 12:30	04/12/2007 07:00	04/12/2007 07:00

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Project ID: BP Carson LVW
021.APC.00
Report Number: IQD1038

Sampled: 04/11/07
Received: 04/11/07

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: 7D17005 Extracted: 04/17/07										
Blank Analyzed: 04/17/2007 (7D17005-BLK1)										
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							

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Project ID: BP Carson LVW
021.APC.00
Report Number: IQD1038

Sampled: 04/11/07
Received: 04/11/07

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: 7D17005 Extracted: 04/17/07										
Blank Analyzed: 04/17/2007 (7D17005-BLK1)										
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	24.5		ug/l	25.0		98	80-120			
Surrogate: Toluene-d8	25.7		ug/l	25.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	23.4		ug/l	25.0		94	80-120			

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Sampled: 04/11/07
Received: 04/11/07

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: 7D17005 Extracted: 04/17/07										
LCS Analyzed: 04/17/2007 (7D17005-BS1)										
Benzene	24.6	0.50	ug/l	25.0		98	70-120			
Bromobenzene	25.4	1.0	ug/l	25.0		102	75-120			
Bromochloromethane	24.7	1.0	ug/l	25.0		99	70-130			
Bromodichloromethane	27.4	1.0	ug/l	25.0		110	70-135			
Bromoform	25.1	1.0	ug/l	25.0		100	55-130			
Bromomethane	27.1	1.0	ug/l	25.0		108	65-140			
n-Butylbenzene	27.7	1.0	ug/l	25.0		111	70-130			
sec-Butylbenzene	26.4	1.0	ug/l	25.0		106	70-125			
tert-Butylbenzene	26.3	1.0	ug/l	25.0		105	70-125			
Carbon tetrachloride	28.3	0.50	ug/l	25.0		113	65-140			
Chlorobenzene	25.4	1.0	ug/l	25.0		102	75-120			
Chloroethane	24.0	1.0	ug/l	25.0		96	60-140			
Chloroform	25.8	1.0	ug/l	25.0		103	70-130			
Chloromethane	27.2	1.0	ug/l	25.0		109	50-140			
2-Chlorotoluene	25.5	1.0	ug/l	25.0		102	70-125			
4-Chlorotoluene	26.2	1.0	ug/l	25.0		105	75-125			
Dibromochloromethane	29.8	1.0	ug/l	25.0		119	70-140			
1,2-Dibromo-3-chloropropane	26.9	5.0	ug/l	25.0		108	50-135			
1,2-Dibromoethane (EDB)	26.5	1.0	ug/l	25.0		106	75-125			
Dibromomethane	26.0	1.0	ug/l	25.0		104	70-125			
1,2-Dichlorobenzene	26.2	1.0	ug/l	25.0		105	75-120			
1,3-Dichlorobenzene	26.5	1.0	ug/l	25.0		106	75-120			
1,4-Dichlorobenzene	24.9	1.0	ug/l	25.0		100	75-120			
Dichlorodifluoromethane	31.0	5.0	ug/l	25.0		124	35-155			
1,1-Dichloroethane	24.4	1.0	ug/l	25.0		98	70-125			
1,2-Dichloroethane	27.6	0.50	ug/l	25.0		110	60-140			
1,1-Dichloroethene	22.2	1.0	ug/l	25.0		89	70-125			
cis-1,2-Dichloroethene	25.0	1.0	ug/l	25.0		100	70-125			
trans-1,2-Dichloroethene	25.1	1.0	ug/l	25.0		100	70-125			
1,2-Dichloropropane	24.8	1.0	ug/l	25.0		99	70-125			
1,3-Dichloropropane	26.4	1.0	ug/l	25.0		106	70-120			
2,2-Dichloropropane	27.8	1.0	ug/l	25.0		111	65-140			
1,1-Dichloropropene	25.4	1.0	ug/l	25.0		102	75-130			
cis-1,3-Dichloropropene	24.9	0.50	ug/l	25.0		100	75-125			
trans-1,3-Dichloropropene	25.7	0.50	ug/l	25.0		103	70-125			

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Project ID: BP Carson LVW
021.APC.00
Report Number: IQD1038

Sampled: 04/11/07
Received: 04/11/07

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: 7D17005 Extracted: 04/17/07										
LCS Analyzed: 04/17/2007 (7D17005-BS1)										
Ethylbenzene	27.4	1.0	ug/l	25.0		110	75-125			
Hexachlorobutadiene	27.4	1.0	ug/l	25.0		110	65-135			
Isopropylbenzene	29.5	1.0	ug/l	25.0		118	75-130			
p-Isopropyltoluene	27.7	1.0	ug/l	25.0		111	75-125			
Methylene chloride	21.8	5.0	ug/l	25.0		87	55-130			
Naphthalene	27.1	1.0	ug/l	25.0		108	55-135			
n-Propylbenzene	27.9	1.0	ug/l	25.0		112	75-130			
Styrene	27.6	1.0	ug/l	25.0		110	75-130			
1,1,1,2-Tetrachloroethane	27.3	1.0	ug/l	25.0		109	70-130			
1,1,2,2-Tetrachloroethane	25.8	1.0	ug/l	25.0		103	55-130			
Tetrachloroethene	26.5	1.0	ug/l	25.0		106	70-125			
Toluene	26.1	1.0	ug/l	25.0		104	70-120			
1,2,3-Trichlorobenzene	28.4	1.0	ug/l	25.0		114	65-125			
1,2,4-Trichlorobenzene	27.9	1.0	ug/l	25.0		112	70-135			
1,1,1-Trichloroethane	26.3	1.0	ug/l	25.0		105	65-135			
1,1,2-Trichloroethane	25.7	1.0	ug/l	25.0		103	70-125			
Trichloroethene	26.4	1.0	ug/l	25.0		106	70-125			
Trichlorofluoromethane	28.4	1.0	ug/l	25.0		114	65-145			
1,2,3-Trichloropropane	26.1	1.0	ug/l	25.0		104	60-130			
1,2,4-Trimethylbenzene	27.4	1.0	ug/l	25.0		110	75-125			
1,3,5-Trimethylbenzene	27.4	1.0	ug/l	25.0		110	75-125			
Vinyl chloride	27.2	0.50	ug/l	25.0		109	55-135			
o-Xylene	26.5	1.0	ug/l	25.0		106	75-125			
m,p-Xylenes	54.0	1.0	ug/l	50.0		108	75-125			
Surrogate: Dibromofluoromethane	24.9		ug/l	25.0		100	80-120			
Surrogate: Toluene-d8	26.1		ug/l	25.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	24.8		ug/l	25.0		99	80-120			

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Report Number: IQD1038

Sampled: 04/11/07
Received: 04/11/07

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: 7D17005 Extracted: 04/17/07										
Matrix Spike Analyzed: 04/17/2007 (7D17005-MS1)					Source: IQD0920-01					
Benzene	23.5	0.50	ug/l	25.0	ND	94	65-125			
Bromobenzene	24.4	1.0	ug/l	25.0	ND	98	70-125			
Bromochloromethane	21.8	1.0	ug/l	25.0	ND	87	65-135			
Bromodichloromethane	24.6	1.0	ug/l	25.0	ND	98	70-135			
Bromoform	20.5	1.0	ug/l	25.0	ND	82	55-135			
Bromomethane	24.8	1.0	ug/l	25.0	ND	99	55-145			
n-Butylbenzene	27.1	1.0	ug/l	25.0	ND	108	65-135			
sec-Butylbenzene	26.0	1.0	ug/l	25.0	ND	104	70-125			
tert-Butylbenzene	25.8	1.0	ug/l	25.0	ND	103	65-130			
Carbon tetrachloride	26.9	0.50	ug/l	25.0	ND	108	65-140			
Chlorobenzene	24.8	1.0	ug/l	25.0	ND	99	75-125			
Chloroethane	22.4	1.0	ug/l	25.0	ND	90	55-140			
Chloroform	24.0	1.0	ug/l	25.0	ND	96	65-135			
Chloromethane	24.6	1.0	ug/l	25.0	ND	98	45-145			
2-Chlorotoluene	25.1	1.0	ug/l	25.0	ND	100	65-135			
4-Chlorotoluene	25.4	1.0	ug/l	25.0	ND	102	70-135			
Dibromochloromethane	25.6	1.0	ug/l	25.0	ND	102	65-140			
1,2-Dibromo-3-chloropropane	19.2	5.0	ug/l	25.0	ND	77	45-145			
1,2-Dibromoethane (EDB)	22.0	1.0	ug/l	25.0	ND	88	70-130			
Dibromomethane	21.5	1.0	ug/l	25.0	ND	86	65-135			
1,2-Dichlorobenzene	24.2	1.0	ug/l	25.0	ND	97	75-125			
1,3-Dichlorobenzene	25.0	1.0	ug/l	25.0	ND	100	75-125			
1,4-Dichlorobenzene	23.8	1.0	ug/l	25.0	ND	95	75-125			
Dichlorodifluoromethane	25.0	5.0	ug/l	25.0	ND	100	25-155			
1,1-Dichloroethane	23.3	1.0	ug/l	25.0	ND	93	65-130			
1,2-Dichloroethane	23.9	0.50	ug/l	25.0	ND	96	60-140			
1,1-Dichloroethene	20.9	1.0	ug/l	25.0	ND	84	60-130			
cis-1,2-Dichloroethene	24.0	1.0	ug/l	25.0	ND	96	65-130			
trans-1,2-Dichloroethene	24.0	1.0	ug/l	25.0	ND	96	65-130			
1,2-Dichloropropane	23.1	1.0	ug/l	25.0	ND	92	65-130			
1,3-Dichloropropane	22.5	1.0	ug/l	25.0	ND	90	65-135			
2,2-Dichloropropane	27.6	1.0	ug/l	25.0	ND	110	60-145			
1,1-Dichloropropene	24.5	1.0	ug/l	25.0	ND	98	70-135			
cis-1,3-Dichloropropene	22.5	0.50	ug/l	25.0	ND	90	70-130			
trans-1,3-Dichloropropene	22.0	0.50	ug/l	25.0	ND	88	65-135			

TestAmerica - Irvine, CA
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021.APC.00
Report Number: IQD1038

Sampled: 04/11/07
Received: 04/11/07

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: 7D17005 Extracted: 04/17/07										
Matrix Spike Analyzed: 04/17/2007 (7D17005-MS1)					Source: IQD0920-01					
Ethylbenzene	26.6	1.0	ug/l	25.0	ND	106	65-130			
Hexachlorobutadiene	26.8	1.0	ug/l	25.0	ND	107	60-135			
Isopropylbenzene	29.1	1.0	ug/l	25.0	ND	116	70-135			
p-Isopropyltoluene	27.2	1.0	ug/l	25.0	ND	109	65-130			
Methylene chloride	19.5	5.0	ug/l	25.0	ND	78	50-135			
Naphthalene	20.0	1.0	ug/l	25.0	ND	80	50-140			
n-Propylbenzene	27.5	1.0	ug/l	25.0	ND	110	70-135			
Styrene	26.4	1.0	ug/l	25.0	ND	106	50-145			
1,1,1,2-Tetrachloroethane	26.2	1.0	ug/l	25.0	ND	105	65-140			
1,1,2,2-Tetrachloroethane	19.8	1.0	ug/l	25.0	ND	79	55-135			
Tetrachloroethene	25.7	1.0	ug/l	25.0	ND	103	65-130			
Toluene	25.0	1.0	ug/l	25.0	ND	100	70-125			
1,2,3-Trichlorobenzene	23.7	1.0	ug/l	25.0	ND	95	60-135			
1,2,4-Trichlorobenzene	25.0	1.0	ug/l	25.0	ND	100	65-135			
1,1,1-Trichloroethane	25.0	1.0	ug/l	25.0	ND	100	65-140			
1,1,2-Trichloroethane	20.9	1.0	ug/l	25.0	ND	84	65-130			
Trichloroethene	24.8	1.0	ug/l	25.0	ND	99	65-125			
Trichlorofluoromethane	26.0	1.0	ug/l	25.0	ND	104	60-145			
1,2,3-Trichloropropane	19.8	1.0	ug/l	25.0	ND	79	55-135			
1,2,4-Trimethylbenzene	26.6	1.0	ug/l	25.0	ND	106	55-135			
1,3,5-Trimethylbenzene	27.0	1.0	ug/l	25.0	ND	108	70-130			
Vinyl chloride	24.8	0.50	ug/l	25.0	ND	99	45-140			
o-Xylene	25.7	1.0	ug/l	25.0	ND	103	65-125			
m,p-Xylenes	52.7	1.0	ug/l	50.0	ND	105	65-130			
Surrogate: Dibromofluoromethane	24.8		ug/l	25.0		99	80-120			
Surrogate: Toluene-d8	26.0		ug/l	25.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	25.2		ug/l	25.0		101	80-120			

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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: 7D17005 Extracted: 04/17/07										
Matrix Spike Dup Analyzed: 04/17/2007 (7D17005-MSD1)					Source: IQD0920-01					
Benzene	23.4	0.50	ug/l	25.0	ND	94	65-125	0	20	
Bromobenzene	25.0	1.0	ug/l	25.0	ND	100	70-125	2	20	
Bromochloromethane	22.4	1.0	ug/l	25.0	ND	90	65-135	3	25	
Bromodichloromethane	25.2	1.0	ug/l	25.0	ND	101	70-135	2	20	
Bromoform	23.0	1.0	ug/l	25.0	ND	92	55-135	11	25	
Bromomethane	25.0	1.0	ug/l	25.0	ND	100	55-145	1	25	
n-Butylbenzene	26.5	1.0	ug/l	25.0	ND	106	65-135	2	20	
sec-Butylbenzene	25.7	1.0	ug/l	25.0	ND	103	70-125	1	20	
tert-Butylbenzene	25.5	1.0	ug/l	25.0	ND	102	65-130	1	20	
Carbon tetrachloride	26.6	0.50	ug/l	25.0	ND	106	65-140	1	25	
Chlorobenzene	24.3	1.0	ug/l	25.0	ND	97	75-125	2	20	
Chloroethane	22.5	1.0	ug/l	25.0	ND	90	55-140	0	25	
Chloroform	23.6	1.0	ug/l	25.0	ND	94	65-135	2	20	
Chloromethane	24.4	1.0	ug/l	25.0	ND	98	45-145	1	25	
2-Chlorotoluene	24.8	1.0	ug/l	25.0	ND	99	65-135	1	20	
4-Chlorotoluene	25.5	1.0	ug/l	25.0	ND	102	70-135	0	20	
Dibromochloromethane	27.3	1.0	ug/l	25.0	ND	109	65-140	6	25	
1,2-Dibromo-3-chloropropane	22.8	5.0	ug/l	25.0	ND	91	45-145	17	30	
1,2-Dibromoethane (EDB)	24.1	1.0	ug/l	25.0	ND	96	70-130	9	25	
Dibromomethane	23.6	1.0	ug/l	25.0	ND	94	65-135	9	25	
1,2-Dichlorobenzene	25.2	1.0	ug/l	25.0	ND	101	75-125	4	20	
1,3-Dichlorobenzene	25.5	1.0	ug/l	25.0	ND	102	75-125	2	20	
1,4-Dichlorobenzene	23.9	1.0	ug/l	25.0	ND	96	75-125	0	20	
Dichlorodifluoromethane	24.8	5.0	ug/l	25.0	ND	99	25-155	1	30	
1,1-Dichloroethane	22.9	1.0	ug/l	25.0	ND	92	65-130	2	20	
1,2-Dichloroethane	25.0	0.50	ug/l	25.0	ND	100	60-140	4	20	
1,1-Dichloroethene	20.8	1.0	ug/l	25.0	ND	83	60-130	1	20	
cis-1,2-Dichloroethene	24.1	1.0	ug/l	25.0	ND	96	65-130	0	20	
trans-1,2-Dichloroethene	23.8	1.0	ug/l	25.0	ND	95	65-130	1	20	
1,2-Dichloropropane	23.4	1.0	ug/l	25.0	ND	94	65-130	1	20	
1,3-Dichloropropane	24.1	1.0	ug/l	25.0	ND	96	65-135	7	25	
2,2-Dichloropropane	26.8	1.0	ug/l	25.0	ND	107	60-145	3	25	
1,1-Dichloropropene	23.9	1.0	ug/l	25.0	ND	96	70-135	2	20	
cis-1,3-Dichloropropene	23.0	0.50	ug/l	25.0	ND	92	70-130	2	20	
trans-1,3-Dichloropropene	23.6	0.50	ug/l	25.0	ND	94	65-135	7	25	

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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: 7D17005 Extracted: 04/17/07										
Matrix Spike Dup Analyzed: 04/17/2007 (7D17005-MSD1)					Source: IQD0920-01					
Ethylbenzene	25.9	1.0	ug/l	25.0	ND	104	65-130	3	20	
Hexachlorobutadiene	26.0	1.0	ug/l	25.0	ND	104	60-135	3	20	
Isopropylbenzene	28.8	1.0	ug/l	25.0	ND	115	70-135	1	20	
p-Isopropyltoluene	26.7	1.0	ug/l	25.0	ND	107	65-130	2	20	
Methylene chloride	20.0	5.0	ug/l	25.0	ND	80	50-135	3	20	
Naphthalene	23.7	1.0	ug/l	25.0	ND	95	50-140	17	30	
n-Propylbenzene	26.8	1.0	ug/l	25.0	ND	107	70-135	3	20	
Styrene	26.0	1.0	ug/l	25.0	ND	104	50-145	2	30	
1,1,1,2-Tetrachloroethane	25.8	1.0	ug/l	25.0	ND	103	65-140	2	20	
1,1,2,2-Tetrachloroethane	23.6	1.0	ug/l	25.0	ND	94	55-135	18	30	
Tetrachloroethene	25.3	1.0	ug/l	25.0	ND	101	65-130	2	20	
Toluene	25.1	1.0	ug/l	25.0	ND	100	70-125	0	20	
1,2,3-Trichlorobenzene	25.4	1.0	ug/l	25.0	ND	102	60-135	7	20	
1,2,4-Trichlorobenzene	25.9	1.0	ug/l	25.0	ND	104	65-135	4	20	
1,1,1-Trichloroethane	24.5	1.0	ug/l	25.0	ND	98	65-140	2	20	
1,1,2-Trichloroethane	23.1	1.0	ug/l	25.0	ND	92	65-130	10	25	
Trichloroethene	24.7	1.0	ug/l	25.0	ND	99	65-125	0	20	
Trichlorofluoromethane	25.6	1.0	ug/l	25.0	ND	102	60-145	2	25	
1,2,3-Trichloropropane	23.7	1.0	ug/l	25.0	ND	95	55-135	18	30	
1,2,4-Trimethylbenzene	26.4	1.0	ug/l	25.0	ND	106	55-135	1	25	
1,3,5-Trimethylbenzene	26.7	1.0	ug/l	25.0	ND	107	70-130	1	20	
Vinyl chloride	24.6	0.50	ug/l	25.0	ND	98	45-140	1	30	
o-Xylene	25.2	1.0	ug/l	25.0	ND	101	65-125	2	20	
m,p-Xylenes	51.0	1.0	ug/l	50.0	ND	102	65-130	3	25	
Surrogate: Dibromofluoromethane	25.2		ug/l	25.0		101	80-120			
Surrogate: Toluene-d8	26.1		ug/l	25.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	24.7		ug/l	25.0		99	80-120			

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METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D13072 Extracted: 04/13/07									
Blank Analyzed: 04/16/2007 (7D13072-BLK1)									
Acenaphthene	ND	10	ug/l						
Acenaphthylene	ND	10	ug/l						
Aniline	ND	10	ug/l						
Anthracene	ND	10	ug/l						
Benzidine	ND	20	ug/l						
Benzoic acid	ND	20	ug/l						
Benzo(a)anthracene	ND	10	ug/l						
Benzo(b)fluoranthene	ND	10	ug/l						
Benzo(k)fluoranthene	ND	10	ug/l						
Benzo(g,h,i)perylene	ND	10	ug/l						
Benzo(a)pyrene	ND	10	ug/l						
Benzyl alcohol	ND	20	ug/l						
Bis(2-chloroethoxy)methane	ND	10	ug/l						
Bis(2-chloroethyl)ether	ND	10	ug/l						
Bis(2-chloroisopropyl)ether	ND	10	ug/l						
Bis(2-ethylhexyl)phthalate	ND	50	ug/l						
4-Bromophenyl phenyl ether	ND	10	ug/l						
Butyl benzyl phthalate	ND	20	ug/l						
4-Chloroaniline	ND	10	ug/l						
2-Chloronaphthalene	ND	10	ug/l						
4-Chloro-3-methylphenol	ND	20	ug/l						
2-Chlorophenol	ND	10	ug/l						
4-Chlorophenyl phenyl ether	ND	10	ug/l						
Chrysene	ND	10	ug/l						
Dibenz(a,h)anthracene	ND	20	ug/l						
Dibenzofuran	ND	10	ug/l						
Di-n-butyl phthalate	ND	20	ug/l						
1,3-Dichlorobenzene	ND	10	ug/l						
1,4-Dichlorobenzene	ND	10	ug/l						
1,2-Dichlorobenzene	ND	10	ug/l						
3,3-Dichlorobenzidine	ND	20	ug/l						
2,4-Dichlorophenol	ND	10	ug/l						
Diethyl phthalate	ND	10	ug/l						
2,4-Dimethylphenol	ND	20	ug/l						
Dimethyl phthalate	ND	10	ug/l						

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D13072 Extracted: 04/13/07										
Blank Analyzed: 04/16/2007 (7D13072-BLK1)										
4,6-Dinitro-2-methylphenol	ND	20	ug/l							
2,4-Dinitrophenol	ND	20	ug/l							
2,4-Dinitrotoluene	ND	10	ug/l							
2,6-Dinitrotoluene	ND	10	ug/l							
Di-n-octyl phthalate	ND	20	ug/l							
Fluoranthene	ND	10	ug/l							
Fluorene	ND	10	ug/l							
Hexachlorobenzene	ND	10	ug/l							
Hexachlorobutadiene	ND	10	ug/l							
Hexachlorocyclopentadiene	ND	20	ug/l							
Hexachloroethane	ND	10	ug/l							
Indeno(1,2,3-cd)pyrene	ND	20	ug/l							
Isophorone	ND	10	ug/l							
2-Methylnaphthalene	ND	10	ug/l							
2-Methylphenol	ND	10	ug/l							
4-Methylphenol	ND	10	ug/l							
Naphthalene	ND	10	ug/l							
2-Nitroaniline	ND	20	ug/l							
3-Nitroaniline	ND	20	ug/l							
4-Nitroaniline	ND	20	ug/l							
Nitrobenzene	ND	20	ug/l							
2-Nitrophenol	ND	10	ug/l							
4-Nitrophenol	ND	20	ug/l							
N-Nitrosodiphenylamine	ND	10	ug/l							
N-Nitroso-di-n-propylamine	ND	10	ug/l							
Pentachlorophenol	ND	20	ug/l							
Phenanthrene	ND	10	ug/l							
Phenol	ND	10	ug/l							
Pyrene	ND	10	ug/l							
1,2,4-Trichlorobenzene	ND	10	ug/l							
2,4,5-Trichlorophenol	ND	20	ug/l							
2,4,6-Trichlorophenol	ND	20	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	20	ug/l							
Surrogate: 2-Fluorophenol	127		ug/l	200		64	30-120			
Surrogate: Phenol-d6	145		ug/l	200		72	35-120			

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D13072 Extracted: 04/13/07										
Blank Analyzed: 04/16/2007 (7D13072-BLK1)										
Surrogate: 2,4,6-Tribromophenol	179		ug/l	200		90	40-120			
Surrogate: Nitrobenzene-d5	75.0		ug/l	100		75	40-120			
Surrogate: 2-Fluorobiphenyl	75.6		ug/l	100		76	45-120			
Surrogate: Terphenyl-d14	81.7		ug/l	100		82	45-120			
LCS Analyzed: 04/16/2007 (7D13072-BS1)										MNR1
Acenaphthene	91.1	10	ug/l	100		91	55-120			
Acenaphthylene	104	10	ug/l	100		104	60-120			
Aniline	75.0	10	ug/l	100		75	40-120			
Anthracene	94.6	10	ug/l	100		95	60-120			
Benidine	131	20	ug/l	100		131	25-160			
Benzoic acid	47.8	20	ug/l	100		48	25-120			
Benzo(a)anthracene	88.8	10	ug/l	100		89	60-120			
Benzo(b)fluoranthene	144	10	ug/l	100		144	55-125			L
Benzo(k)fluoranthene	132	10	ug/l	100		132	50-125			L
Benzo(g,h,i)perylene	132	10	ug/l	100		132	45-130			L
Benzo(a)pyrene	143	10	ug/l	100		143	55-125			L
Benzyl alcohol	93.2	20	ug/l	100		93	50-120			
Bis(2-chloroethoxy)methane	91.8	10	ug/l	100		92	55-120			
Bis(2-chloroethyl)ether	73.1	10	ug/l	100		73	50-120			
Bis(2-chloroisopropyl)ether	79.9	10	ug/l	100		80	45-120			
Bis(2-ethylhexyl)phthalate	83.4	50	ug/l	100		83	60-125			
4-Bromophenyl phenyl ether	97.2	10	ug/l	100		97	55-120			
Butyl benzyl phthalate	85.2	20	ug/l	100		85	50-125			
4-Chloroaniline	93.6	10	ug/l	100		94	50-120			
2-Chloronaphthalene	86.8	10	ug/l	100		87	55-120			
4-Chloro-3-methylphenol	95.3	20	ug/l	100		95	55-120			
2-Chlorophenol	81.2	10	ug/l	100		81	45-120			
4-Chlorophenyl phenyl ether	91.9	10	ug/l	100		92	60-120			
Chrysene	88.8	10	ug/l	100		89	60-120			
Dibenz(a,h)anthracene	136	20	ug/l	100		136	50-135			L
Dibenzofuran	89.6	10	ug/l	100		90	60-120			
Di-n-butyl phthalate	91.7	20	ug/l	100		92	55-125			
1,3-Dichlorobenzene	59.7	10	ug/l	100		60	35-120			
1,4-Dichlorobenzene	63.0	10	ug/l	100		63	35-120			
1,2-Dichlorobenzene	66.5	10	ug/l	100		66	40-120			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D13072 Extracted: 04/13/07										
LCS Analyzed: 04/16/2007 (7D13072-BS1)										MNR1
3,3-Dichlorobenzidine	90.5	20	ug/l	100		90	50-135			
2,4-Dichlorophenol	89.4	10	ug/l	100		89	50-120			
Diethyl phthalate	89.4	10	ug/l	100		89	50-120			
2,4-Dimethylphenol	74.6	20	ug/l	100		75	35-120			
Dimethyl phthalate	90.1	10	ug/l	100		90	25-120			
4,6-Dinitro-2-methylphenol	87.6	20	ug/l	100		88	40-120			
2,4-Dinitrophenol	66.2	20	ug/l	100		66	35-120			
2,4-Dinitrotoluene	100	10	ug/l	100		100	60-120			
2,6-Dinitrotoluene	96.0	10	ug/l	100		96	60-120			
Di-n-octyl phthalate	76.3	20	ug/l	100		76	60-130			
Fluoranthene	93.2	10	ug/l	100		93	55-120			
Fluorene	90.8	10	ug/l	100		91	60-120			
Hexachlorobenzene	97.7	10	ug/l	100		98	55-120			
Hexachlorobutadiene	71.6	10	ug/l	100		72	40-120			
Hexachlorocyclopentadiene	61.4	20	ug/l	100		61	20-120			
Hexachloroethane	62.1	10	ug/l	100		62	35-120			
Indeno(1,2,3-cd)pyrene	137	20	ug/l	100		137	45-135			L
Isophorone	77.6	10	ug/l	100		78	50-120			
2-Methylnaphthalene	89.8	10	ug/l	100		90	50-120			
2-Methylphenol	85.4	10	ug/l	100		85	50-120			
4-Methylphenol	90.0	10	ug/l	100		90	45-120			
Naphthalene	86.8	10	ug/l	100		87	50-120			
2-Nitroaniline	100	20	ug/l	100		100	60-120			
3-Nitroaniline	100	20	ug/l	100		100	55-120			
4-Nitroaniline	101	20	ug/l	100		101	50-125			
Nitrobenzene	81.4	20	ug/l	100		81	50-120			
2-Nitrophenol	89.7	10	ug/l	100		90	45-120			
4-Nitrophenol	89.2	20	ug/l	100		89	40-120			
N-Nitrosodiphenylamine	87.8	10	ug/l	100		88	55-120			
N-Nitroso-di-n-propylamine	85.1	10	ug/l	100		85	45-120			
Pentachlorophenol	108	20	ug/l	100		108	45-125			
Phenanthrene	98.4	10	ug/l	100		98	60-120			
Phenol	77.8	10	ug/l	100		78	45-120			
Pyrene	88.5	10	ug/l	100		88	50-125			
1,2,4-Trichlorobenzene	73.8	10	ug/l	100		74	45-120			

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021.APC.00
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Received: 04/11/07

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D13072 Extracted: 04/13/07										
LCS Analyzed: 04/16/2007 (7D13072-BS1)										MNR1
2,4,5-Trichlorophenol	94.3	20	ug/l	100		94	50-120			
2,4,6-Trichlorophenol	92.9	20	ug/l	100		93	50-120			
1,2-Diphenylhydrazine/Azobenzene	85.2	20	ug/l	100		85	55-120			
Surrogate: 2-Fluorophenol	139		ug/l	200		70	30-120			
Surrogate: Phenol-d6	157		ug/l	200		78	35-120			
Surrogate: 2,4,6-Tribromophenol	197		ug/l	200		98	40-120			
Surrogate: Nitrobenzene-d5	85.7		ug/l	100		86	40-120			
Surrogate: 2-Fluorobiphenyl	84.9		ug/l	100		85	45-120			
Surrogate: Terphenyl-d14	87.9		ug/l	100		88	45-120			
LCS Dup Analyzed: 04/16/2007 (7D13072-BSD1)										
Acenaphthene	86.6	10	ug/l	100		87	55-120	5	20	
Acenaphthylene	99.6	10	ug/l	100		100	60-120	4	20	
Aniline	86.7	10	ug/l	100		87	40-120	14	30	
Anthracene	90.7	10	ug/l	100		91	60-120	4	20	
Benidine	156	20	ug/l	100		156	25-160	17	35	
Benzoic acid	70.2	20	ug/l	100		70	25-120	38	30	R-7
Benzo(a)anthracene	87.2	10	ug/l	100		87	60-120	2	20	
Benzo(b)fluoranthene	133	10	ug/l	100		133	55-125	8	25	L
Benzo(k)fluoranthene	124	10	ug/l	100		124	50-125	6	20	
Benzo(g,h,i)perylene	143	10	ug/l	100		143	45-130	8	25	L
Benzo(a)pyrene	135	10	ug/l	100		135	55-125	6	25	L
Benzyl alcohol	88.3	20	ug/l	100		88	50-120	5	20	
Bis(2-chloroethoxy)methane	87.0	10	ug/l	100		87	55-120	5	20	
Bis(2-chloroethyl)ether	69.7	10	ug/l	100		70	50-120	5	20	
Bis(2-chloroisopropyl)ether	74.9	10	ug/l	100		75	45-120	6	20	
Bis(2-ethylhexyl)phthalate	83.4	50	ug/l	100		83	60-125	0	20	
4-Bromophenyl phenyl ether	92.4	10	ug/l	100		92	55-120	5	25	
Butyl benzyl phthalate	84.0	20	ug/l	100		84	50-125	1	20	
4-Chloroaniline	93.4	10	ug/l	100		93	50-120	0	25	
2-Chloronaphthalene	83.2	10	ug/l	100		83	55-120	4	20	
4-Chloro-3-methylphenol	94.3	20	ug/l	100		94	55-120	1	25	
2-Chlorophenol	75.3	10	ug/l	100		75	45-120	8	25	
4-Chlorophenyl phenyl ether	90.7	10	ug/l	100		91	60-120	1	20	
Chrysene	91.4	10	ug/l	100		91	60-120	3	20	
Dibenz(a,h)anthracene	138	20	ug/l	100		138	50-135	1	25	L

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D13072 Extracted: 04/13/07										
LCS Dup Analyzed: 04/16/2007 (7D13072-BSD1)										
Dibenzofuran	89.3	10	ug/l	100		89	60-120	0	20	
Di-n-butyl phthalate	88.0	20	ug/l	100		88	55-125	4	20	
1,3-Dichlorobenzene	50.5	10	ug/l	100		50	35-120	17	25	
1,4-Dichlorobenzene	54.9	10	ug/l	100		55	35-120	14	25	
1,2-Dichlorobenzene	60.5	10	ug/l	100		60	40-120	9	25	
3,3-Dichlorobenzidine	88.4	20	ug/l	100		88	50-135	2	25	
2,4-Dichlorophenol	83.6	10	ug/l	100		84	50-120	7	20	
Diethyl phthalate	86.0	10	ug/l	100		86	50-120	4	30	
2,4-Dimethylphenol	76.5	20	ug/l	100		76	35-120	3	25	
Dimethyl phthalate	84.7	10	ug/l	100		85	25-120	6	30	
4,6-Dinitro-2-methylphenol	86.0	20	ug/l	100		86	40-120	2	25	
2,4-Dinitrophenol	77.2	20	ug/l	100		77	35-120	15	25	
2,4-Dinitrotoluene	99.6	10	ug/l	100		100	60-120	0	20	
2,6-Dinitrotoluene	93.7	10	ug/l	100		94	60-120	2	20	
Di-n-octyl phthalate	83.9	20	ug/l	100		84	60-130	9	20	
Fluoranthene	94.5	10	ug/l	100		94	55-120	1	20	
Fluorene	90.1	10	ug/l	100		90	60-120	1	20	
Hexachlorobenzene	89.1	10	ug/l	100		89	55-120	9	20	
Hexachlorobutadiene	63.9	10	ug/l	100		64	40-120	11	25	
Hexachlorocyclopentadiene	67.7	20	ug/l	100		68	20-120	10	30	
Hexachloroethane	53.6	10	ug/l	100		54	35-120	15	25	
Indeno(1,2,3-cd)pyrene	139	20	ug/l	100		139	45-135	1	25	L
Isophorone	73.5	10	ug/l	100		74	50-120	5	20	
2-Methylnaphthalene	84.8	10	ug/l	100		85	50-120	6	20	
2-Methylphenol	82.1	10	ug/l	100		82	50-120	4	20	
4-Methylphenol	89.6	10	ug/l	100		90	45-120	0	20	
Naphthalene	77.2	10	ug/l	100		77	50-120	12	20	
2-Nitroaniline	102	20	ug/l	100		102	60-120	2	20	
3-Nitroaniline	100	20	ug/l	100		100	55-120	0	25	
4-Nitroaniline	113	20	ug/l	100		113	50-125	11	20	
Nitrobenzene	76.2	20	ug/l	100		76	50-120	7	25	
2-Nitrophenol	85.0	10	ug/l	100		85	45-120	5	25	
4-Nitrophenol	95.9	20	ug/l	100		96	40-120	7	30	
N-Nitrosodiphenylamine	79.2	10	ug/l	100		79	55-120	10	20	
N-Nitroso-di-n-propylamine	82.7	10	ug/l	100		83	45-120	3	20	

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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D13072 Extracted: 04/13/07									
LCS Dup Analyzed: 04/16/2007 (7D13072-BSD1)									
Pentachlorophenol	105	20	ug/l	100		105 45-125	3	25	
Phenanthrene	93.0	10	ug/l	100		93 60-120	6	20	
Phenol	73.3	10	ug/l	100		73 45-120	6	25	
Pyrene	81.4	10	ug/l	100		81 50-125	8	25	
1,2,4-Trichlorobenzene	66.8	10	ug/l	100		67 45-120	10	20	
2,4,5-Trichlorophenol	91.4	20	ug/l	100		91 50-120	3	30	
2,4,6-Trichlorophenol	87.7	20	ug/l	100		88 50-120	6	30	
1,2-Diphenylhydrazine/Azobenzene	82.6	20	ug/l	100		83 55-120	3	25	
Surrogate: 2-Fluorophenol	128		ug/l	200		64 30-120			
Surrogate: Phenol-d6	148		ug/l	200		74 35-120			
Surrogate: 2,4,6-Tribromophenol	191		ug/l	200		96 40-120			
Surrogate: Nitrobenzene-d5	79.3		ug/l	100		79 40-120			
Surrogate: 2-Fluorobiphenyl	83.2		ug/l	100		83 45-120			
Surrogate: Terphenyl-d14	81.0		ug/l	100		81 45-120			

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METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D12113 Extracted: 04/12/07										
Blank Analyzed: 04/12/2007-04/13/2007 (7D12113-BLK1)										
Antimony	ND	0.010	mg/l							
Arsenic	ND	0.010	mg/l							
Beryllium	ND	0.0020	mg/l							
Cadmium	ND	0.0050	mg/l							
Chromium	ND	0.0050	mg/l							
Copper	ND	0.010	mg/l							
Lead	0.00405	0.0050	mg/l							J
Nickel	ND	0.010	mg/l							
Selenium	ND	0.010	mg/l							
Silver	ND	0.010	mg/l							
Thallium	ND	0.010	mg/l							
Zinc	ND	0.020	mg/l							

LCS Analyzed: 04/12/2007-04/13/2007 (7D12113-BS1)

Antimony	0.529	0.010	mg/l	0.500		106	85-115
Arsenic	0.516	0.010	mg/l	0.500		103	85-115
Beryllium	0.488	0.0020	mg/l	0.500		98	85-115
Cadmium	0.469	0.0050	mg/l	0.500		94	85-115
Chromium	0.488	0.0050	mg/l	0.500		98	85-115
Copper	0.482	0.010	mg/l	0.500		96	85-115
Lead	0.479	0.0050	mg/l	0.500		96	85-115
Nickel	0.479	0.010	mg/l	0.500		96	85-115
Selenium	0.456	0.010	mg/l	0.500		91	85-115
Silver	0.260	0.010	mg/l	0.250		104	85-115
Thallium	0.496	0.010	mg/l	0.500		99	85-115
Zinc	0.476	0.020	mg/l	0.500		95	85-115

Matrix Spike Analyzed: 04/12/2007-04/13/2007 (7D12113-MS1)

Source: IQD0663-01

Antimony	0.532	0.010	mg/l	0.500	ND	106	70-130
Arsenic	0.530	0.010	mg/l	0.500	ND	106	70-130
Beryllium	0.504	0.0020	mg/l	0.500	ND	101	70-130
Cadmium	0.466	0.0050	mg/l	0.500	ND	93	70-130
Chromium	0.495	0.0050	mg/l	0.500	ND	99	70-130
Copper	0.524	0.010	mg/l	0.500	0.0047	104	70-130
Lead	1.39	0.0050	mg/l	0.500	0.91	96	70-130
Nickel	0.481	0.010	mg/l	0.500	ND	96	70-130

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D12113 Extracted: 04/12/07										
Matrix Spike Analyzed: 04/12/2007-04/13/2007 (7D12113-MS1)					Source: IQD0663-01					
Selenium	0.442	0.010	mg/l	0.500	ND	88	70-130			
Silver	0.264	0.010	mg/l	0.250	ND	106	70-130			
Thallium	0.493	0.010	mg/l	0.500	ND	99	70-130			
Zinc	0.502	0.020	mg/l	0.500	ND	100	70-130			
Matrix Spike Analyzed: 04/12/2007-04/13/2007 (7D12113-MS2)					Source: IQD1178-01					
Antimony	0.525	0.010	mg/l	0.500	ND	105	70-130			
Arsenic	0.610	0.010	mg/l	0.500	0.078	106	70-130			
Beryllium	0.499	0.0020	mg/l	0.500	ND	100	70-130			
Cadmium	0.475	0.0050	mg/l	0.500	ND	95	70-130			
Chromium	0.497	0.0050	mg/l	0.500	0.0039	99	70-130			
Copper	2.67	0.010	mg/l	0.500	2.2	94	70-130			
Lead	0.485	0.0050	mg/l	0.500	0.0084	95	70-130			
Nickel	0.492	0.010	mg/l	0.500	0.013	96	70-130			
Selenium	1.38	0.010	mg/l	0.500	0.91	94	70-130			
Silver	0.271	0.010	mg/l	0.250	ND	108	70-130			
Thallium	0.484	0.010	mg/l	0.500	ND	97	70-130			
Zinc	0.614	0.020	mg/l	0.500	0.019	119	70-130			
Matrix Spike Dup Analyzed: 04/12/2007-04/13/2007 (7D12113-MSD1)					Source: IQD0663-01					
Antimony	0.536	0.010	mg/l	0.500	ND	107	70-130	1	20	
Arsenic	0.526	0.010	mg/l	0.500	ND	105	70-130	1	20	
Beryllium	0.499	0.0020	mg/l	0.500	ND	100	70-130	1	20	
Cadmium	0.473	0.0050	mg/l	0.500	ND	95	70-130	1	20	
Chromium	0.495	0.0050	mg/l	0.500	ND	99	70-130	0	20	
Copper	0.526	0.010	mg/l	0.500	0.0047	104	70-130	0	20	
Lead	1.39	0.0050	mg/l	0.500	0.91	96	70-130	0	20	
Nickel	0.480	0.010	mg/l	0.500	ND	96	70-130	0	20	
Selenium	0.447	0.010	mg/l	0.500	ND	89	70-130	1	20	
Silver	0.270	0.010	mg/l	0.250	ND	108	70-130	2	20	
Thallium	0.500	0.010	mg/l	0.500	ND	100	70-130	1	20	
Zinc	0.499	0.020	mg/l	0.500	ND	100	70-130	1	20	

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METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D19073 Extracted: 04/19/07										
Blank Analyzed: 04/19/2007 (7D19073-BLK1)										
Mercury	ND	0.00020	mg/l							
LCS Analyzed: 04/19/2007 (7D19073-BS1)										
Mercury	0.00828	0.00020	mg/l	0.00800		104	85-115			
Matrix Spike Analyzed: 04/19/2007 (7D19073-MS1)										
Mercury	0.00827	0.00020	mg/l	0.00800	ND	103	70-130			
Matrix Spike Dup Analyzed: 04/19/2007 (7D19073-MSD1)										
Mercury	0.00816	0.00020	mg/l	0.00800	ND	102	70-130	1	20	

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INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D11051 Extracted: 04/11/07										
Blank Analyzed: 04/11/2007 (7D11051-BLK1)										
Nitrate-N	ND	0.15	mg/l							
LCS Analyzed: 04/11/2007 (7D11051-BS1)										
Nitrate-N	1.06	0.15	mg/l	1.13		94	90-110			
Matrix Spike Analyzed: 04/12/2007 (7D11051-MS1)					Source: IQD1099-03					
Nitrate-N	10.4	1.5	mg/l	11.3	ND	92	80-120			
Matrix Spike Dup Analyzed: 04/12/2007 (7D11051-MSD1)					Source: IQD1099-03					
Nitrate-N	10.3	1.5	mg/l	11.3	ND	91	80-120	1	20	
Batch: 7D11129 Extracted: 04/11/07										
Duplicate Analyzed: 04/11/2007 (7D11129-DUP1)					Source: IQD1038-01					
pH	7.53	NA	pH Units		7.50			0	5	HFT
Batch: 7D11137 Extracted: 04/11/07										
Blank Analyzed: 04/11/2007 (7D11137-BLK1)										
Surfactants (MBAS)	ND	0.10	mg/l							
LCS Analyzed: 04/11/2007 (7D11137-BS1)										
Surfactants (MBAS)	0.271	0.10	mg/l	0.250		108	90-110			
Matrix Spike Analyzed: 04/11/2007 (7D11137-MS1)					Source: IQD1039-01					
Surfactants (MBAS)	0.201	0.10	mg/l	0.250	ND	80	50-125			

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INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D11137 Extracted: 04/11/07										
Matrix Spike Dup Analyzed: 04/11/2007 (7D11137-MSD1)					Source: IQD1039-01					
Surfactants (MBAS)	0.202	0.10	mg/l	0.250	ND	81	50-125	1	20	
Batch: 7D12056 Extracted: 04/12/07										
Duplicate Analyzed: 04/12/2007 (7D12056-DUP1)					Source: IQD1038-01					
Residual Chlorine	ND	0.10	mg/l		ND				20	HFT
Batch: 7D12058 Extracted: 04/12/07										
Duplicate Analyzed: 04/12/2007 (7D12058-DUP1)					Source: IQD1038-03					
Dissolved Oxygen	7.95	1.0	mg/l		7.9			1	20	HFT
Batch: 7D12073 Extracted: 04/12/07										
Blank Analyzed: 04/17/2007 (7D12073-BLK1)										
Biochemical Oxygen Demand	ND	2.0	mg/l							
LCS Analyzed: 04/17/2007 (7D12073-BS1)										
Biochemical Oxygen Demand	216	100	mg/l	198		109	85-115			
LCS Dup Analyzed: 04/17/2007 (7D12073-BSD1)										
Biochemical Oxygen Demand	217	100	mg/l	198		110	85-115	1	20	
Batch: 7D12110 Extracted: 04/12/07										
Blank Analyzed: 04/13/2007 (7D12110-BLK1)										
Total Cyanide	ND	0.0050	mg/l							

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021.APC.00
Report Number: IQD1038

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Received: 04/11/07

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D12110 Extracted: 04/12/07										
LCS Analyzed: 04/13/2007 (7D12110-BS1)										
Total Cyanide	0.193	0.0050	mg/l	0.200		96	90-110			
Matrix Spike Analyzed: 04/13/2007 (7D12110-MS1)										
Total Cyanide	0.190	0.0050	mg/l	0.200	ND	95	70-115			
Matrix Spike Dup Analyzed: 04/13/2007 (7D12110-MSD1)										
Total Cyanide	0.190	0.0050	mg/l	0.200	ND	95	70-115	0	15	
Batch: 7D12118 Extracted: 04/12/07										
Blank Analyzed: 04/12/2007 (7D12118-BLK1)										
Turbidity	ND	1.0	NTU							
Duplicate Analyzed: 04/12/2007 (7D12118-DUP1)										
Turbidity	0.620	1.0	NTU		0.58			7	20	J
Duplicate Analyzed: 04/12/2007 (7D12118-DUP2)										
Turbidity	77.8	2.0	NTU		77			1	20	
Batch: 7D16094 Extracted: 04/16/07										
Blank Analyzed: 04/16/2007 (7D16094-BLK1)										
Sulfide	ND	0.10	mg/l							
LCS Analyzed: 04/16/2007 (7D16094-BS1)										
Sulfide	0.541	0.10	mg/l	0.520		104	80-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D16094 Extracted: 04/16/07										
Matrix Spike Analyzed: 04/16/2007 (7D16094-MS1)					Source: IQD1038-01					
Sulfide	0.563	0.10	mg/l	0.520	0.043	100	70-130			
Matrix Spike Dup Analyzed: 04/16/2007 (7D16094-MSD1)					Source: IQD1038-01					
Sulfide	0.535	0.10	mg/l	0.520	0.043	95	70-130	5	30	
Batch: 7D17119 Extracted: 04/17/07										
Duplicate Analyzed: 04/17/2007 (7D17119-DUP1)					Source: IQD1038-02					
Salinity	33.9	0.10	g/l		34			0	20	
Batch: 7D17133 Extracted: 04/17/07										
Blank Analyzed: 04/17/2007 (7D17133-BLK1)										
Total Suspended Solids	ND	10	mg/l							
LCS Analyzed: 04/17/2007 (7D17133-BS1)										
Total Suspended Solids	951	10	mg/l	1000		95	85-115			
Duplicate Analyzed: 04/17/2007 (7D17133-DUP1)					Source: IQD1038-01					
Total Suspended Solids	ND	10	mg/l		ND				10	
Batch: 7D18095 Extracted: 04/18/07										
Blank Analyzed: 04/18/2007 (7D18095-BLK1)										
Hexane Extractable Material (Oil & Grease)	ND	5.0	mg/l							

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INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D18095 Extracted: 04/18/07										
LCS Analyzed: 04/18/2007 (7D18095-BS1)										
Hexane Extractable Material (Oil & Grease)	37.9	5.0	mg/l	40.0		95	78-114			
LCS Dup Analyzed: 04/18/2007 (7D18095-BSD1)										
Hexane Extractable Material (Oil & Grease)	39.9	5.0	mg/l	40.0		100	78-114	5	11	
Matrix Spike Analyzed: 04/18/2007 (7D18095-MS1)					Source: IQD1712-01					
Hexane Extractable Material (Oil & Grease)	38.6	4.8	mg/l	38.1	3.7	92	78-114			
Batch: 7D19110 Extracted: 04/19/07										
Blank Analyzed: 04/19/2007 (7D19110-BLK1)										
Ammonia-N (Distilled)	ND	1.0	mg/l							
LCS Analyzed: 04/19/2007 (7D19110-BS1)										
Ammonia-N (Distilled)	4.98	1.0	mg/l	5.00		100	85-115			
Duplicate Analyzed: 04/19/2007 (7D19110-DUP1)					Source: IQD1868-01					
Ammonia-N (Distilled)	0.539	1.0	mg/l		0.54			0	15	J
Matrix Spike Analyzed: 04/19/2007 (7D19110-MS1)					Source: IQD1505-01					
Ammonia-N (Distilled)	5.22	1.0	mg/l	5.00	0.34	98	75-125			
Matrix Spike Dup Analyzed: 04/19/2007 (7D19110-MSD1)					Source: IQD1505-01					
Ammonia-N (Distilled)	5.22	1.0	mg/l	5.00	0.34	98	75-125	0	15	
Batch: 7D19126 Extracted: 04/19/07										
Blank Analyzed: 04/19/2007 (7D19126-BLK1)										
Total Organic Carbon	ND	1.0	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7D19126 Extracted: 04/19/07										
LCS Analyzed: 04/19/2007 (7D19126-BS1)										
Total Organic Carbon	9.91	1.0	mg/l	10.0		99	90-110			
Matrix Spike Analyzed: 04/19/2007 (7D19126-MS1)										
Total Organic Carbon	7.83	1.0	mg/l	5.00	2.7	103	80-120			
Matrix Spike Dup Analyzed: 04/19/2007 (7D19126-MSD1)										
Total Organic Carbon	8.13	1.0	mg/l	5.00	2.7	109	80-120	4	20	
Batch: 7D23061 Extracted: 04/23/07										
Blank Analyzed: 04/23/2007 (7D23061-BLK1)										
Hardness (as CaCO3)	ND	4.0	mg/l							
LCS Analyzed: 04/23/2007 (7D23061-BS1)										
Hardness (as CaCO3)	272	4.0	mg/l	288		94	90-110			
Duplicate Analyzed: 04/23/2007 (7D23061-DUP1)										
Hardness (as CaCO3)	400	4.0	mg/l		400			0	20	

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METHOD BLANK/QC DATA

Organotin Compounds by GC - FPD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7041701 Extracted: 04/17/07										
Blank Analyzed: 04/19/2007 (7041701-BLK1)										
Tributyltin	ND	0.005	ug/l							
Dibutyltin	ND	0.020	ug/l							
Monobutyltin	ND	0.020	ug/l							
Surrogate: Triphenyltin	0.206		ug/l	0.250		82	71-128			
Surrogate: Tri-n-propyltin	0.216		ug/l	0.250		86	67-130			
LCS Analyzed: 04/19/2007 (7041701-BS1)										
Tributyltin	0.230	0.005	ug/l	0.250		92	65-138			
Dibutyltin	0.228	0.020	ug/l	0.249		92	5-88			QL-05
Monobutyltin	0.041	0.020	ug/l	0.250		16	0-88			
Surrogate: Triphenyltin	0.212		ug/l	0.250		85	71-128			
Surrogate: Tri-n-propyltin	0.226		ug/l	0.250		90	67-130			
LCS Dup Analyzed: 04/19/2007 (7041701-BSD1)										
Tributyltin	0.254	0.005	ug/l	0.250		102	65-138	10	30	
Dibutyltin	0.246	0.020	ug/l	0.249		99	5-88	8	30	QL-05
Monobutyltin	0.039	0.020	ug/l	0.250		16	0-88	5	30	
Surrogate: Triphenyltin	0.214		ug/l	0.250		86	71-128			
Surrogate: Tri-n-propyltin	0.235		ug/l	0.250		94	67-130			

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METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 3520C/8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: P7D1716 Extracted: 04/17/07										
Blank Analyzed: 04/23/2007 (P7D1716-BLK1)										
Acenaphthene	ND	1.0	ug/l							
Acenaphthylene	ND	1.0	ug/l							
Anthracene	ND	0.050	ug/l							
Benzo(a)anthracene	ND	0.050	ug/l							
Benzo(a)pyrene	ND	0.050	ug/l							
Benzo(b)fluoranthene	ND	0.10	ug/l							
Benzo(g,h,i)perylene	ND	0.10	ug/l							
Benzo(k)fluoranthene	ND	0.050	ug/l							
Chrysene	ND	0.10	ug/l							
Dibenz(a,h)anthracene	ND	0.10	ug/l							
Fluoranthene	ND	0.10	ug/l							
Fluorene	ND	0.10	ug/l							
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/l							
Naphthalene	ND	0.50	ug/l							
Phenanthrene	ND	0.10	ug/l							
Pyrene	ND	0.10	ug/l							
Surrogate: 2-Methylanthracene	0.521		ug/l	0.600		87	50-115			
LCS Analyzed: 04/23/2007 (P7D1716-BS1)										
Acenaphthene	4.99	1.0	ug/l	6.00		83	55-115			
Acenaphthylene	9.66	1.0	ug/l	12.0		80	55-115			
Anthracene	0.508	0.050	ug/l	0.600		85	55-115			
Benzo(a)anthracene	0.533	0.050	ug/l	0.600		89	70-115			
Benzo(a)pyrene	0.622	0.050	ug/l	0.600		104	75-115			
Benzo(b)fluoranthene	1.04	0.10	ug/l	1.20		87	80-115			
Benzo(g,h,i)perylene	1.13	0.10	ug/l	1.20		94	70-115			
Benzo(k)fluoranthene	0.536	0.050	ug/l	0.600		89	70-115			
Chrysene	0.531	0.10	ug/l	0.600		88	70-115			
Dibenz(a,h)anthracene	0.993	0.10	ug/l	1.20		83	65-115			
Fluoranthene	1.04	0.10	ug/l	1.20		87	60-115			
Fluorene	0.992	0.10	ug/l	1.20		83	55-115			
Indeno(1,2,3-cd)pyrene	0.499	0.10	ug/l	0.600		83	70-115			
Naphthalene	4.60	0.50	ug/l	6.00		77	45-115			
Phenanthrene	0.500	0.10	ug/l	0.600		83	50-115			
Pyrene	0.589	0.10	ug/l	0.600		98	65-115			
Surrogate: 2-Methylanthracene	0.534		ug/l	0.600		89	50-115			

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METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 3520C/8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: P7D1716 Extracted: 04/17/07										
LCS Dup Analyzed: 04/23/2007 (P7D1716-BSD1)										
Acenaphthene	5.59	1.0	ug/l	6.00		93	55-115	11	15	
Acenaphthylene	10.0	1.0	ug/l	12.0		83	55-115	3	20	
Anthracene	0.517	0.050	ug/l	0.600		86	55-115	2	20	
Benzo(a)anthracene	0.522	0.050	ug/l	0.600		87	70-115	2	15	
Benzo(a)pyrene	0.613	0.050	ug/l	0.600		102	75-115	1	15	
Benzo(b)fluoranthene	1.03	0.10	ug/l	1.20		86	80-115	1	15	
Benzo(g,h,i)perylene	1.09	0.10	ug/l	1.20		91	70-115	4	15	
Benzo(k)fluoranthene	0.523	0.050	ug/l	0.600		87	70-115	2	15	
Chrysene	0.517	0.10	ug/l	0.600		86	70-115	3	15	
Dibenz(a,h)anthracene	0.959	0.10	ug/l	1.20		80	65-115	3	15	
Fluoranthene	1.04	0.10	ug/l	1.20		87	60-115	0	20	
Fluorene	0.839	0.10	ug/l	1.20		70	55-115	17	20	
Indeno(1,2,3-cd)pyrene	0.481	0.10	ug/l	0.600		80	70-115	4	20	
Naphthalene	4.81	0.50	ug/l	6.00		80	45-115	4	25	
Phenanthrene	0.511	0.10	ug/l	0.600		85	50-115	2	25	
Pyrene	0.588	0.10	ug/l	0.600		98	65-115	0	20	
Surrogate: 2-Methylanthracene	0.545		ug/l	0.600		91	50-115			

Matrix Spike Analyzed: 04/23/2007 (P7D1716-MS1)

Source: PQD0481-01

Acenaphthene	4.41	1.0	ug/l	5.66	ND	78	55-115			
Acenaphthylene	6.98	1.0	ug/l	11.3	ND	62	55-115			
Anthracene	0.422	0.050	ug/l	0.566	ND	75	65-115			
Benzo(a)anthracene	0.261	0.050	ug/l	0.566	ND	46	70-120			M2
Benzo(a)pyrene	0.213	0.050	ug/l	0.566	0.024	33	60-125			M2
Benzo(b)fluoranthene	0.367	0.10	ug/l	1.13	0.041	29	70-125			M2
Benzo(g,h,i)perylene	0.298	0.10	ug/l	1.13	0.037	23	55-120			M2
Benzo(k)fluoranthene	0.173	0.050	ug/l	0.566	ND	31	60-125			M2
Chrysene	0.302	0.10	ug/l	0.566	0.055	44	70-120			M2
Dibenz(a,h)anthracene	0.242	0.10	ug/l	1.13	ND	21	40-120			M2
Fluoranthene	0.859	0.10	ug/l	1.13	ND	76	60-115			
Fluorene	0.811	0.10	ug/l	1.13	ND	72	55-115			
Indeno(1,2,3-cd)pyrene	0.130	0.10	ug/l	0.566	ND	23	55-125			M2
Naphthalene	4.76	0.50	ug/l	5.66	1.1	65	55-115			
Phenanthrene	0.457	0.10	ug/l	0.566	0.066	69	60-115			
Pyrene	0.491	0.10	ug/l	0.566	0.094	70	65-115			
Surrogate: 2-Methylanthracene	0.489		ug/l	0.566		86	50-115			

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METHOD BLANK/QC DATA

POLYNUCLEAR AROMATIC HYDROCARBONS (EPA 3520C/8310)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: P7D1716 Extracted: 04/17/07										
Matrix Spike Dup Analyzed: 04/23/2007 (P7D1716-MSD1)					Source: PQD0481-01					
Acenaphthene	4.41	1.0	ug/l	5.71	ND	77	55-115	0	25	
Acenaphthylene	8.57	1.0	ug/l	11.4	ND	75	55-115	20	25	
Anthracene	0.415	0.050	ug/l	0.571	ND	73	65-115	2	25	
Benzo(a)anthracene	0.258	0.050	ug/l	0.571	ND	45	70-120	1	25	M2
Benzo(a)pyrene	0.236	0.050	ug/l	0.571	0.024	37	60-125	10	25	M2
Benzo(b)fluoranthene	0.357	0.10	ug/l	1.14	0.041	28	70-125	3	25	M2
Benzo(g,h,i)perylene	0.335	0.10	ug/l	1.14	0.037	26	55-120	12	25	M2
Benzo(k)fluoranthene	0.176	0.050	ug/l	0.571	ND	31	60-125	2	20	M2
Chrysene	0.315	0.10	ug/l	0.571	0.055	46	70-120	4	25	M2
Dibenz(a,h)anthracene	0.272	0.10	ug/l	1.14	ND	24	40-120	12	35	M2
Fluoranthene	0.914	0.10	ug/l	1.14	ND	80	60-115	6	25	
Fluorene	0.784	0.10	ug/l	1.14	ND	69	55-115	3	30	
Indeno(1,2,3-cd)pyrene	0.201	0.10	ug/l	0.571	ND	35	55-125	43	25	M2, R
Naphthalene	4.62	0.50	ug/l	5.71	1.1	62	55-115	3	35	
Phenanthrene	0.479	0.10	ug/l	0.571	0.066	72	60-115	5	30	
Pyrene	0.533	0.10	ug/l	0.571	0.094	77	65-115	8	25	
Surrogate: 2-Methylanthracene	0.498		ug/l	0.571		87	50-115			

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GCMS CALIBRATION CHECK CRITERIA

The % recovery for the following individual compounds fell outside the $\pm 15\%$ criteria, however the average % recovery of all compounds in the calibration check solution was within $\pm 15\%$, thus meeting the overall calibration check criteria.

<u>Compound</u>	<u>Footnote</u>	<u>Calibration Check</u> <u>% Recovery</u>	<u>Lab Number</u>	<u>Batch</u>
Bis(2-chloroisopropyl)ether	2	6.2	IQD1038-01	7D13072

Footnotes:

- 1 The calibration demonstrated a high bias for this compound. Samples were flagged to indicate a possible high bias in the result for this compound.
- 2 The calibration demonstrated a low bias for this compound. Samples were flagged to indicate a possible low bias in the result for this compound.

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DATA QUALIFIERS AND DEFINITIONS

C-2	Calibration Verification recovery was below the method control limit for this analyte, however the average % difference for all analytes met method criteria. See Calibration Summary form.
HFT	The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
K-1	The sample dilutions set up for the BOD analysis failed to meet the criteria of a residual dissolved oxygen of at least 1 mg/l. Therefore the reported result is an estimated value only.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
QL-05	Recovery for this analyte is better than statistically derived limits.
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-1	The RPD between the primary and confirmatory analysis exceeded 40%. Per method 8000B, the higher value was reported.
R-7	LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 1,2-Diphenylhydrazine:

The result for 1,2-Diphenylhydrazine is based upon the reading of its breakdown product, Azobenzene.

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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 120.1	Water	X	X
EPA 130.2	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 160.5	Water	X	X
EPA 1664	Water		
EPA 180.1	Water	X	X
EPA 200.7	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 330.5	Water	X	X
EPA 360.1	Water	X	X
EPA 376.2	Water	X	X
EPA 405.1	Water	X	X
EPA 415.1	Water	X	X
EPA 425.1	Water	X	X
EPA 8260B	Water	X	X
EPA 8270C	Water	X	X
SM4500-CN-C,E	Water	X	X
SM4500NH3-D	Water		

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-Acute 96hr

Samples: IQD1038-01

EnviroMatrix Analytical, Inc.

4340 Viewridge Avenue, Suite A - San Diego, CA 92123

Method Performed: GC - FPD

Samples: IQD1038-01

STL - Sacramento, CA (Sub) [1]

Analysis Performed: 8290-Diox-TCDD only

Samples: IQD1038-01

TestAmerica - Irvine, CA

Patty Mata

Project Manager

WGR Southwest, Inc. - Lodi
315 W. Pine Street, Suite 8
Lodi, CA 95240
Attention: John Teravskis

Project ID: BP Carson LVW
021.APC.00
Report Number: IQD1038

Sampled: 04/11/07
Received: 04/11/07

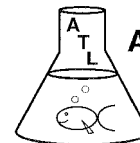
TestAmerica - Phoenix, AZ *NELAC Cert #01109CA, California Cert #2446, Arizona Cert #AZ0426, Nevada Cert #AZ-907*
9830 S. 51st Street, Suite B-120 - Phoenix, AZ 85044
Method Performed: EPA 8310
Samples: IQD1038-01

TestAmerica - Irvine, CA
Patty Mata
Project Manager

bp Carson Refinery		Bill Facility Directly										Chain of Custody										Page 1 of 1											
Facility Name bp Carson Refinery		City, State (Facility) 1801 E. Sepulveda Blvd., Carson CA 90749					Project Manager (Consultant) John Teravskis					Project No. (Consultant) 021.APC.00					Laboratory Name Test America																
bp Engineer Stefan Gogosha		bp Telephone No. (310) 816-8135					Telephone No. (Consultant) (209) 334-5363 ext 202					Fax No. (Consultant) (209) 334-5374					(949) 261-1022 Patty Mata																
Consultant Company WGR Southwest, Inc.		Consultant Address 315 W. Pine Street, Suite 8, Lodi, CA 95240														Method of Shipment																	
Sample I.D.	Lab Sample No.	No. of Containers	Matrix				Prsv.		Sampling Date	Sampling Time	pH	Detergent (as MBAS)	Hardness (as CaCO3)	Settleable Solids	Turbidity	BOD 5 20C	Total Suspended Solids	Oil & Grease	Residual Chlorine	Sulfides	Metals Full Priority Pollutant List	PAHs (8310)	Toxicity - Acute (see below)	Total Organic Carbon	Full Priority Pollutant List	Tributyltin	Salinity	Dissolved Oxygen	Nitrate (as N)	Ammonia, Total	Turn Around Time (business days)	Special Detection Limit/Reporting	
			Soil	Water	Air	Other	Yes	No																									
Outfall #23 LVW		18	X			X		4-11-07	0750	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								Special QA/QC
Receiving Water A		2	X			X		4-11-07	0820	X		X													X								
Receiving Water B		4	X			X		4-11-07	0835	X															X	X	X	X					
																																Sub'd COC Attch'd:	
Sample Received Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										Temperature received: <input checked="" type="checkbox"/> Ice <input type="checkbox"/> No ice										REMARKS Field pH 7.45 Temp 21.9°C Fax results to (209) 334-5374 and (310) 816-3485													
Relinq. by sampler (Sign & Print Name) STEFAN GOGOSHA										Received by (Sign & Print Name) CARY SCHLEGEL												Lab Work No.											
Relinquished by CARY SCHLEGEL										Received by																							
Relinquished by										Received by laboratory Lab Bank														Rev. 5/5/2005									

#167

LABORATORY REPORT



**Aquatic
Testing
Laboratories**

"dedicated to providing quality aquatic toxicity testing"

Date: April 16, 2007
Client: Test America – Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Patty Mata

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

Laboratory No.: A-07041208-001
Sample ID.: IQD1038-01

Sample Control: The sample was received by ATL in a chilled state, within the recommended hold time and with the chain of custody record attached.

Date Sampled: 04/11/07
Date Received: 04/12/07
Temp. Received: 4°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 04/12/07 to 04/16/07

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


Fathead Minnow 96hr Percent Survival Bioassay (EPA Method 2000.0).

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

Result Summary:

<u>Sample ID.</u>	<u>Results</u>
IQD1038-01	100% Survival (TUa = 0.0)

Quality Control: Reviewed and approved by:


Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST

EPA Method 2000.0



Lab No.: A-07041208-001

Client/ID: TestAmerica IQD1038-01

Start Date: 04/12/2007

TEST SUMMARY

Species: *Pimephales promelas*.

Age: 12 (1-14) days.

Regulations: NPDES.

Test solution volume: 250 ml.

Feeding: prior to renewal at 48 hrs.

Number of replicates: 2.

Dilution water: Moderately hard reconstituted water.

Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.

Test type: Static-Renewal.

Test Protocol: EPA-821-R-02-012.

Endpoints: Percent Survival at 96 hrs.

Test chamber: 600 ml beakers.

Temperature: 20 +/- 1°C.

Number of fish per chamber: 10.

QA/QC Batch No.: RT-070403.

TEST DATA

		TEST DATA					
		°C	DO	pH	# Dead		Analyst & Time of Readings
					A	B	
INITIAL	Control	20.3	9.0	7.8	0	0	Rv 1400
	100%	20.0	8.8	7.1	0	0	
24 Hr	Control	19.9	8.2	7.4	0	0	Rv 1200
	100%	19.9	8.1	7.2	0	0	
48 Hr	Control	19.8	8.4	7.3	0	0	Rv 1200
	100%	19.9	8.6	7.1	0	0	
Renewal	Control	19.6	9.1	7.7	0	0	Rv 1200
	100%	19.6	10.0	7.2	0	0	
72 Hr	Control	19.7	7.6	7.4	0	0	Rv 1430
	100%	19.6	7.4	7.1	0	0	
96 Hr	Control	20.2	7.4	7.4	0	0	Rv 1400
	100%	20.1	7.5	7.3	0	0	

Comments:

Sample as received: Chlorine: 0.0 mg/l; pH: 7.1; Conductivity: 1040 umho; Temp: 4°C;

DO: 8.8 mg/l; Alkalinity: 44 mg/l; Hardness: 420 mg/l; NH₃-N: 3.3 mg/l.

Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / No

Control: Alkalinity: 63 mg/l; Hardness: 98 mg/l; Conductivity: 305 umho.

Test solution aerated (not to exceed 100 bubbles/min) to maintain DO > 4.0 mg/l? Yes / No

Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.

Dissolved Oxygen (DO) readings in mg/l O₂.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 100 %

SUBCONTRACT ORDER

TestAmerica - Irvine, CA

IQD1038

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone : (805) 650-0546
Fax: (805) 650-0756
Project Location: California
Receipt Temperature: 4 °C Ice: (Y) / N

Analysis	Due	Expires	Comments
<hr/>			
Sample ID: IQD1038-01	Water	Sampled: 04/11/07 07:50	
Bioassay-Acute 96hr	04/23/07 12:00	04/12/07 19:50	Sub ATL. Fathead minnow EPA821-R-02-012. 100% eff
<hr/>			
Containers Supplied:			
5 gal Poly (R)			
<hr/>			

Released By

Date

Received By

Date

Released By

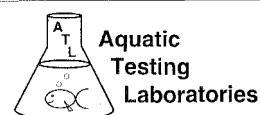
Date

Received By

Date

***REFERENCE
TOXICANT
DATA***

FATHEAD MINNOW ACUTE
Method 2000.0
Reference Toxicant - SDS



QA/QC Batch No.: RT-070403

TEST SUMMARY

Species: *Pimephales promelas*.

Age: 14 days old.

Regulations: NPDES.

Test chamber volume: 250 ml.

Feeding: Prior to renewal at 48 hrs.

Temperature: 20 +/- 1°C.

Number of replicates: 2.

Dilution water: MHSF.

Source: In-lab culture.

Test type: Static-Renewal.

Test Protocol: EPA-821-R-02-012.

Endpoints: LC50 at 96 hrs.

Test chamber: 600 ml glass beakers.

Aeration: None.

Number of organisms per chamber: 10.

Photoperiod: 16/8 hrs light/dark.

TEST DATA

Date/Time:	INITIAL			24 Hr					48 Hr				
	<u>4-3-07 1200</u>			<u>4-4-07 1000</u>					<u>4-5-07 1300</u>				
	<u>Rn</u>			<u>Rn</u>					<u>Rn</u>				
	°C	DO	pH	°C	DO	pH	# Dead		°C	DO	pH	# Dead	
							A	B				A	B
Control	<u>20.6</u>	<u>9.8</u>	<u>7.7</u>	<u>20.3</u>	<u>6.8</u>	<u>7.0</u>	<u>0</u>	<u>0</u>	<u>20.7</u>	<u>6.2</u>	<u>7.2</u>	<u>0</u>	<u>0</u>
1.0 mg/l	<u>20.6</u>	<u>9.8</u>	<u>7.7</u>	<u>20.2</u>	<u>6.8</u>	<u>7.0</u>	<u>0</u>	<u>0</u>	<u>20.7</u>	<u>6.1</u>	<u>7.3</u>	<u>0</u>	<u>0</u>
2.0 mg/l	<u>20.6</u>	<u>9.9</u>	<u>7.7</u>	<u>20.2</u>	<u>6.7</u>	<u>7.0</u>	<u>0</u>	<u>0</u>	<u>20.7</u>	<u>6.5</u>	<u>7.3</u>	<u>1</u>	<u>1</u>
4.0 mg/l	<u>20.6</u>	<u>9.9</u>	<u>7.7</u>	<u>20.2</u>	<u>6.3</u>	<u>7.0</u>	<u>3</u>	<u>3</u>	<u>20.7</u>	<u>6.6</u>	<u>7.3</u>	<u>1</u>	<u>1</u>
8.0 mg/l	<u>20.6</u>	<u>9.9</u>	<u>7.7</u>	<u>20.3</u>	<u>6.6</u>	<u>7.0</u>	<u>10</u>	<u>10</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Date/Time:	RENEWAL			72 Hr					96 Hr				
	<u>4-5-07 1300</u>			<u>4-6-07 1200</u>					<u>4-7-07 1200</u>				
	<u>Rn</u>			<u>Rn</u>					<u>Rn</u>				
	°C	DO	pH	°C	DO	pH	# Dead		°C	DO	pH	# Dead	
							A	B				A	B
Control	<u>20.3</u>	<u>8.8</u>	<u>7.8</u>	<u>20.2</u>	<u>6.6</u>	<u>7.5</u>	<u>0</u>	<u>0</u>	<u>20.5</u>	<u>7.0</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
1.0 mg/l	<u>20.3</u>	<u>8.9</u>	<u>7.8</u>	<u>20.4</u>	<u>7.1</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.5</u>	<u>7.0</u>	<u>7.4</u>	<u>0</u>	<u>1</u>
2.0 mg/l	<u>20.3</u>	<u>8.9</u>	<u>7.8</u>	<u>20.4</u>	<u>7.2</u>	<u>7.3</u>	<u>0</u>	<u>0</u>	<u>20.5</u>	<u>7.1</u>	<u>7.3</u>	<u>1</u>	<u>0</u>
4.0 mg/l	<u>20.3</u>	<u>9.0</u>	<u>7.8</u>	<u>20.4</u>	<u>7.1</u>	<u>7.2</u>	<u>0</u>	<u>0</u>	<u>20.5</u>	<u>7.3</u>	<u>7.2</u>	<u>0</u>	<u>0</u>
8.0 mg/l	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Comments: Control: Alkalinity: 62 mg/l; Hardness: 97 mg/l; Conductivity: 305 umho.

SDS: Alkalinity: 61 mg/l; Hardness: 97 mg/l; Conductivity: 300 umho.

Concentration-response relationship acceptable? (see attached computer analysis):

☒ Yes (response curve normal)

☐ No (dose interrupted indicated or non-normal)

Acute Fish Test-96 Hr Survival

Start Date: 03 Apr-07 12:00 Test ID: RT-070403f Sample ID: REF-Ref Toxicant
End Date: 07 Apr-07 12:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: SDS-Sodium dodecyl sulfate
Sample Date: 03 Apr-07 00:00 Protocol: ACUTE-EPA-821-R-02-012 Test Species: PP-Pimephales promelas
Comments:

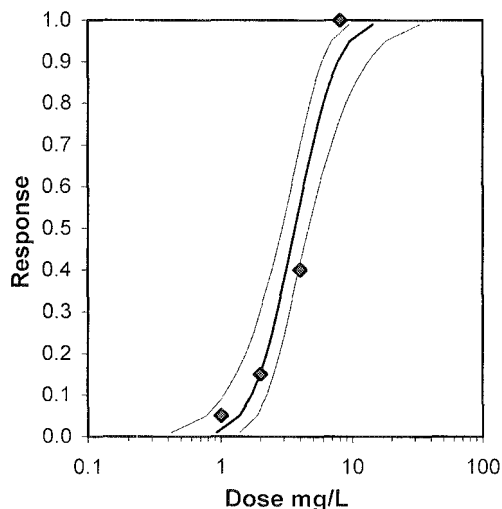
Conc-mg/L	1	2
D-Control	1.0000	1.0000
1	1.0000	0.9000
2	0.8000	0.9000
4	0.6000	0.6000
8	0.0000	0.0000

Transform: Arcsin Square Root								Number	Total
Conc-mg/L	Mean	N-Mean	Mean	Min	Max	CV%	N	Resp	Number
D-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
1	0.9500	0.9500	1.3305	1.2490	1.4120	8.661	2	1	20
2	0.8500	0.8500	1.1781	1.1071	1.2490	8.517	2	3	20
4	0.6000	0.6000	0.8861	0.8861	0.8861	0.000	2	8	20
8	0.0000	0.0000	0.1588	0.1588	0.1588	0.000	2	20	20

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Normality of the data set cannot be confirmed				
Equality of variance cannot be confirmed				

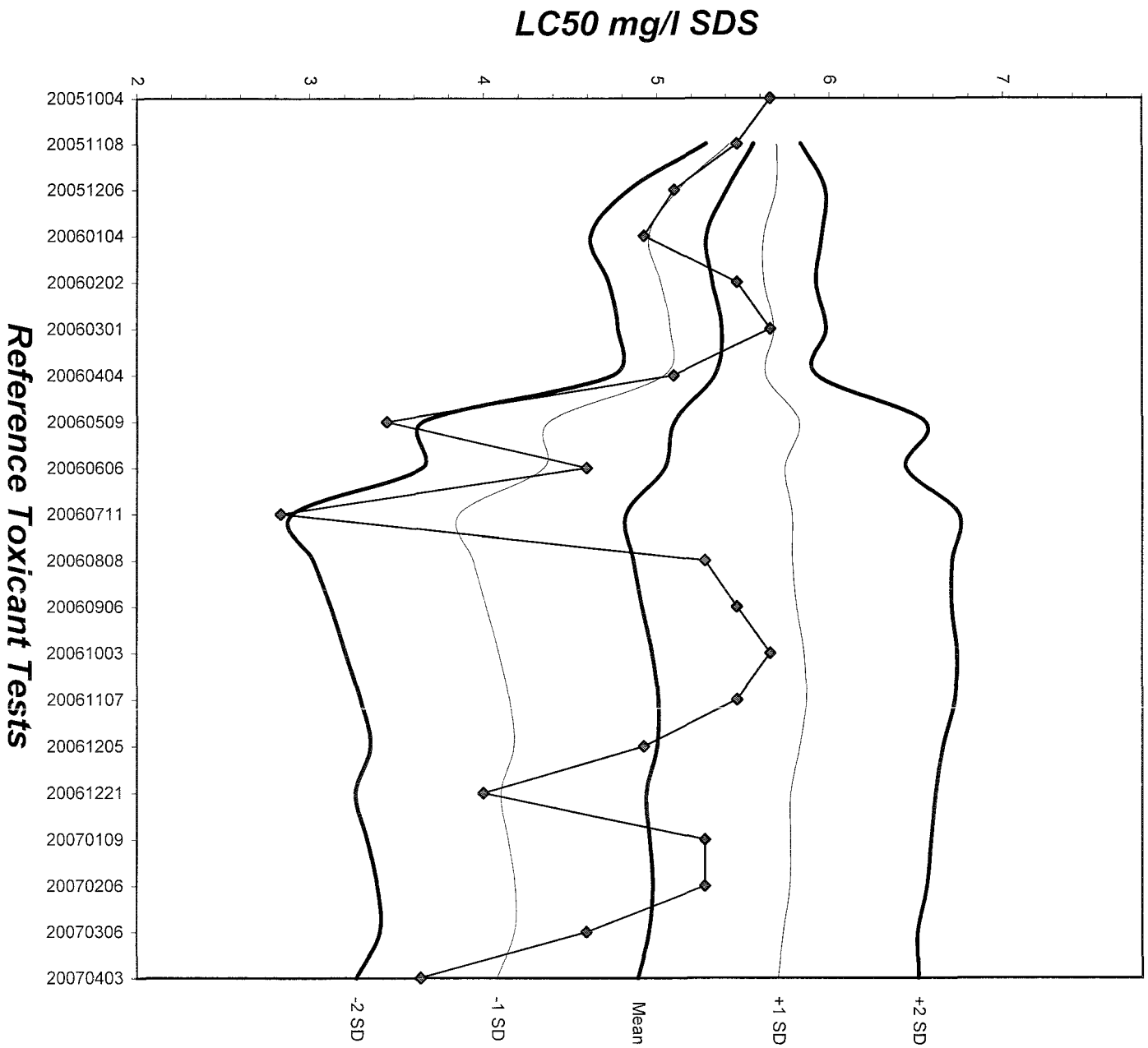
Parameter	Value	SE	95% Fiducial Limits	Maximum Likelihood-Probit						
				Control	Chi-Sq	Critical	P-value	Mu	Sigma	Iter
Slope	3.91861	0.7194	2.5086 5.32862	0	6.03802	9.21035	0.05	0.56074	0.25519	4
Intercept	2.80266	0.43117	1.95758 3.64775							

Point	Probits	mg/L	95% Fiducial Limits	
EC01	2.674	0.92699	0.42096	1.37679
EC05	3.355	1.38353	0.77347	1.88029
EC10	3.718	1.71278	1.06337	2.23348
EC15	3.964	1.97812	1.31253	2.51925
EC20	4.158	2.21803	1.54583	2.78251
EC25	4.326	2.44692	1.77239	3.04108
EC40	4.747	3.13395	2.44819	3.88736
EC50	5.000	3.637	2.91493	4.59629
EC60	5.253	4.22081	3.41474	5.5235
EC75	5.674	5.40591	4.31517	7.7177
EC80	5.842	5.96375	4.70209	8.87529
EC85	6.036	6.68704	5.17989	10.4802
EC90	6.282	7.723	5.82909	12.9659
EC95	6.645	9.56089	6.90889	17.8647
EC99	7.326	14.2696	9.41588	32.8928



Fathhead Minnow Acute Laboratory Control Chart

CV% = 16.6



TEST ORGANISM LOG

FATHEAD MINNOW - LARVAL
(*Pimephales promelas*)



QA/QC BATCH NO.: RT-070403

SOURCE: In-Lab Culture

DATE HATCHED: 3-20-07

APPROXIMATE QUANTITY: 400

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO
TO USE IN TESTING: 0

DATE USED IN LAB: 4/3/07

AVERAGE FISH WEIGHT: 0.006 gm

TEST LOADING LIMITS: 0.65 gm/liter

200 ml test solution volume = 0.013 gm mean fish weight limit

250 ml test solution volume = 0.016 gm mean fish weight limit

ACCLIMATION WATER QUALITY:

Temp.: 20.6 °C

pH: 7.7

Ammonia: 0.1 mg/l NH₃-N

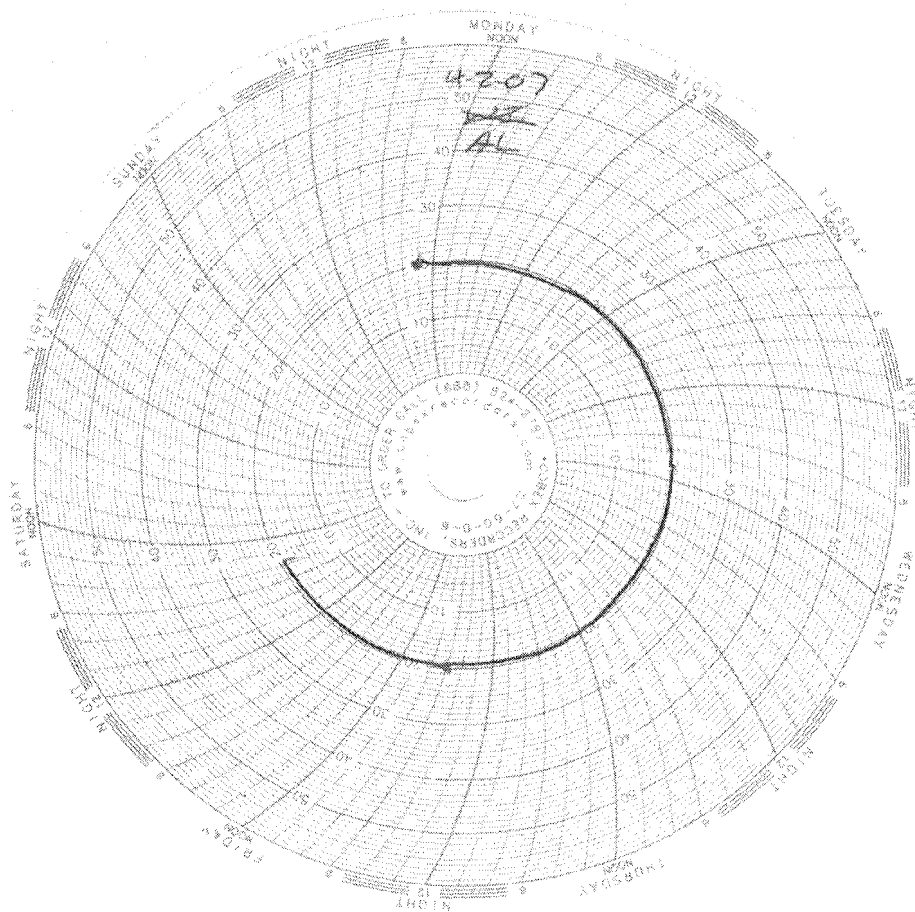
DO: 9.8 mg/l

Alkalinity: 62 mg/l

Hardness: 97 mg/l

READINGS RECORDED BY: [Signature]

DATE: 4-3-07





STL Sacramento

880 Riverside Parkway
West Sacramento, CA 95605

Tel: 916 373 5600

Fax: 916 372 1059

www.stl-inc.com

April 28, 2007

STL SACRAMENTO PROJECT NUMBER: G7D130329

PO/CONTRACT: IQD1038

Patty Mata
TestAmerica Analytical Testing
17461 Derian Ave., Ste 100
Irvine, CA 92614-5817

Dear Ms. Mata,

This report contains the analytical results for the sample received under chain of custody by STL Sacramento on April 13, 2007. This sample is associated with your IQD1038 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4433.

Sincerely,

Robert Hrabak
Project Manager

TABLE OF CONTENTS

STL SACRAMENTO PROJECT NUMBER G7D130329

Case Narrative

STL Sacramento Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

WATER, 8290, 2,3,7,8-TCDD

Sample: 1

Sample Data Sheet

Method Blank Report

Laboratory QC Reports

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G7D130329

General Comments

Sample was received at 1 degree Celsius, with wet ice used as cooling agent.

WATER, 8290, 2,3,7,8-TCDD only

Sample(s): 1

The percent recovery (%R) value for 2,3,7,8-TCDD in the laboratory control sample duplicate (LCSD) was beyond the LCSD control limit but within the marginal exceedence limit. In accordance with NELAC guidelines, the LCSD was evaluated, and it was determined that this met the criteria for a sporadic marginal exceedence. Therefore the LCSD is considered acceptable and no further corrective action is required.

There were no other anomalies associated with this project.

STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon*	CA 200005
Arizona	AZ0616	Pennsylvania	68-1272
Arkansas	04-067-0	South Carolina	87014002
California*	01119CA	Texas	TX 270-2004A
Colorado	NA	Utah*	QUAN1
Connecticut	PH-0691	Virginia	00178
Florida*	E87570	Washington	C087
Georgia	960	West Virginia	9930C, 334
Hawaii	NA	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Michigan	9947	USACE	NA
Nevada	CA44	USDA Foreign Plant	37-82605
New Jersey*	CA005	USDA Foreign Soil	S-46613
New York*	11666		

*NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):

An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

G7D130329

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
JTXD0	1	IQD1038-01	4/11/2007 07:50 AM	4/13/2007 08:50 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

SUBCONTRACT ORDER - PROJECT # IQD1038

SENDING LABORATORY:

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

RECEIVING LABORATORY:

STL - Sacramento, CA (Sub) [1]
880 Riverside Parkway
West Sacramento, CA 95605
Phone : (916) 373-5600
Fax: (916) 372-1059

Project Location: California

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

Analysis	Expiration	Due	Interlab Price	Surch	Comments
Sample ID: IQD1038-01 Water	Sampled: 04/11/07 07:50				
8290-Diox-TCDD only	04/18/07 07:50	04/25/07 12:00	\$ 0.00	0%	Sub STL-Sacramento. BP Wastewater TCDD only
Containers Supplied:					
1 L Amber (IQD1038-01C)					

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

Date

Time

Received By

Date

Time

Released By

Date

Time

Received By

Date

Time



STL

LOT RECEIPT CHECKLIST STL Sacramento

CLIENT TA - Irvine PM RA LOG # 44750
LOT# (QUANTIMS ID) G7D130329 QUOTE# 24133 LOCATION N8B

DATE RECEIVED 4-13-07 TIME RECEIVED 0850

Initials Ram Date 4-13-07

DELIVERED BY ☒ FEDEX ☐ CA OVERNIGHT ☐ CLIENT
☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL
☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS
☐ STL COURIER ☐ COURIERS ON DEMAND
☐ OTHER

CUSTODY SEAL STATUS ☒ INTACT ☐ BROKEN ☐ N/A

CUSTODY SEAL #(S) N/A

SHIPPING CONTAINER(S) ☐ STL ☒ CLIENT ☐ N/A
TEMPERATURE RECORD (IN °C) IR 1 ☐ 3 ☐ OTHER 4

COC #(S) N/A

TEMPERATURE BLANK Observed: N/A Corrected: _____

SAMPLE TEMPERATURE
Observed: 1 1 — Average: 1 Corrected Average: 1

COLLECTOR'S NAME: ☐ Verified from COC ☐ Not on COC

pH MEASURED ☐ YES ☐ ANOMALY ☒ N/A

LABELED BY _____

LABELS CHECKED BY _____
PEER REVIEW ☒ N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING
WETCHEM ☒ N/A
VOA-ENCORES ☒ N/A

☒ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☐ N/A

☐ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH
APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☒ N/A

☒ Clouseau ☒ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☐ N/A

☒ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED

Notes: _____ ☒ PM NOTIFIED

Lot
ID: G7D130329

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

n = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

WATER, 8290,
2,3,7,8-TCDD

TestAmerica - Irvine

Client Sample ID: IQD1038-01

Trace Level Organic Compounds

Lot-Sample #....: G7D130329-001 Work Order #....: JTXD01AA Matrix.....: WATER
 Date Sampled...: 04/11/07 Date Received...: 04/13/07
 Prep Date.....: 04/19/07 Analysis Date...: 04/23/07
 Prep Batch #....: 7110242
 Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	ND	2.3	pg/L	SW846 8290

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	77	(40 - 135)

QC DATA ASSOCIATION SUMMARY

G7D130329

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	SW846 8290		7110242	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G7D130329 Work Order #...: JVCF81AA Matrix.....: WATER
 MB Lot-Sample #: G7D200000-242 Prep Date.....: 04/19/07
 Analysis Date...: 04/22/07 Prep Batch #...: 7110242
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	2.9	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	79	(40 - 135)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G7D130329 Work Order #...: JVCF81AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: G7D200000-242 JVCF81AD-LCSD
 Prep Date.....: 04/19/07 Analysis Date...: 04/22/07
 Prep Batch #...: 7110242
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
2,3,7,8-TCDD	200	158	pg/L	79		SW846 8290
	200	162	pg/L	81	2.8	SW846 8290

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	62	(40 - 135)
	91	(40 - 135)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #....: G7D130329 Work Order #....: JVCF81AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: G7D200000-242 JVCF81AD-LCSD
 Prep Date.....: 04/19/07 Analysis Date...: 04/22/07
 Prep Batch #....: 7110242
 Dilution Factor: 1

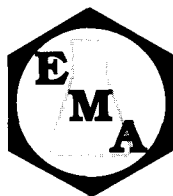
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,3,7,8-TCDD	79	(70 - 130)			SW846 8290
	81	(70 - 130)	2.8	(0-20)	SW846 8290

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	62	(40 - 135)
	91	(40 - 135)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters



20 April 2007

Test America-Irvine
Attn: Patty Mata
17461 Derian Avenue, Suite 100
Irvine, CA 92614-5817

EMA Log #: 0704190

Project Name: IQD1038

Enclosed are the results of analyses for samples received by the laboratory on 04/12/07 12:26. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that this data is in compliance both technically and for completeness.

A handwritten signature in black ink, appearing to read 'Dan Verdon', is written over a horizontal line.

Dan Verdon
Laboratory Director

CA ELAP Certification #: 2564

Client Name: Test America-Irvine
Project Name: IQD1038

EMA Log #: 0704190

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
IQD1038-01	0704190-01	Water	04/11/07 07:50	04/12/07 12:26

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: Test America-Irvine
Project Name: IQD1038

EMA Log #: 0704190

Organotin Compounds by GC - FPD

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
IQD1038-01 (0704190-01) Water Sampled: 04/11/07 07:50 Received: 04/12/07 12:26										
Tributyltin	ND	0.004	0.005	ug/l	1	7041701	04/17/07	04/19/07	GC - FPD	
Dibutyltin	ND	0.007	0.020	"	"	"	"	"	"	
Monobutyltin	ND	0.012	0.020	"	"	"	"	"	"	
<i>Surrogate: Tripentyltin</i>		87 %	71-128			"	"	"	"	
<i>Surrogate: Tri-n-propyltin</i>		86 %	67-130			"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Test America-Irvine
Project Name: IQD1038

EMA Log #: 0704190

Organotin Compounds by GC - FPD - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7041701											
Blank (7041701-BLK1)						Prepared: 04/17/07 Analyzed: 04/19/07					
Tributyltin	ND	0.004	0.005	ug/l							
Dibutyltin	ND	0.007	0.020	"							
Monobutyltin	ND	0.012	0.020	"							
Surrogate: Triphenyltin	0.206			"	0.250		82	71-128			
Surrogate: Tri-n-propyltin	0.216			"	0.250		86	67-130			
LCS (7041701-BS1)						Prepared: 04/17/07 Analyzed: 04/19/07					
Tributyltin	0.230	0.004	0.005	ug/l	0.250		92	65-138			
Dibutyltin	0.228	0.007	0.020	"	0.249		92	5-88			QL-05
Monobutyltin	0.041	0.012	0.020	"	0.250		16	0-88			
Surrogate: Triphenyltin	0.212			"	0.250		85	71-128			
Surrogate: Tri-n-propyltin	0.226			"	0.250		90	67-130			
LCS Dup (7041701-BSD1)						Prepared: 04/17/07 Analyzed: 04/19/07					
Tributyltin	0.254	0.004	0.005	ug/l	0.250		102	65-138	10	30	
Dibutyltin	0.246	0.007	0.020	"	0.249		99	5-88	8	30	QL-05
Monobutyltin	0.039	0.012	0.020	"	0.250		16	0-88	5	30	
Surrogate: Triphenyltin	0.214			"	0.250		86	71-128			
Surrogate: Tri-n-propyltin	0.235			"	0.250		94	67-130			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: Test America-Irvine
Project Name: IQD1038

EMA Log #: 0704190

Notes and Definitions

QL-05 Recovery for this analyte is better than statistically derived limits.

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis (if indicated in units column)

RPD Relative Percent Difference

MDL Method detection limit (indicated per client's request)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



0704190

SUBCONTRACT ORDER

TestAmerica - Irvine, CA

IQD1038

SENDING LABORATORY:

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

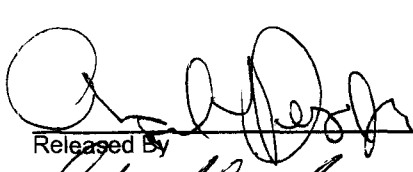
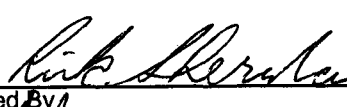
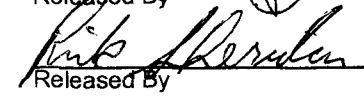

RECEIVING LABORATORY:

EnviroMatrix Analytical, Inc.
4340 Viewridge Avenue, Suite A
San Diego, CA 92123
Phone: (858) 560-7717
Fax: (858) 560-7763
Project Location: California
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Due	Expires	Comments
Sample ID: IQD1038-01	Water	Sampled: 04/11/07 07:50	
Tributyl Tin-OUT	04/23/07 12:00	04/25/07 07:50	Sub Environmatrix. Wastewater sample
Containers Supplied: 1 L Amber (D)			

APR 12 '07 10:57

T = 15°C
TAT = 7d

	4-12-07	1025		4-12-07	1025
Released By	Date		Received By	Date	
	4-12-07	1226		4/12/07	1226
Released By	Date		Received By	Date	