Analytical and Quality Control Report

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Report Date: January 9, 2007

Work Order: 6122117

Project Name: HELSTF Groundwater Samples
Project Number: 7

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
112445	HLSF-0085-HMW-036-1206	water	2006-12-20	10:44	2006-12-20
112446	HLSF-0085-TB-764-1206	water	2006-12-20	10:44	2006-12-20

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 35 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 112445 - HLSF-0085-HMW-036-1206

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	33250	Date Analyzed:	2006-12-29	Analyzed By:	JG
Prep Batch:	28901	Sample Preparation:	2006-12-29	Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**362**	mg/L as CaCo3	1	4.00
Total Alkalinity		**362**	mg/L as CaCo3	1	4.00

Sample: 112445 - HLSF-0085-HMW-036-1206

Analysis:	Ammonia	Analytical Method:	SM 4500-NH3 B,C	Prep Method:	N/A
QC Batch:	33349	Date Analyzed:	2007-01-03	Analyzed By:	SM
Prep Batch:	28981	Sample Preparation:	2007-01-03	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Ammonia-N		<1.00	mg/L	1	1.00

Sample: 112445 - HLSF-0085-HMW-036-1206

Analysis:	Conductivity	Analytical Method:	SM 2510B	Prep Method:	N/A
QC Batch:	33069	Date Analyzed:	2006-12-21	Analyzed By:	DR
Prep Batch:	28744	Sample Preparation:	2006-12-21	Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Specific Conductance		**77000**	µMHOS/cm	1	0.00

Sample: 112445 - HLSF-0085-HMW-036-1206

Analysis:	Dissolved Metals	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	33149	Date Analyzed:	2006-12-27	Analyzed By:	RR
Prep Batch:	28730	Sample Preparation:	2006-12-22	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Silver		<0.00200	mg/L	1	0.00200
Dissolved Cadmium		<0.00100	mg/L	1	0.00100
Dissolved Chromium		<0.00500	mg/L	1	0.00500
Dissolved Copper		<0.0125	mg/L	1	0.0125
Dissolved Lead		<0.00500	mg/L	1	0.00500
Dissolved Zinc		<0.00500	mg/L	1	0.00500

Sample: 112445 - HLSF-0085-HMW-036-1206

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	33102	Date Analyzed:	2006-12-21	Analyzed By:	WB
Prep Batch:	28774	Sample Preparation:	2006-12-21	Prepared By:	WB
QC Batch:	33103	Date Analyzed:	2006-12-22	Analyzed By:	WB
Prep Batch:	28775	Sample Preparation:	2006-12-21	Prepared By:	WB
QC Batch:	33182	Date Analyzed:	2006-12-27	Analyzed By:	WB
Prep Batch:	28842	Sample Preparation:	2006-12-27	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Bromide		<1.00	mg/L	5	0.200
Chloride		**492**	mg/L	100	0.500
Fluoride		**5.62**	mg/L	5	0.200
Nitrite-N		<1.00	mg/L	5	0.200
Nitrate-N		**20.4**	mg/L	5	0.200
Sulfate		**4970**	mg/L	500	0.500

Sample: 112445 - HLSF-0085-HMW-036-1206

Analysis:	pH	Analytical Method:	SM 4500-H+	Prep Method:	N/A
QC Batch:	33064	Date Analyzed:	2006-12-21	Analyzed By:	DR
Prep Batch:	28740	Sample Preparation:	2006-12-21	Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
pH		**7.25**	s.u.	1	0.00

Sample: 112445 - HLSF-0085-HMW-036-1206

Analysis:	Salts, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	33296	Date Analyzed:	2007-01-02	Analyzed By:	TP
Prep Batch:	28730	Sample Preparation:	2006-12-22	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Sodium		**919**	mg/L	10	0.500

Sample: 112445 - HLSF-0085-HMW-036-1206

Analysis:	Salts, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	33316	Date Analyzed:	2007-01-02	Analyzed By:	TP
Prep Batch:	28854	Sample Preparation:	2006-12-28	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Sodium		**948**	mg/L	10	0.500

Sample: 112445 - HLSF-0085-HMW-036-1206

Analysis:	Semivolatiles WTS	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	33110	Date Analyzed:	2006-12-23	Analyzed By:	DS
Prep Batch:	28782	Sample Preparation:	2006-12-22	Prepared By:	DS

Parameter	Flag	Result	RL Units	Dilution	RL
Pyridine		<0.00500	mg/L	1	0.00500
n-Nitrosodimethylamine		<0.00500	mg/L	1	0.00500
2-Picoline		<0.00500	mg/L	1	0.00500
Methyl methanesulfonate		<0.00500	mg/L	1	0.00500
Ethyl methanesulfonate		<0.00500	mg/L	1	0.00500
Phenol		<0.00500	mg/L	1	0.00500
Aniline		<0.00500	mg/L	1	0.00500
bis(2-chloroethyl)ether		<0.00500	mg/L	1	0.00500
2-Chlorophenol		<0.00500	mg/L	1	0.00500
1,3-Dichlorobenzene (meta)		<0.00500	mg/L	1	0.00500
1,4-Dichlorobenzene (para)		<0.00500	mg/L	1	0.00500
Benzyl alcohol		<0.00500	mg/L	1	0.00500
1,2-Dichlorobenzene (ortho)		<0.00500	mg/L	1	0.00500
2-Methylphenol		<0.00500	mg/L	1	0.00500
bis(2-chloroisopropyl)ether		<0.00500	mg/L	1	0.00500
4-Methylphenol / 3-Methylphenol		<0.00500	mg/L	1	0.00500
Acetophenone		<0.00500	mg/L	1	0.00500
n-Nitrosodi-n-propylamine		<0.00500	mg/L	1	0.00500
Hexachloroethane		<0.00500	mg/L	1	0.00500
Nitrobenzene		<0.00500	mg/L	1	0.00500
n-Nitrosopiperidine		<0.00500	mg/L	1	0.00500
Isophorone		<0.00500	mg/L	1	0.00500
2-Nitrophenol		<0.00500	mg/L	1	0.00500
2,4-Dimethylphenol		<0.00500	mg/L	1	0.00500
bis(2-chloroethoxy)methane		<0.00500	mg/L	1	0.00500
Benzoic acid		<0.00500	mg/L	1	0.00500
2,4-Dichlorophenol		<0.00500	mg/L	1	0.00500
1,2,4-Trichlorobenzene		<0.00500	mg/L	1	0.00500
a,a-Dimethylphenethylamine		<0.00500	mg/L	1	0.00500
Naphthalene		<0.00500	mg/L	1	0.00500
4-Chloroaniline		<0.00500	mg/L	1	0.00500
2,6-Dichlorophenol		<0.0100	mg/L	1	0.0100
Hexachlorobutadiene		<0.00500	mg/L	1	0.00500
n-Nitroso-di-n-butylamine		<0.00500	mg/L	1	0.00500
4-Chloro-3-methylphenol		<0.00500	mg/L	1	0.00500
1-Methylnaphthalene		**0.00530**	mg/L	1	0.00500
2-Methylnaphthalene		<0.00500	mg/L	1	0.00500
1,2,4,5-Tetrachlorobenzene		<0.00500	mg/L	1	0.00500
Hexachlorocyclopentadiene		<0.00500	mg/L	1	0.00500
2,4,6-Trichlorophenol		<0.0100	mg/L	1	0.0100
2,4,5-Trichlorophenol		<0.00500	mg/L	1	0.00500
2-Chloronaphthalene		<0.00500	mg/L	1	0.00500
1-Chloronaphthalene		<0.00500	mg/L	1	0.00500
2-Nitroaniline		<0.00500	mg/L	1	0.00500
Dimethylphthalate		<0.00500	mg/L	1	0.00500
Acenaphthylene		<0.00500	mg/L	1	0.00500

continued . . .

sample 112445 continued . . .

Parameter	Flag	Result	RL	Units	Dilution	RL
2,6-Dinitrotoluene		<0.00500		mg/L	1	0.00500
3-Nitroaniline		<0.00500		mg/L	1	0.00500
Acenaphthene		<0.00500		mg/L	1	0.00500
2,4-Dinitrophenol		<0.00500		mg/L	1	0.00500
Dibenzofuran		<0.00500		mg/L	1	0.00500
Pentachlorobenzene		<0.00500		mg/L	1	0.00500
4-Nitrophenol		<0.0250		mg/L	1	0.0250
1-Naphthylamine		<0.00500		mg/L	1	0.00500
2,4-Dinitrotoluene		<0.00500		mg/L	1	0.00500
2-Naphthylamine		<0.00500		mg/L	1	0.00500
2,3,4,6-Tetrachlorophenol		<0.0100		mg/L	1	0.0100
Fluorene		<0.00500		mg/L	1	0.00500
Diethylphthalate		<0.00500		mg/L	1	0.00500
4-Chlorophenyl-phenylether		<0.00500		mg/L	1	0.00500
4-Nitroaniline		<0.00500		mg/L	1	0.00500
4,6-Dinitro-2-methylphenol		<0.00500		mg/L	1	0.00500
Diphenylamine		<0.00500		mg/L	1	0.00500
Diphenylhydrazine		<0.00500		mg/L	1	0.00500
4-Bromophenyl-phenylether		<0.00500		mg/L	1	0.00500
Phenacetin		<0.00500		mg/L	1	0.00500
Hexachlorobenzene		<0.00500		mg/L	1	0.00500
4-Aminobiphenyl		<0.00500		mg/L	1	0.00500
Pentachlorophenol		<0.0100		mg/L	1	0.0100
Pentachloronitrobenzene		<0.00500		mg/L	1	0.00500
Pronamide		<0.00500		mg/L	1	0.00500
Phenanthrene		<0.00500		mg/L	1	0.00500
Anthracene		<0.00500		mg/L	1	0.00500
Di-n-butylphthalate		<0.00500		mg/L	1	0.00500
Fluoranthene		<0.00500		mg/L	1	0.00500
Benzidine		<0.0250		mg/L	1	0.0250
Pyrene		<0.00500		mg/L	1	0.00500
p-Dimethylaminoazobenzene		<0.00500		mg/L	1	0.00500
Butylbenzylphthalate		<0.00500		mg/L	1	0.00500
Benzo(a)anthracene		<0.00500		mg/L	1	0.00500
3,3-Dichlorobenzidine		<0.00500		mg/L	1	0.00500
Chrysene		<0.00500		mg/L	1	0.00500
bis(2-ethylhexyl)phthalate		<0.00500		mg/L	1	0.00500
Di-n-octylphthalate		<0.00500		mg/L	1	0.00500
Benzo(b)fluoranthene		<0.00500		mg/L	1	0.00500
7,12-Dimethylbenz(a)anthracene		<0.00500		mg/L	1	0.00500
Benzo(k)fluoranthene		<0.00500		mg/L	1	0.00500
Benzo(a)pyrene		<0.00500		mg/L	1	0.00500
3-Methylcholanthrene		<0.00500		mg/L	1	0.00500
Dibenzo(a,j)acridine		<0.00500		mg/L	1	0.00500
Indeno(1,2,3-cd)pyrene		<0.00500		mg/L	1	0.00500
Dibenzo(a,h)anthracene		<0.00500		mg/L	1	0.00500
Benzo(g,h,i)perylene		<0.00500		mg/L	1	0.00500
2-Butoxy Ethanol		<0.00500		mg/L	1	0.00500

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.0259	mg/L	1	0.0800	32	10 - 75.1
Phenol-d5		0.0163	mg/L	1	0.0800	20	10 - 56.2
Nitrobenzene-d5		0.0675	mg/L	1	0.0800	84	18.1 - 108
2-Fluorobiphenyl		0.0664	mg/L	1	0.0800	83	20 - 112
2,4,6-Tribromophenol		0.0793	mg/L	1	0.0800	99	10 - 135
Terphenyl-d14		0.0686	mg/L	1	0.0800	86	28.2 - 134

Sample: 112445 - HLSF-0085-HMW-036-1206

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	33264	Date Analyzed:	2006-12-26	Analyzed By:	JG
Prep Batch:	28911	Sample Preparation:	2006-12-26	Prepared By:	JR

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**8060**	mg/L	1	5.00

Sample: 112445 - HLSF-0085-HMW-036-1206

Analysis:	Total Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	33219	Date Analyzed:	2006-12-29	Analyzed By:	RR
Prep Batch:	28854	Sample Preparation:	2006-12-28	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Silver		<0.00200	mg/L	1	0.00200
Total Cadmium		<0.00100	mg/L	1	0.00100
Total Chromium		<0.00500	mg/L	1	0.00500
Total Copper		<0.00500	mg/L	1	0.00500
Total Phosphorous		<0.0500	mg/L	1	0.0500
Total Lead		<0.00500	mg/L	1	0.00500
Total Zinc		<0.00500	mg/L	1	0.00500

Sample: 112445 - HLSF-0085-HMW-036-1206

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	33057	Date Analyzed:	2006-12-22	Analyzed By:	SP
Prep Batch:	28733	Sample Preparation:	2006-12-22	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		15.1	mg/L	1	15.0	101	57 - 132.3

Sample: 112445 - HLSF-0085-HMW-036-1206

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	33089	Date Analyzed:	2006-12-22	Analyzed By:	MT
Prep Batch:	28763	Sample Preparation:	2006-12-22	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.100	mg/L	1	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0833	mg/L	1	0.100	83	58.5 - 135
4-Bromofluorobenzene (4-BFB)		0.0761	mg/L	1	0.100	76	66.8 - 115

Sample: 112445 - HLSF-0085-HMW-036-1206

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 3510C
QC Batch:	33281	Date Analyzed:	2006-12-29	Analyzed By:	JG
Prep Batch:	28923	Sample Preparation:	2006-12-29	Prepared By:	JG

Parameter	Flag	RL Result	Units	Dilution	RL
Bromochloromethane		<1.00	µg/L	1	1.00
Dichlorodifluoromethane		<1.00	µg/L	1	1.00
Chloromethane (methyl chloride)		<1.00	µg/L	1	1.00
Vinyl Chloride		<1.00	µg/L	1	1.00
Bromomethane (methyl bromide)		<5.00	µg/L	1	5.00
Chloroethane		<1.00	µg/L	1	1.00
Trichlorofluoromethane		<1.00	µg/L	1	1.00
Acetone		<10.0	µg/L	1	10.0
Iodomethane (methyl iodide)		<5.00	µg/L	1	5.00
Carbon Disulfide		<1.00	µg/L	1	1.00
Acrylonitrile		<1.00	µg/L	1	1.00
2-Butanone (MEK)		<5.00	µg/L	1	5.00
4-Methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5.00
2-Hexanone		<5.00	µg/L	1	5.00
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10.0
1,1-Dichloroethene		<1.00	µg/L	1	1.00
Methylene chloride		<5.00	µg/L	1	5.00
MTBE		<1.00	µg/L	1	1.00
trans-1,2-Dichloroethene		<1.00	µg/L	1	1.00
1,1-Dichloroethane		**2.35**	µg/L	1	1.00
cis-1,2-Dichloroethene		<1.00	µg/L	1	1.00
2,2-Dichloropropane		<1.00	µg/L	1	1.00
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1.00
Chloroform		<1.00	µg/L	1	1.00
1,1,1-Trichloroethane		<1.00	µg/L	1	1.00
1,1-Dichloropropene		<1.00	µg/L	1	1.00
Benzene		<1.00	µg/L	1	1.00
Carbon Tetrachloride		<1.00	µg/L	1	1.00
1,2-Dichloropropane		<1.00	µg/L	1	1.00

continued . . .

sample 112445 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Trichloroethene (TCE)		<1.00		µg/L	1	1.00
Dibromomethane (methylene bromide)		<1.00		µg/L	1	1.00
Bromodichloromethane		<1.00		µg/L	1	1.00
2-Chloroethyl vinyl ether		<5.00		µg/L	1	5.00
cis-1,3-Dichloropropene		<1.00		µg/L	1	1.00
trans-1,3-Dichloropropene		<1.00		µg/L	1	1.00
Toluene		<1.00		µg/L	1	1.00
1,1,2-Trichloroethane		<1.00		µg/L	1	1.00
1,3-Dichloropropane		<1.00		µg/L	1	1.00
Dibromochloromethane		<1.00		µg/L	1	1.00
1,2-Dibromoethane (EDB)		<1.00		µg/L	1	1.00
Tetrachloroethene (PCE)		<1.00		µg/L	1	1.00
Chlorobenzene		<1.00		µg/L	1	1.00
1,1,1,2-Tetrachloroethane		<1.00		µg/L	1	1.00
Ethylbenzene		<1.00		µg/L	1	1.00
m,p-Xylene		<1.00		µg/L	1	1.00
Bromoform		<1.00		µg/L	1	1.00
Styrene		<1.00		µg/L	1	1.00
o-Xylene		<1.00		µg/L	1	1.00
1,1,2,2-Tetrachloroethane		<1.00		µg/L	1	1.00
2-Chlorotoluene		<1.00		µg/L	1	1.00
1,2,3-Trichloropropane		<1.00		µg/L	1	1.00
Isopropylbenzene		<1.00		µg/L	1	1.00
Bromobenzene		<1.00		µg/L	1	1.00
n-Propylbenzene		<1.00		µg/L	1	1.00
1,3,5-Trimethylbenzene		<1.00		µg/L	1	1.00
tert-Butylbenzene		<1.00		µg/L	1	1.00
1,2,4-Trimethylbenzene		<1.00		µg/L	1	1.00
1,4-Dichlorobenzene (para)		<1.00		µg/L	1	1.00
sec-Butylbenzene		<1.00		µg/L	1	1.00
1,3-Dichlorobenzene (meta)		<1.00		µg/L	1	1.00
p-Isopropyltoluene		<1.00		µg/L	1	1.00
4-Chlorotoluene		<1.00		µg/L	1	1.00
1,2-Dichlorobenzene (ortho)		<1.00		µg/L	1	1.00
n-Butylbenzene		<1.00		µg/L	1	1.00
1,2-Dibromo-3-chloropropane		<5.00		µg/L	1	5.00
1,2,3-Trichlorobenzene		<5.00		µg/L	1	5.00
1,2,4-Trichlorobenzene		<5.00		µg/L	1	5.00
Naphthalene		<5.00		µg/L	1	5.00
Hexachlorobutadiene		<5.00		µg/L	1	5.00
Isopropyl Alcohol		<5.00		µg/L	1	5.00
Tert-butyl Alcohol		<5.00		µg/L	1	5.00
1,4-Dioxane		<5.00		µg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		54.3	µg/L	1	50.0	109	82.4 - 115
Toluene-d8		50.3	µg/L	1	50.0	101	89.7 - 108
4-Bromofluorobenzene (4-BFB)		47.8	µg/L	1	50.0	96	84.6 - 114

Sample: 112446 - HLSF-0085-TB-764-1206

Analysis:	Volatiles WTS	Analytical Method:	S 8260B	Prep Method:	S 3510C
QC Batch:	33281	Date Analyzed:	2006-12-29	Analyzed By:	JG
Prep Batch:	28923	Sample Preparation:	2006-12-29	Prepared By:	JG

Parameter	Flag	Result	RL Units	Dilution	RL
Bromochloromethane		<1.00	µg/L	1	1.00
Dichlorodifluoromethane		<1.00	µg/L	1	1.00
Chloromethane (methyl chloride)		<1.00	µg/L	1	1.00
Vinyl Chloride		<1.00	µg/L	1	1.00
Bromomethane (methyl bromide)		<5.00	µg/L	1	5.00
Chloroethane		<1.00	µg/L	1	1.00
Trichlorofluoromethane		<1.00	µg/L	1	1.00
Acetone		<10.0	µg/L	1	10.0
Iodomethane (methyl iodide)		<5.00	µg/L	1	5.00
Carbon Disulfide		<1.00	µg/L	1	1.00
Acrylonitrile		<1.00	µg/L	1	1.00
2-Butanone (MEK)		<5.00	µg/L	1	5.00
4-Methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5.00
2-Hexanone		<5.00	µg/L	1	5.00
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10.0
1,1-Dichloroethene		<1.00	µg/L	1	1.00
Methylene chloride		<5.00	µg/L	1	5.00
MTBE		<1.00	µg/L	1	1.00
trans-1,2-Dichloroethene		<1.00	µg/L	1	1.00
1,1-Dichloroethane		<1.00	µg/L	1	1.00
cis-1,2-Dichloroethene		<1.00	µg/L	1	1.00
2,2-Dichloropropane		<1.00	µg/L	1	1.00
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1.00
Chloroform		<1.00	µg/L	1	1.00
1,1,1-Trichloroethane		<1.00	µg/L	1	1.00
1,1-Dichloropropene		<1.00	µg/L	1	1.00
Benzene		<1.00	µg/L	1	1.00
Carbon Tetrachloride		<1.00	µg/L	1	1.00
1,2-Dichloropropane		<1.00	µg/L	1	1.00
Trichloroethene (TCE)		<1.00	µg/L	1	1.00
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1.00
Bromodichloromethane		<1.00	µg/L	1	1.00
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5.00
cis-1,3-Dichloropropene		<1.00	µg/L	1	1.00
trans-1,3-Dichloropropene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
1,1,2-Trichloroethane		<1.00	µg/L	1	1.00
1,3-Dichloropropane		<1.00	µg/L	1	1.00
Dibromochloromethane		<1.00	µg/L	1	1.00
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1.00
Tetrachloroethene (PCE)		<1.00	µg/L	1	1.00
Chlorobenzene		<1.00	µg/L	1	1.00
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
Bromoform		<1.00	µg/L	1	1.00

continued . . .

sample 112446 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Styrene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1.00
2-Chlorotoluene		<1.00	µg/L	1	1.00
1,2,3-Trichloropropane		<1.00	µg/L	1	1.00
Isopropylbenzene		<1.00	µg/L	1	1.00
Bromobenzene		<1.00	µg/L	1	1.00
n-Propylbenzene		<1.00	µg/L	1	1.00
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1.00
tert-Butylbenzene		<1.00	µg/L	1	1.00
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1.00
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1.00
sec-Butylbenzene		<1.00	µg/L	1	1.00
1,3-Dichlorobenzene (meta)		<1.00	µg/L	1	1.00
p-Isopropyltoluene		<1.00	µg/L	1	1.00
4-Chlorotoluene		<1.00	µg/L	1	1.00
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1.00
n-Butylbenzene		<1.00	µg/L	1	1.00
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5.00
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5.00
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5.00
Naphthalene		<5.00	µg/L	1	5.00
Hexachlorobutadiene		<5.00	µg/L	1	5.00
Isopropyl Alcohol		<5.00	µg/L	1	5.00
Tert-butyl Alcohol		<5.00	µg/L	1	5.00
1,4-Dioxane		<5.00	µg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		54.4	µg/L	1	50.0	109	82.4 - 115
Toluene-d8		50.2	µg/L	1	50.0	100	89.7 - 108
4-Bromofluorobenzene (4-BFB)		47.9	µg/L	1	50.0	96	84.6 - 114

Method Blank (1) QC Batch: 33057

QC Batch: 33057 Date Analyzed: 2006-12-22 Analyzed By: SP
Prep Batch: 28733 QC Preparation: 2006-12-22 Prepared By: SP

Parameter	Flag	MDL Result	Units	RL
DRO		<1.19	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		14.4	mg/L	1	15.0	96	57 - 132.3

Method Blank (1) QC Batch: 33069

QC Batch: 33069 Date Analyzed: 2006-12-21 Analyzed By: DR
Prep Batch: 28744 QC Preparation: 2006-12-21 Prepared By: DR

Parameter	Flag	MDL Result	Units	RL
Specific Conductance		0.00	µMHOS/cm	

Method Blank (1) QC Batch: 33089

QC Batch: 33089 Date Analyzed: 2006-12-22 Analyzed By: MT
Prep Batch: 28763 QC Preparation: 2006-12-22 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
GRO		<0.0272	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	77.2 - 124
4-Bromofluorobenzene (4-BFB)		0.0953	mg/L	1	0.100	95	58 - 111

Method Blank (1) QC Batch: 33102

QC Batch: 33102 Date Analyzed: 2006-12-21 Analyzed By: WB
Prep Batch: 28774 QC Preparation: 2006-12-21 Prepared By: WB

Parameter	Flag	MDL Result	Units	RL
Bromide		<0.0429	mg/L	0.2
Fluoride		<0.0119	mg/L	0.2
Nitrite-N		<0.0128	mg/L	0.2
Nitrate-N		<0.0106	mg/L	0.2

Method Blank (1) QC Batch: 33103

QC Batch: 33103 Date Analyzed: 2006-12-22 Analyzed By: WB
Prep Batch: 28775 QC Preparation: 2006-12-21 Prepared By: WB

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.0181	mg/L	0.5

Method Blank (1) QC Batch: 33110

QC Batch: 33110 Date Analyzed: 2006-12-23 Analyzed By: DS
Prep Batch: 28782 QC Preparation: 2006-12-22 Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
Pyridine		<0.000235	mg/L	0.005
n-Nitrosodimethylamine		<0.00143	mg/L	0.005
2-Picoline		<0.000437	mg/L	0.005
Methyl methanesulfonate		<0.000662	mg/L	0.005
Ethyl methanesulfonate		<0.000990	mg/L	0.005
Phenol		<0.000591	mg/L	0.005
Aniline		<0.000774	mg/L	0.005
bis(2-chloroethyl)ether		<0.00116	mg/L	0.005
2-Chlorophenol		<0.00279	mg/L	0.005
1,3-Dichlorobenzene (meta)		<0.000784	mg/L	0.005
1,4-Dichlorobenzene (para)		<0.000820	mg/L	0.005
Benzyl alcohol		<0.000607	mg/L	0.005
1,2-Dichlorobenzene (ortho)		<0.000869	mg/L	0.005
2-Methylphenol		<0.000950	mg/L	0.005
bis(2-chloroisopropyl)ether		<0.00151	mg/L	0.005
4-Methylphenol / 3-Methylphenol		<0.000782	mg/L	0.005
n-Nitrosodi-n-propylamine		<0.00117	mg/L	0.005
Hexachloroethane		<0.000738	mg/L	0.005
Acetophenone		<0.00131	mg/L	0.005
Nitrobenzene		<0.00121	mg/L	0.005
n-Nitrosopiperidine		<0.00150	mg/L	0.005
Isophorone		<0.00114	mg/L	0.005
2-Nitrophenol		<0.00430	mg/L	0.005
2,4-Dimethylphenol		<0.00110	mg/L	0.005
bis(2-chloroethoxy)methane		<0.00126	mg/L	0.005
2,4-Dichlorophenol		<0.00372	mg/L	0.005
1,2,4-Trichlorobenzene		<0.00108	mg/L	0.005
Benzoic acid		<0.000478	mg/L	0.005
Naphthalene		<0.00123	mg/L	0.005
a,a-Dimethylphenethylamine		<0.00316	mg/L	0.005
4-Chloroaniline		<0.000998	mg/L	0.005
2,6-Dichlorophenol		<0.00604	mg/L	0.01
Hexachlorobutadiene		<0.00104	mg/L	0.005
n-Nitroso-di-n-butylamine		<0.00159	mg/L	0.005
4-Chloro-3-methylphenol		<0.00102	mg/L	0.005
2-Methylnaphthalene		<0.00119	mg/L	0.005
1-Methylnaphthalene		<0.00118	mg/L	0.005
1,2,4,5-Tetrachlorobenzene		<0.00104	mg/L	0.005
Hexachlorocyclopentadiene		<0.000808	mg/L	0.005
2,4,6-Trichlorophenol		<0.00538	mg/L	0.01
2,4,5-Trichlorophenol		<0.00477	mg/L	0.005
2-Chloronaphthalene		<0.00110	mg/L	0.005
1-Chloronaphthalene		<0.00110	mg/L	0.005
2-Nitroaniline		<0.00103	mg/L	0.005
Dimethylphthalate		<0.000832	mg/L	0.005
Acenaphthylene		<0.00104	mg/L	0.005
2,6-Dinitrotoluene		<0.00103	mg/L	0.005
3-Nitroaniline		<0.000706	mg/L	0.005
Acenaphthene		<0.000990	mg/L	0.005
2,4-Dinitrophenol		<0.00261	mg/L	0.005
Dibenzofuran		<0.000945	mg/L	0.005

continued . . .

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
Pentachlorobenzene		<0.000907	mg/L	0.005
4-Nitrophenol		<0.00914	mg/L	0.025
2,4-Dinitrotoluene		<0.000729	mg/L	0.005
1-Naphthylamine		<0.000928	mg/L	0.005
2,3,4,6-Tetrachlorophenol		<0.00510	mg/L	0.01
2-Naphthylamine		<0.00100	mg/L	0.005
Fluorene		<0.000919	mg/L	0.005
4-Chlorophenyl-phenylether		<0.000952	mg/L	0.005
Diethylphthalate		<0.000816	mg/L	0.005
4-Nitroaniline		<0.000622	mg/L	0.005
Diphenylhydrazine		<0.000786	mg/L	0.005
4,6-Dinitro-2-methylphenol		<0.00311	mg/L	0.005
Diphenylamine		<0.000860	mg/L	0.005
4-Bromophenyl-phenylether		<0.000871	mg/L	0.005
Phenacetin		<0.000550	mg/L	0.005
Hexachlorobenzene		<0.000920	mg/L	0.005
4-Aminobiphenyl		<0.000934	mg/L	0.005
Pentachlorophenol		<0.00539	mg/L	0.01
Anthracene		<0.000826	mg/L	0.005
Pentachloronitrobenzene		<0.000934	mg/L	0.005
Pronamide		<0.000716	mg/L	0.005
Phenanthrene		<0.000830	mg/L	0.005
Di-n-butylphthalate		<0.000811	mg/L	0.005
Fluoranthene		<0.000778	mg/L	0.005
Benzidine		<0.0167	mg/L	0.025
Pyrene		<0.00101	mg/L	0.005
p-Dimethylaminoazobenzene		<0.000974	mg/L	0.005
Butylbenzylphthalate		<0.000900	mg/L	0.005
Benzo(a)anthracene		<0.000632	mg/L	0.005
3,3-Dichlorobenzidine		<0.000938	mg/L	0.005
Chrysene		<0.000937	mg/L	0.005
bis(2-ethylhexyl)phthalate		0.0126	mg/L	0.005
Di-n-octylphthalate		<0.000689	mg/L	0.005
Benzo(b)fluoranthene		<0.000492	mg/L	0.005
Benzo(k)fluoranthene		<0.000887	mg/L	0.005
7,12-Dimethylbenz(a)anthracene		<0.000687	mg/L	0.005
Benzo(a)pyrene		<0.000712	mg/L	0.005
3-Methylcholanthrene		<0.000641	mg/L	0.005
Dibenzo(a,j)acridine		<0.000620	mg/L	0.005
Indeno(1,2,3-cd)pyrene		<0.000655	mg/L	0.005
Dibenzo(a,h)anthracene		<0.000684	mg/L	0.005
Benzo(g,h,i)perylene		<0.000324	mg/L	0.005
2-Butoxy Ethanol		<0.00150	mg/L	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.0251	mg/L	1	0.0800	31	15.6 - 49.6
Phenol-d5		0.0165	mg/L	1	0.0800	21	10.2 - 33.6
Nitrobenzene-d5		0.0642	mg/L	1	0.0800	80	46.7 - 112
2-Fluorobiphenyl		0.0612	mg/L	1	0.0800	76	44.4 - 108

continued . . .

method blank continued . . .

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,6-Tribromophenol		0.0522	mg/L	1	0.0800	65	24.9 - 147
Terphenyl-d14		0.0687	mg/L	1	0.0800	86	25.6 - 143

Method Blank (1) QC Batch: 33149

QC Batch: 33149 Date Analyzed: 2006-12-27 Analyzed By: RR
Prep Batch: 28730 QC Preparation: 2006-12-22 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Dissolved Silver		<0.000199	mg/L	0.002
Dissolved Cadmium		<0.000577	mg/L	0.001
Dissolved Chromium		<0.00357	mg/L	0.005
Dissolved Copper		<0.00127	mg/L	0.0125
Dissolved Lead		<0.00398	mg/L	0.005
Dissolved Zinc		<0.00300	mg/L	0.005

Method Blank (1) QC Batch: 33182

QC Batch: 33182 Date Analyzed: 2006-12-27 Analyzed By: WB
Prep Batch: 28842 QC Preparation: 2006-12-27 Prepared By: WB

Parameter	Flag	MDL Result	Units	RL
Sulfate		<0.0485	mg/L	0.5

Method Blank (1) QC Batch: 33219

QC Batch: 33219 Date Analyzed: 2006-12-29 Analyzed By: RR
Prep Batch: 28854 QC Preparation: 2006-12-28 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Total Silver		<0.000274	mg/L	0.002
Total Cadmium		<0.000268	mg/L	0.001
Total Chromium		<0.00357	mg/L	0.005
Total Copper		<0.00127	mg/L	0.005
Total Phosphorous		<0.0229	mg/L	0.05
Total Lead		<0.00310	mg/L	0.005
Total Zinc		<0.000666	mg/L	0.005

Method Blank (1) QC Batch: 33250

QC Batch: 33250 Date Analyzed: 2006-12-29 Analyzed By: JG
Prep Batch: 28901 QC Preparation: 2006-12-29 Prepared By: JG

Parameter	Flag	MDL Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.00	mg/L as CaCo3	4
Total Alkalinity		<2.38	mg/L as CaCo3	4

Method Blank (1) QC Batch: 33264

QC Batch: 33264 Date Analyzed: 2006-12-26 Analyzed By: JG
Prep Batch: 28911 QC Preparation: 2006-12-26 Prepared By: JG

Parameter	Flag	MDL Result	Units	RL
Total Dissolved Solids		<5.00	mg/L	5

Method Blank (1) QC Batch: 33281

QC Batch: 33281 Date Analyzed: 2006-12-29 Analyzed By: JG
Prep Batch: 28923 QC Preparation: 2006-12-29 Prepared By: JG

Parameter	Flag	MDL Result	Units	RL
Bromochloromethane		<0.0699	µg/L	1
Dichlorodifluoromethane		<0.0598	µg/L	1
Chloromethane (methyl chloride)		<0.230	µg/L	1
Vinyl Chloride		<0.0902	µg/L	1
Bromomethane (methyl bromide)		<0.740	µg/L	5
Chloroethane		<0.195	µg/L	1
Trichlorofluoromethane		<0.160	µg/L	1
Acetone		<0.854	µg/L	10
Iodomethane (methyl iodide)		<0.112	µg/L	5
Carbon Disulfide		<0.0764	µg/L	1
Acrylonitrile		<0.184	µg/L	1
2-Butanone (MEK)		<0.394	µg/L	5
4-Methyl-2-pentanone (MIBK)		<0.484	µg/L	5
2-Hexanone		<0.0975	µg/L	5
trans 1,4-Dichloro-2-butene		<0.420	µg/L	10
1,1-Dichloroethene		<0.0736	µg/L	1
Methylene chloride		0.830	µg/L	5
MTBE		<0.0504	µg/L	1
trans-1,2-Dichloroethene		<0.0598	µg/L	1
1,1-Dichloroethane		<0.0299	µg/L	1
cis-1,2-Dichloroethene		<0.101	µg/L	1
2,2-Dichloropropane		<0.0665	µg/L	1
1,2-Dichloroethane (EDC)		<0.0557	µg/L	1
Chloroform		<0.0475	µg/L	1
1,1,1-Trichloroethane		<0.0846	µg/L	1
1,1-Dichloropropene		<0.0423	µg/L	1
Benzene		<0.0495	µg/L	1
Carbon Tetrachloride		<0.121	µg/L	1

continued . . .

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
1,2-Dichloropropane		<0.0933	µg/L	1
Trichloroethene (TCE)		<0.0495	µg/L	1
Dibromomethane (methylene bromide)		<0.0640	µg/L	1
Bromodichloromethane		<0.0651	µg/L	1
2-Chloroethyl vinyl ether		<0.0905	µg/L	5
cis-1,3-Dichloropropene		<0.0640	µg/L	1
trans-1,3-Dichloropropene		<0.0504	µg/L	1
Toluene		0.270	µg/L	1
1,1,2-Trichloroethane		<0.106	µg/L	1
1,3-Dichloropropane		<0.0625	µg/L	1
Dibromochloromethane		<0.0791	µg/L	1
1,2-Dibromoethane (EDB)		<0.0460	µg/L	1
Tetrachloroethene (PCE)		<0.0696	µg/L	1
Chlorobenzene		<0.0217	µg/L	1
1,1,1,2-Tetrachloroethane		<0.125	µg/L	1
Ethylbenzene		<0.0566	µg/L	1
m,p-Xylene		<0.0363	µg/L	1
Bromoform		<0.0859	µg/L	1
Styrene		<0.0394	µg/L	1
o-Xylene		<0.0505	µg/L	1
1,1,2,2-Tetrachloroethane		<0.0672	µg/L	1
2-Chlorotoluene		<0.0283	µg/L	1
1,2,3-Trichloropropane		<0.0679	µg/L	1
Isopropylbenzene		<0.0406	µg/L	1
Bromobenzene		<0.103	µg/L	1
n-Propylbenzene		<0.0423	µg/L	1
1,3,5-Trimethylbenzene		<0.0557	µg/L	1
tert-Butylbenzene		<0.0770	µg/L	1
1,2,4-Trimethylbenzene		<0.0336	µg/L	1
1,4-Dichlorobenzene (para)		<0.0672	µg/L	1
sec-Butylbenzene		<0.0439	µg/L	1
1,3-Dichlorobenzene (meta)		<0.0672	µg/L	1
p-Isopropyltoluene		<0.0513	µg/L	1
4-Chlorotoluene		<0.0460	µg/L	1
1,2-Dichlorobenzene (ortho)		<0.0629	µg/L	1
n-Butylbenzene		<0.0400	µg/L	1
1,2-Dibromo-3-chloropropane		<0.538	µg/L	5
1,2,3-Trichlorobenzene		<0.504	µg/L	5
1,2,4-Trichlorobenzene		<0.166	µg/L	5
Naphthalene		1.10	µg/L	5
Hexachlorobutadiene		1.67	µg/L	5
Isopropyl Alcohol		<5.00	µg/L	5
Tert-butyl Alcohol		<5.00	µg/L	5
1,4-Dioxane		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53.3	µg/L	1	50.0	107	82.4 - 115
Toluene-d8		51.8	µg/L	1	50.0	104	89.7 - 108
4-Bromofluorobenzene (4-BFB)		53.2	µg/L	1	50.0	106	84.6 - 114

Method Blank (1) QC Batch: 33296

QC Batch:	33296	Date Analyzed:	2007-01-02	Analyzed By:	TP
Prep Batch:	28730	QC Preparation:	2006-12-22	Prepared By:	TS

Parameter	Flag	MDL Result	Units	RL
Dissolved Sodium		0.256	mg/L	0.5

Method Blank (1) QC Batch: 33316

QC Batch:	33316	Date Analyzed:	2007-01-02	Analyzed By:	TP
Prep Batch:	28854	QC Preparation:	2006-12-28	Prepared By:	TS

Parameter	Flag	MDL Result	Units	RL
Total Sodium		0.637	mg/L	0.5

Method Blank (1) QC Batch: 33349

QC Batch:	33349	Date Analyzed:	2007-01-03	Analyzed By:	SM
Prep Batch:	28981	QC Preparation:	2007-01-03	Prepared By:	SM

Parameter	Flag	MDL Result	Units	RL
Ammonia-N		<0.820	mg/L	1

Duplicates (1)

QC Batch:	33064	Date Analyzed:	2006-12-21	Analyzed By:	DR
Prep Batch:	28740	QC Preparation:	2006-12-21	Prepared By:	DR

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH	7.42	7.41	s.u.	1	0	20

Duplicates (1)

QC Batch:	33069	Date Analyzed:	2006-12-21	Analyzed By:	DR
Prep Batch:	28744	QC Preparation:	2006-12-21	Prepared By:	DR

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Specific Conductance	12800	12700	µMHOS/cm	1	1	6.7

Duplicates (1)

QC Batch: 33250 Date Analyzed: 2006-12-29 Analyzed By: JG
Prep Batch: 28901 QC Preparation: 2006-12-29 Prepared By: JG

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	6.3
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	6.3
Bicarbonate Alkalinity	156	154	mg/L as CaCo3	1	1	6.3
Total Alkalinity	156	154	mg/L as CaCo3	1	1	6.3

Duplicates (1)

QC Batch: 33264 Date Analyzed: 2006-12-26 Analyzed By: JG
Prep Batch: 28911 QC Preparation: 2006-12-26 Prepared By: JG

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	12400	12200	mg/L	1	2	20

Laboratory Control Spike (LCS-1)

QC Batch: 33057 Date Analyzed: 2006-12-22 Analyzed By: SP
Prep Batch: 28733 QC Preparation: 2006-12-22 Prepared By: SP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	27.4	mg/L	1	25.0	<1.19	110	73.2 - 123

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	25.8	mg/L	1	25.0	<1.19	103	73.2 - 123	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	14.7	14.2	mg/L	1	15.0	98	95	57 - 132.3

Laboratory Control Spike (LCS-1)

QC Batch: 33089 Date Analyzed: 2006-12-22 Analyzed By: MT
Prep Batch: 28763 QC Preparation: 2006-12-22 Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	0.993	mg/L	1	1.00	<0.0272	99	71.4 - 123

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	0.947	mg/L	1	1.00	<0.0272	95	71.4 - 123	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0990	0.0954	mg/L	1	0.100	99	95	73.8 - 122
4-Bromofluorobenzene (4-BFB)	0.102	0.0977	mg/L	1	0.100	102	98	82.6 - 112

Laboratory Control Spike (LCS-1)

QC Batch: 33102 Date Analyzed: 2006-12-21 Analyzed By: WB
Prep Batch: 28774 QC Preparation: 2006-12-21 Prepared By: WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromide	2.57	mg/L	1	2.50	<0.0429	103	90 - 110
Fluoride	2.42	mg/L	1	2.50	<0.0119	97	90 - 110
Nitrite-N	2.42	mg/L	1	2.50	<0.0128	97	90 - 110
Nitrate-N	2.37	mg/L	1	2.50	<0.0106	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Bromide	2.60	mg/L	1	2.50	<0.0429	104	90 - 110	1	20
Fluoride	2.44	mg/L	1	2.50	<0.0119	98	90 - 110	1	20
Nitrite-N	2.42	mg/L	1	2.50	<0.0128	97	90 - 110	0	20
Nitrate-N	2.38	mg/L	1	2.50	<0.0106	95	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 33103 Date Analyzed: 2006-12-22 Analyzed By: WB
Prep Batch: 28775 QC Preparation: 2006-12-21 Prepared By: WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11.7	mg/L	1	12.5	<0.0181	94	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11.4	mg/L	1	12.5	<0.0181	91	90 - 110	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 33110 Date Analyzed: 2006-12-23 Analyzed By: DS
Prep Batch: 28782 QC Preparation: 2006-12-22 Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Phenol	0.0164	mg/L	1	0.0800	<0.000590	20	10 - 51.1
2-Chlorophenol	0.0485	mg/L	1	0.0800	<0.00279	61	10 - 116
1,4-Dichlorobenzene (para)	0.0436	mg/L	1	0.0800	<0.000817	54	10.7 - 109
n-Nitrosodi-n-propylamine	0.0711	mg/L	1	0.0800	<0.00117	89	16.9 - 125
1,2,4-Trichlorobenzene	0.0603	mg/L	1	0.0800	<0.00108	75	13.9 - 134
4-Chloro-3-methylphenol	0.0490	mg/L	1	0.0800	<0.00102	61	13.3 - 141
Acenaphthene	0.0657	mg/L	1	0.0800	<0.000990	82	34 - 120
4-Nitrophenol	0.0151	mg/L	1	0.0800	<0.00914	19	12.8 - 106
2,4-Dinitrotoluene	0.0890	mg/L	1	0.0800	<0.000729	111	40.5 - 142
Pentachlorophenol	0.0535	mg/L	1	0.0800	<0.00539	67	10 - 152
Pyrene	0.0739	mg/L	1	0.0800	<0.00101	92	47.2 - 151

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Phenol	0.0162	mg/L	1	0.0800	<0.000590	20	10 - 51.1	1	20
2-Chlorophenol	0.0478	mg/L	1	0.0800	<0.00279	60	10 - 116	1	20
1,4-Dichlorobenzene (para)	0.0444	mg/L	1	0.0800	<0.000817	56	10.7 - 109	2	20
n-Nitrosodi-n-propylamine	0.0687	mg/L	1	0.0800	<0.00117	86	16.9 - 125	3	20
1,2,4-Trichlorobenzene	0.0611	mg/L	1	0.0800	<0.00108	76	13.9 - 134	1	20
4-Chloro-3-methylphenol	0.0509	mg/L	1	0.0800	<0.00102	64	13.3 - 141	4	20
Acenaphthene	0.0660	mg/L	1	0.0800	<0.000990	82	34 - 120	0	20
4-Nitrophenol	0.0151	mg/L	1	0.0800	<0.00914	19	12.8 - 106	0	20
2,4-Dinitrotoluene	0.0897	mg/L	1	0.0800	<0.000729	112	40.5 - 142	1	20
Pentachlorophenol	0.0558	mg/L	1	0.0800	<0.00539	70	10 - 152	4	20
Pyrene	0.0740	mg/L	1	0.0800	<0.00101	92	47.2 - 151	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
2-Fluorophenol	0.0261	0.0261	mg/L	1	0.0800	33	33	10 - 77.8
Phenol-d5	0.0168	0.0170	mg/L	1	0.0800	21	21	10 - 47
Nitrobenzene-d5	0.0767	0.0772	mg/L	1	0.0800	96	96	10 - 170
2-Fluorobiphenyl	0.0678	0.0673	mg/L	1	0.0800	85	84	10 - 200
2,4,6-Tribromophenol [1,2]	0.0848	0.0844	mg/L	1	0.0800	106	106	29 - 99.9
Terphenyl-d14	0.0799	0.0801	mg/L	1	0.0800	100	100	10 - 179

Laboratory Control Spike (LCS-1)

QC Batch: 33149
Prep Batch: 28730
Date Analyzed: 2006-12-27
QC Preparation: 2006-12-22
Analyzed By: RR
Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Silver	0.118	mg/L	1	0.125	<0.000199	94	86.2 - 116
Dissolved Cadmium	0.224	mg/L	1	0.250	<0.000577	90	83.3 - 113
Dissolved Chromium	0.101	mg/L	1	0.100	<0.00357	101	83 - 112

continued . . .

[1] 8270 Only - One acidic surrogate is out of control limits. The other two acidic surrogates show extraction was performed properly.
[2] 8270 Only - One acidic surrogate is out of control limits. The other two acidic surrogates show extraction was performed properly.

control spikes continued . . .

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Copper	0.121	mg/L	1	0.125	<0.00127	97	84.3 - 114
Dissolved Lead	0.501	mg/L	1	0.500	<0.00398	100	81.1 - 111
Dissolved Zinc	0.215	mg/L	1	0.250	<0.00300	86	84.7 - 113

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Silver	0.118	mg/L	1	0.125	<0.000199	94	86.2 - 116	0	20
Dissolved Cadmium	0.224	mg/L	1	0.250	<0.000577	90	83.3 - 113	0	20
Dissolved Chromium	0.0970	mg/L	1	0.100	<0.00357	97	83 - 112	4	20
Dissolved Copper	0.119	mg/L	1	0.125	<0.00127	95	84.3 - 114	2	20
Dissolved Lead	0.492	mg/L	1	0.500	<0.00398	98	81.1 - 111	2	20
Dissolved Zinc	0.229	mg/L	1	0.250	<0.00300	92	84.7 - 113	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 33182 Date Analyzed: 2006-12-27 Analyzed By: WB
Prep Batch: 28842 QC Preparation: 2006-12-27 Prepared By: WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	12.3	mg/L	1	12.5	<0.0485	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	12.2	mg/L	1	12.5	<0.0485	98	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 33219 Date Analyzed: 2006-12-29 Analyzed By: RR
Prep Batch: 28854 QC Preparation: 2006-12-28 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	0.126	mg/L	1	0.125	<0.000274	101	87.9 - 111
Total Cadmium	0.256	mg/L	1	0.250	<0.000268	102	86.8 - 110
Total Chromium	0.109	mg/L	1	0.100	<0.00357	109	86.5 - 115
Total Copper	0.131	mg/L	1	0.125	<0.00127	105	83.4 - 117
Total Phosphorous	0.521	mg/L	1	0.500	<0.0229	104	87.3 - 114
Total Lead	0.523	mg/L	1	0.500	<0.00310	105	83 - 109
Total Zinc	0.247	mg/L	1	0.250	<0.000666	99	82.9 - 109

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Silver	0.122	mg/L	1	0.125	<0.000274	98	87.9 - 111	3	20
Total Cadmium	0.251	mg/L	1	0.250	<0.000268	100	86.8 - 110	2	20
Total Chromium	0.107	mg/L	1	0.100	<0.00357	107	86.5 - 115	2	20
Total Copper	0.133	mg/L	1	0.125	<0.00127	106	83.4 - 117	2	20
Total Phosphorous	0.532	mg/L	1	0.500	<0.0229	106	87.3 - 114	2	20
Total Lead	0.515	mg/L	1	0.500	<0.00310	103	83 - 109	2	20
Total Zinc	0.262	mg/L	1	0.250	<0.000666	105	82.9 - 109	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 33281
Prep Batch: 28923
Date Analyzed: 2006-12-29
QC Preparation: 2006-12-29
Analyzed By: JG
Prepared By: JG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethene	55.6	µg/L	1	50.0	<0.0736	111	83.4 - 114
Benzene	56.3	µg/L	1	50.0	<0.0495	113	83.5 - 115
Trichloroethene (TCE) [3]	56.4	µg/L	1	50.0	<0.0495	113	91.3 - 111
Toluene	51.0	µg/L	1	50.0	<0.0736	102	82 - 110
Chlorobenzene	53.1	µg/L	1	50.0	<0.0217	106	87.9 - 109

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,1-Dichloroethene	55.1	µg/L	1	50.0	<0.0736	110	83.4 - 114	1	20
Benzene	56.5	µg/L	1	50.0	<0.0495	113	83.5 - 115	0	20
Trichloroethene (TCE) [4]	56.6	µg/L	1	50.0	<0.0495	113	91.3 - 111	0	20
Toluene	50.8	µg/L	1	50.0	<0.0736	102	82 - 110	0	20
Chlorobenzene	52.6	µg/L	1	50.0	<0.0217	105	87.9 - 109	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	51.9	52.2	µg/L	1	50.0	104	104	82.4 - 115
Toluene-d8	49.7	49.9	µg/L	1	50.0	99	100	89.7 - 108
4-Bromofluorobenzene (4-BFB)	48.0	48.3	µg/L	1	50.0	96	97	84.6 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 33296
Prep Batch: 28730
Date Analyzed: 2007-01-02
QC Preparation: 2006-12-22
Analyzed By: TP
Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Sodium	51.9	mg/L	1	50.0	<0.0309	104	85 - 115

[3] Spike recovery out of control limits. Concentration biased high. •
[4] Spike recovery out of control limits. Concentration biased high. •

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Sodium	52.5	mg/L	1	50.0	<0.0309	105	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 33316 Date Analyzed: 2007-01-02 Analyzed By: TP
Prep Batch: 28854 QC Preparation: 2006-12-28 Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Sodium	51.2	mg/L	1	50.0	<0.0309	102	87.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Sodium	52.3	mg/L	1	50.0	<0.0309	105	87.1 - 120	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 33349 Date Analyzed: 2007-01-03 Analyzed By: SM
Prep Batch: 28981 QC Preparation: 2007-01-03 Prepared By: SM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Ammonia-N	5.21	mg/L	1	5.00	<0.820	104	66 - 122

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ammonia-N	5.04	mg/L	1	5.00	<0.820	101	66 - 122	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 112408

QC Batch: 33057 Date Analyzed: 2006-12-22 Analyzed By: SP
Prep Batch: 28733 QC Preparation: 2006-12-22 Prepared By: SP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	22.6	mg/L	1	25.0	<1.19	90	77.8 - 112

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued . . .

matrix spikes continued . . .

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	23.4	mg/L	1	25.0	<1.19	94	77.8 - 112	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	14.0	14.4	mg/L	1	15	93	96	57 - 132.3

Matrix Spike (MS-1) Spiked Sample: 112182

QC Batch: 33089 Date Analyzed: 2006-12-22 Analyzed By: MT
Prep Batch: 28763 QC Preparation: 2006-12-22 Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	0.853	mg/L	1	1.00	<0.0272	85	53.7 - 136

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	0.866	mg/L	1	1.00	<0.0272	87	53.7 - 136	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0858	0.0876	mg/L	1	0.1	86	88	58.8 - 134
4-Bromofluorobenzene (4-BFB)	0.0974	0.0981	mg/L	1	0.1	97	98	68.5 - 128

Matrix Spike (MS-1) Spiked Sample: 112535

QC Batch: 33102 Date Analyzed: 2006-12-21 Analyzed By: WB
Prep Batch: 28774 QC Preparation: 2006-12-21 Prepared By: WB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromide	13.7	mg/L	5	12.5	<0.214	110	95.4 - 114
Fluoride	12.7	mg/L	5	12.5	1.16	92	73.4 - 119
Nitrite-N	12.6	mg/L	5	12.5	<0.0640	101	58.3 - 151
Nitrate-N	13.1	mg/L	5	12.5	<0.0530	105	85.7 - 123

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Bromide	13.0	mg/L	5	12.5	<0.214	104	95.4 - 114	5	20
Fluoride	12.4	mg/L	5	12.5	1.16	90	73.4 - 119	2	20

continued . . .

matrix spikes continued . . .

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrite-N	12.5	mg/L	5	12.5	<0.0640	100	58.3 - 151	1	20
Nitrate-N	12.9	mg/L	5	12.5	<0.0530	103	85.7 - 123	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 112537

QC Batch: 33103 Date Analyzed: 2006-12-22 Analyzed By: WB
Prep Batch: 28775 QC Preparation: 2006-12-21 Prepared By: WB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	7220	mg/L	500	6250	1160	97	10 - 6384

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	7160	mg/L	500	6250	1160	96	10 - 6384	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 112445

QC Batch: 33149 Date Analyzed: 2006-12-27 Analyzed By: RR
Prep Batch: 28730 QC Preparation: 2006-12-22 Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Silver	0.114	mg/L	1	0.125	<0.000199	91	90.1 - 120
Dissolved Cadmium	0.212	mg/L	1	0.250	<0.000577	85	75 - 112
Dissolved Chromium	0.0840	mg/L	1	0.100	<0.00357	84	75 - 121
Dissolved Copper	0.116	mg/L	1	0.125	<0.00127	93	81.5 - 125
Dissolved Lead	0.464	mg/L	1	0.500	<0.00398	93	75 - 111
Dissolved Zinc	0.218	mg/L	1	0.250	<0.00300	87	80.4 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Silver	0.120	mg/L	1	0.125	<0.000199	96	90.1 - 120	5	20
Dissolved Cadmium	0.211	mg/L	1	0.250	<0.000577	84	75 - 112	0	20
Dissolved Chromium	0.0920	mg/L	1	0.100	<0.00357	92	75 - 121	9	20
Dissolved Copper	0.116	mg/L	1	0.125	<0.00127	93	81.5 - 125	0	20
Dissolved Lead	0.495	mg/L	1	0.500	<0.00398	99	75 - 111	6	20
Dissolved Zinc	0.221	mg/L	1	0.250	<0.00300	88	80.4 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 112625

QC Batch: 33182
Prep Batch: 28842
Date Analyzed: 2006-12-27
QC Preparation: 2006-12-27
Analyzed By: WB
Prepared By: WB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	925	mg/L	50	625	357	91	86.2 - 117

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate [5]	857	mg/L	50	625	357	80	86.2 - 117	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 112408

QC Batch: 33219
Prep Batch: 28854
Date Analyzed: 2006-12-29
QC Preparation: 2006-12-28
Analyzed By: RR
Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	0.116	mg/L	1	0.125	<0.000274	93	88.2 - 114
Total Cadmium	0.235	mg/L	1	0.250	0.003	93	66.5 - 121
Total Chromium	0.196	mg/L	1	0.100	0.121	75	69.2 - 129
Total Copper	0.123	mg/L	1	0.125	<0.00127	98	83.8 - 118
Total Phosphorous	0.462	mg/L	1	0.500	0.069	79	70.1 - 115
Total Lead	0.480	mg/L	1	0.500	<0.00310	96	71.9 - 115
Total Zinc	0.239	mg/L	1	0.250	<0.000666	96	75.5 - 113

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Silver	0.115	mg/L	1	0.125	<0.000274	92	88.2 - 114	1	20
Total Cadmium	0.232	mg/L	1	0.250	0.003	92	66.5 - 121	1	20
Total Chromium	0.210	mg/L	1	0.100	0.121	89	69.2 - 129	7	20
Total Copper	0.123	mg/L	1	0.125	<0.00127	98	83.8 - 118	0	20
Total Phosphorous	0.467	mg/L	1	0.500	0.069	80	70.1 - 115	1	20
Total Lead	0.470	mg/L	1	0.500	<0.00310	94	71.9 - 115	2	20
Total Zinc	0.239	mg/L	1	0.250	<0.000666	96	75.5 - 113	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 112452

QC Batch: 33281
Prep Batch: 28923
Date Analyzed: 2006-12-29
QC Preparation: 2006-12-29
Analyzed By: JG
Prepared By: JG

[5] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethene	43.3	µg/L	1	50.0	<0.0736	87	78.7 - 119
Benzene	56.6	µg/L	1	50.0	<0.0495	113	75.8 - 125
Trichloroethene (TCE)	55.1	µg/L	1	50.0	<0.0495	110	83.6 - 112
Toluene	50.4	µg/L	1	50.0	<0.0736	101	81.6 - 115
Chlorobenzene	52.0	µg/L	1	50.0	<0.0217	104	83.9 - 113

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,1-Dichloroethene	[6]	n/a	µg/L	1	50.0	<0.0736	0	78.7 - 119	200	20
Benzene	[7]	n/a	µg/L	1	50.0	<0.0495	0	75.8 - 125	200	20
Trichloroethene (TCE)	[8]	n/a	µg/L	1	50.0	<0.0495	0	83.6 - 112	200	20
Toluene	[9]	n/a	µg/L	1	50.0	<0.0736	0	81.6 - 115	200	20
Chlorobenzene	[10]	n/a	µg/L	1	50.0	<0.0217	0	83.9 - 113	200	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Dibromofluoromethane	[11]	53.3	n/a	µg/L	1	50	107	0	86.6 - 114
Toluene-d8	[12]	49.5	n/a	µg/L	1	50	99	0	91 - 109
4-Bromofluorobenzene (4-BFB)	[13]	48.5	n/a	µg/L	1	50	97	0	87.2 - 113

Matrix Spike (MS-1) Spiked Sample: 112445

QC Batch: 33296
Prep Batch: 28730
Date Analyzed: 2007-01-02
QC Preparation: 2006-12-22
Analyzed By: TP
Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Sodium	973	mg/L	1	50.0	919	108	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Sodium	971	mg/L	1	50.0	919	104	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 112408

QC Batch: 33316
Prep Batch: 28854
Date Analyzed: 2007-01-02
QC Preparation: 2006-12-28
Analyzed By: TP
Prepared By: TS

[6]RPD is out of range because a matrix spike duplicate was not prepared.
[7]RPD is out of range because a matrix spike duplicate was not prepared.
[8]RPD is out of range because a matrix spike duplicate was not prepared.
[9]RPD is out of range because a matrix spike duplicate was not prepared.
[10]RPD is out of range because a matrix spike duplicate was not prepared.
[11]RPD is out of range because a matrix spike duplicate was not prepared.
[12]RPD is out of range because a matrix spike duplicate was not prepared.
[13]RPD is out of range because a matrix spike duplicate was not prepared.

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Sodium	[14]	3760	mg/L	1	50.0	3640	240	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Sodium	3690	mg/L	1	50.0	3640	100	75 - 125	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 111156

QC Batch: 33349 Date Analyzed: 2007-01-03 Analyzed By: SM
Prep Batch: 28981 QC Preparation: 2007-01-03 Prepared By: SM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Ammonia-N	4.59	mg/L	1	5.00	<0.820	92	58 - 134

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ammonia-N	4.82	mg/L	1	5.00	<0.820	96	58 - 134	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 33057 Date Analyzed: 2006-12-22 Analyzed By: SP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	270	108	85 - 115	2006-12-22

Standard (CCV-1)

QC Batch: 33057 Date Analyzed: 2006-12-22 Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	283	113	85 - 115	2006-12-22

Standard (ICV-1)

QC Batch: 33064 Date Analyzed: 2006-12-21 Analyzed By: DR

[14] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7.00	6.96	99	98.8 - 101	2006-12-21

Standard (CCV-1)

QC Batch: 33064 Date Analyzed: 2006-12-21 Analyzed By: DR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7.00	7.00	100	98.8 - 101	2006-12-21

Standard (ICV-1)

QC Batch: 33069 Date Analyzed: 2006-12-21 Analyzed By: DR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		µMHOS/cm	1410	1410	100	96.7 - 108	2006-12-21

Standard (CCV-1)

QC Batch: 33069 Date Analyzed: 2006-12-21 Analyzed By: DR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		µMHOS/cm	1410	1420	100	96.7 - 108	2006-12-21

Standard (ICV-1)

QC Batch: 33089 Date Analyzed: 2006-12-22 Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.970	97	85 - 115	2006-12-22

Standard (CCV-1)

QC Batch: 33089 Date Analyzed: 2006-12-22 Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.892	89	85 - 115	2006-12-22

Standard (ICV-1)

QC Batch: 33102 Date Analyzed: 2006-12-21 Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	2.50	2.60	104	90 - 110	2006-12-21
Fluoride		mg/L	2.50	2.58	103	90 - 110	2006-12-21
Nitrite-N		mg/L	2.50	2.58	103	90 - 110	2006-12-21
Nitrate-N		mg/L	2.50	2.40	96	90 - 110	2006-12-21

Standard (CCV-1)

QC Batch: 33102 Date Analyzed: 2006-12-21 Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	2.50	2.61	104	90 - 110	2006-12-21
Fluoride		mg/L	2.50	2.44	98	90 - 110	2006-12-21
Nitrite-N		mg/L	2.50	2.38	95	90 - 110	2006-12-21
Nitrate-N		mg/L	2.50	2.38	95	90 - 110	2006-12-21

Standard (ICV-1)

QC Batch: 33103 Date Analyzed: 2006-12-22 Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.4	91	90 - 110	2006-12-22

Standard (CCV-1)

QC Batch: 33103 Date Analyzed: 2006-12-22 Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2006-12-22

Standard (CCV-1)

QC Batch: 33110 Date Analyzed: 2006-12-23 Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol		mg/L	60.0	57.4	96	80 - 120	2006-12-23
1,4-Dichlorobenzene (para)		mg/L	60.0	60.8	101	80 - 120	2006-12-23
2-Nitrophenol		mg/L	60.0	71.4	119	80 - 120	2006-12-23

continued...

standard continued . . .

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
2,4-Dichlorophenol		mg/L	60.0	54.2	90	80 - 120	2006-12-23
Hexachlorobutadiene		mg/L	60.0	71.3	119	80 - 120	2006-12-23
4-Chloro-3-methylphenol		mg/L	60.0	58.9	98	80 - 120	2006-12-23
2,4,6-Trichlorophenol		mg/L	60.0	63.9	106	80 - 120	2006-12-23
Acenaphthene		mg/L	60.0	60.8	101	80 - 120	2006-12-23
Diphenylamine		mg/L	60.0	61.0	102	80 - 120	2006-12-23
Pentachlorophenol		mg/L	60.0	69.6	116	80 - 120	2006-12-23
Fluoranthene		mg/L	60.0	60.8	101	80 - 120	2006-12-23
Di-n-octylphthalate		mg/L	60.0	65.0	108	80 - 120	2006-12-23
Benzo(a)pyrene		mg/L	60.0	65.3	109	80 - 120	2006-12-23

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		60.7	mg/L	1	60.0	101	80 - 120
Phenol-d5		57.6	mg/L	1	60.0	96	80 - 120
Nitrobenzene-d5	[15]	74.9	mg/L	1	60.0	125	80 - 120
2-Fluorobiphenyl		57.4	mg/L	1	60.0	96	80 - 120
2,4,6-Tribromophenol		68.0	mg/L	1	60.0	113	80 - 120
Terphenyl-d14		66.0	mg/L	1	60.0	110	80 - 120

Standard (ICV-1)

QC Batch: 33149 Date Analyzed: 2006-12-27 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Silver		mg/L	0.125	0.124	99	90 - 110	2006-12-27
Dissolved Cadmium		mg/L	1.00	0.953	95	95 - 105	2006-12-27
Dissolved Chromium		mg/L	1.00	0.956	96	90 - 110	2006-12-27
Dissolved Copper		mg/L	1.00	0.981	98	90 - 110	2006-12-27
Dissolved Lead		mg/L	1.00	1.01	101	90 - 110	2006-12-27
Dissolved Zinc		mg/L	1.00	1.01	101	90 - 110	2006-12-27

Standard (CCV-1)

QC Batch: 33149 Date Analyzed: 2006-12-27 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Silver		mg/L	0.125	0.128	102	90 - 110	2006-12-27
Dissolved Cadmium		mg/L	1.00	0.959	96	90 - 110	2006-12-27
Dissolved Chromium		mg/L	1.00	0.969	97	90 - 110	2006-12-27
Dissolved Copper		mg/L	1.00	1.00	100	90 - 110	2006-12-27
Dissolved Lead		mg/L	1.00	0.959	96	90 - 110	2006-12-27

continued . . .

[15]Nitrobenzene-d5 outside of control limits on CCV(ICV). CCV(ICV) component average is 106% which is within acceptable range. This is acceptable by Method 8000.

standard continued . . .

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Zinc		mg/L	1.00	1.03	103	90 - 110	2006-12-27

Standard (ICV-1)

QC Batch: 33182 Date Analyzed: 2006-12-27 Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	5.00	5.42	108	90 - 110	2006-12-27

Standard (CCV-1)

QC Batch: 33182 Date Analyzed: 2006-12-27 Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	12.5	12.3	98	90 - 110	2006-12-27

Standard (ICV-1)

QC Batch: 33219 Date Analyzed: 2006-12-29 Analyzed By: RR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.127	102	90 - 110	2006-12-29
Total Cadmium		mg/L	1.00	1.00	100	90 - 110	2006-12-29
Total Chromium		mg/L	1.00	1.00	100	90 - 110	2006-12-29
Total Copper		mg/L	1.00	1.01	101	90 - 110	2006-12-29
Total Phosphorous		mg/L	5.00	5.02	100	90 - 110	2006-12-29
Total Lead		mg/L	1.00	0.995	100	90 - 110	2006-12-29
Total Zinc		mg/L	1.00	1.06	106	90 - 110	2006-12-29

Standard (CCV-1)

QC Batch: 33219 Date Analyzed: 2006-12-29 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.122	98	90 - 110	2006-12-29
Total Cadmium		mg/L	1.00	0.952	95	90 - 110	2006-12-29
Total Chromium		mg/L	1.00	0.959	96	90 - 110	2006-12-29
Total Copper		mg/L	1.00	0.954	95	90 - 110	2006-12-29
Total Phosphorous		mg/L	5.00	4.74	95	90 - 110	2006-12-29

continued . . .

standard continued . . .

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Lead		mg/L	1.00	0.953	95	90 - 110	2006-12-29
Total Zinc		mg/L	1.00	1.02	102	90 - 110	2006-12-29

Standard (ICV-1)

QC Batch: 33250 Date Analyzed: 2006-12-29 Analyzed By: JG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 105	2006-12-29
Carbonate Alkalinity		mg/L as CaCo3	0.00	216		0 - 105	2006-12-29
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	28.0		0 - 105	2006-12-29
Total Alkalinity		mg/L as CaCo3	250	244	98	93.7 - 99.9	2006-12-29

Standard (CCV-1)

QC Batch: 33250 Date Analyzed: 2006-12-29 Analyzed By: JG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 105	2006-12-29
Carbonate Alkalinity		mg/L as CaCo3	0.00	216		0 - 105	2006-12-29
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	32.0		0 - 105	2006-12-29
Total Alkalinity		mg/L as CaCo3	250	248	99	93.7 - 99.9	2006-12-29

Standard (ICV-1)

QC Batch: 33264 Date Analyzed: 2006-12-26 Analyzed By: JG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	989	99	94.4 - 106	2006-12-26

Standard (CCV-1)

QC Batch: 33264 Date Analyzed: 2006-12-26 Analyzed By: JG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	986	99	94.4 - 106	2006-12-26

Standard (CCV-1)

QC Batch: 33281 Date Analyzed: 2006-12-29 Analyzed By: JG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50.0	50.9	102	80 - 120	2006-12-29
1,1-Dichloroethene		µg/L	50.0	52.3	105	80 - 120	2006-12-29
Chloroform		µg/L	50.0	53.8	108	80 - 120	2006-12-29
1,2-Dichloropropane		µg/L	50.0	53.8	108	80 - 120	2006-12-29
Toluene		µg/L	50.0	48.9	98	80 - 120	2006-12-29
Chlorobenzene		µg/L	50.0	51.0	102	80 - 120	2006-12-29
Ethylbenzene		µg/L	50.0	51.6	103	80 - 120	2006-12-29

Standard (ICV-1)

QC Batch: 33296 Date Analyzed: 2007-01-02 Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Sodium		mg/L	50.0	50.6	101	90 - 110	2007-01-02

Standard (CCV-1)

QC Batch: 33296 Date Analyzed: 2007-01-02 Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Sodium		mg/L	50.0	45.5	91	90 - 110	2007-01-02

Standard (ICV-1)

QC Batch: 33316 Date Analyzed: 2007-01-02 Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Sodium		mg/L	50.0	50.5	101	90 - 110	2007-01-02

Standard (CCV-1)

QC Batch: 33316 Date Analyzed: 2007-01-02 Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Sodium		mg/L	50.0	47.5	95	90 - 110	2007-01-02

Standard (ICV-1)

QC Batch: 33349 Date Analyzed: 2007-01-03 Analyzed By: SM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ammonia-N		mg/L	5.00	4.98	100	85 - 115	2007-01-03

Standard (CCV-1)

QC Batch: 33349 Date Analyzed: 2007-01-03 Analyzed By: SM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ammonia-N		mg/L	5.00	4.65	93	85 - 115	2007-01-03