MSD
Metropolitan Sewer District

Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

October 17, 2011

Mr. Femi Akindele
Remedial Project Manager
Kentucky/Tennessee Section
U.S. Environmental Protection Agency
REGION IV
61 Forsyth Street
ATLANTA, GA 30303

Re: Sampling Event # 37, Result of Groundwater Quality Monitoring - FY 12, First Quarter (FY12-1Q), Lees Lane Superfund Site, Jefferson County, Kentucky, Administrative Order on Consent, USEPA Docket No-91-32-C

Dear Mr. Akindele

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lee's Lane Landfill Site. Section 4.4. Groundwater Quality Monitoring, attached for your information files is one photocopy each of the following analyses and reports prepared by Heritage Laboratories, Inc., 7901 W. Morris Street, Indianapolis, Indiana 46231 for MSD.

The data package contains all of the analytical results and Quality Assurance reports for samples relating to the event.

Certificate of Analysis

WELL LOCATION	SAMPLE DESCRIPTION	LAB ID	REPORT LENGTH
MW-04	LL-MW-04-37	A929118	10 pages (duplex)
MW-04 Duplicate	LL-MW-04-37 DUP	A929119	10 pages (duplex)
MW-04 FB	LL-MW-04-37	A929120	10 pages (duplex)
MW-05	LL-MW-05-37	A929121	10 pages (duplex)

Beneficial Use of Louisville's Biosolids
www.louisvillegreen.com

10884722

Quality Assurance Reports

DESCRIPTION	REPORT LENGTH
Quality Assurance Report	173 pages (duplex)
Chain of Custody (COPY)	1 page

Please advise if you have any questions concerning the attached information.

Sincerely,

Richard H. Watkins, Sr.
Sewer Maintenance Supervisor
RHW/rw
Lees-12-1Qtr

Enc.

cc: Kentucky National Resource Environment Protection Cabinet
Mr. Daniel Phelps, Division of Waste Management
H. J. Schardein, Jr., Executive Director
Anthony Marconi, Preventive Maintenance & Support Manager
Lees Lane File

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929118 MW-04-37

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

Analyst: K. KAMARA Analysis Date: 22-SEP-11 09:00 Instrument: PREP Test: P130.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M101.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ALUMINUM	BDL	0.050	mg/L

ANTIMONY ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M102.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ANTIMONY	BDL	0.010	mg/L

BARIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M104.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BARIUM	0.15	0.010	mg/L

BERYLLIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M105.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M108.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M109.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	100	0.10	mg/L

ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	0.5	ug/L
PCB AROCLOR 1260	BDL	0.5	ug/L
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	82.7		% Rec

CYANIDE DISTILLATION SW846-9012B

Analyst: E. SOTKIEWICZ Analysis Date: 24-SEP-11 09:30 Instrument: PREP Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	6		mL
FINAL VOLUME	6		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012B NELAC:Y

Analyst: E. SOTKIEWICZ Analysis Date: 24-SEP-11 13:00 Instrument: AUTO-ANALYZER Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9012B P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

FIELD FILTRATION SAS

Analysis Date: Instrument: FIELD Test: P110.0.0

Parameter	Result	Det. Limit	Units

LEAD TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 25-SEP-11 01:21 Instrument: TRACE ICP Test: M116.0.1

Prep: FIELD FILTRATION SAS P110.0.0

HERITAGE
ENVIRONMENTAL SERVICES

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	21-SEP-11	A929118
	Completed	**PO Number**
	04-OCT-11	..
	Printed	**Sampled**
	04-OCT-11	21-SEP-11 09:39

Report To	Bill To
RICHARD H. WATKIN SR. LOUISVILLE AND JEFFERSON COUNTY MSD 3050 COMMERCE CENTER PLACE LOUISVILLE, KY 40211	RICK WATKINS LOUISVILLE & JEFFERSON COUNTY M.S.D. 3050 COMMERCE CENTER PLACE LOUISVILLE, KY 40211

Sample Description

CLIENT ID: MW-04-37
MATRIX TYPE: NON-SPECIFIC WATER
SUBMITTER: 4217 - LOUISVILLE AND JEFFERSON COUNTY MSD
DATA PACKAGE #: 62125
LOCATION: LEES LANE - ANNUAL EVENT
WELL NUMBER: GROUNDWATER

HEXAVALENT CHROMIUM SW846-7196A NELAC:Y

Analyst: E. SOTKIEWICZ Analysis Date: 22-SEP-11 08:00 Test: M110.6.0

Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	BDL	0.01	mg/L

GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: A. DUKES Analysis Date: 22-SEP-11 Instrument: PREP Test: P233.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081 NELAC:Y

Analyst: A. DUKES Analysis Date: 22-SEP-11 21:45 Instrument: GC/ECD Test: O305.1.0

Prep: GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L

HERITAGE
ENVIRONMENTAL SERVICES

Quality Assurance Report Package # 62125

LOUISVILLE AND JEFFERSON COUNTY MSD

Project : LOUISVILLE AND JEFFERSON COUNTY MSD

Sampled : 21-SEP-11

Sample Range : A929118, A929119, A929120, A929121

Kurt J Maines

Approved by: KURT MAINES - Project Manager

Heritage Environmental Services, LLC
Commercial Laboratory Operations
7901 West Morris Street
Indianapolis, Indiana 46231
Phone: (317) 243-8304
Fax : (317) 486-5095

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929118 MW-04-37

CHROMIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M110.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COBALT ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M111.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COBALT	BDL	0.010	mg/L

COPPER ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M112.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.010	mg/L

IRON ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M115.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
IRON	7.4	0.020	mg/L

MAGNESIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M118.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	37	0.10	mg/L

MANGANESE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M119.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.18	0.010	mg/L

NICKEL ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M122.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.0050	mg/L

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929118 MW-04-37

POTASSIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M126.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
POTASSIUM	2.5	0.10	mg/L

SILVER ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M130.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	0.010	mg/L

SODIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M131.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SODIUM	29	0.10	mg/L

VANADIUM ICP SW846-6010B NELAC:N

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M138.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: ICP Test: M139.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 25-SEP-11 03:24 Instrument: TRACE ICP Test: M103.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ARSENIC	0.012	0.0050	mg/L

LEAD TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:19 Instrument: TRACE ICP Test: M116.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929118 MW-04-37

SELENIUM TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 25-SEP-11 03:24 Instrument: TRACE ICP Test: M128.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 25-SEP-11 03:24 Instrument: TRACE ICP Test: M134.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A NELAC:Y

Analyst: W. WATNESS Analysis Date: 27-SEP-11 04:00 Instrument: PREP Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY CVAA SW846-7470A NELAC:Y

Analyst: W. WATNESS Analysis Date: 27-SEP-11 14:14 Instrument: CVAA Test: M120.1.0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: J. MINNIEAR, II Analysis Date: 23-SEP-11 Instrument: PREP Test: P233.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C NELAC:Y

Analyst: J. MINNIEAR, II Analysis Date: 27-SEP-11 23:59 Instrument: GC/MS SVOA Test: O505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L

BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L

2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	47		% Rec
PHENOL-D5	30		% Rec
NITROBENZENE-D5	92		% Rec
2-FLUOROBIPHENYL	89		% Rec
2,4,6-TRIBROMOPHENOL	82		% Rec
TERPHENYL-D14	40		% Rec

VOLATILE ORGANICS SW846-8260B NELAC:Y

Analyst: R. SHAMP Analysis Date: 24-SEP-11 15:09 Instrument: GC/MS VOA Test: O510.7.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	1.0	ug/L
BROMOBENZENE	BDL	1.0	ug/L
BROMOCHLOROMETHANE	BDL	1.0	ug/L
BROMODICHLOROMETHANE	BDL	1.0	ug/L
BROMOFORM	BDL	1.0	ug/L
BROMOMETHANE	BDL	1.0	ug/L

N-BUTYLBENZENE	BDL	1.0	ug/L
SEC-BUTYLBENZENE	BDL	1.0	ug/L
TERT-BUTYLBENZENE	BDL	1.0	ug/L
CARBON TETRACHLORIDE	BDL	1.0	ug/L
CHLOROBENZENE	BDL	1.0	ug/L
DIBROMOCHLOROMETHANE	BDL	1.0	ug/L
CHLOROETHANE	BDL	1.0	ug/L
CHLOROFORM	BDL	1.0	ug/L
CHLOROMETHANE	BDL	1.0	ug/L
2-CHLOROTOLUENE (O-CHLOROTOLUENE)	BDL	1.0	ug/L
4-CHLOROTOLUENE (P-CHLOROTOLUENE)	BDL	1.0	ug/L
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	BDL	1.0	ug/L
1,2-DIBROMOETHANE (EDB)	BDL	1.0	ug/L
DIBROMOMETHANE	BDL	1.0	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	1.0	ug/L
1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	BDL	1.0	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	1.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	1.0	ug/L
1,1-DICHLOROETHANE	BDL	1.0	ug/L
1,2-DICHLOROETHANE	BDL	1.0	ug/L
1,1-DICHLOROETHENE	BDL	1.0	ug/L
CIS-1,2-DICHLOROETHENE	BDL	1.0	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	1.0	ug/L
1,2-DICHLOROPROPANE	BDL	1.0	ug/L
1,3-DICHLOROPROPANE	BDL	1.0	ug/L
2,2-DICHLOROPROPANE	BDL	1.0	ug/L
1,1-DICHLOROPROPENE	BDL	1.0	ug/L
ETHYL BENZENE	BDL	1.0	ug/L
HEXACHLOROBUTADIENE	BDL	1.0	ug/L
ISOPROPYLBENZENE (CUMENE)	BDL	1.0	ug/L
4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	BDL	1.0	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	1.0	ug/L
METHYL ETHYL KETONE	BDL	5.0	ug/L
NAPHTHALENE	BDL	1.0	ug/L
N-PROPYLBENZENE	BDL	1.0	ug/L
STYRENE	BDL	1.0	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	1.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	1.0	ug/L
TETRACHLOROETHENE	BDL	1.0	ug/L
TOLUENE	BDL	1.0	ug/L
1,2,3-TRICHLOROBENZENE	BDL	1.0	ug/L

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929118 MW-04-37

1,2,4-TRICHLOROBENZENE	BDL	1.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	1.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	1.0	ug/L
TRICHLOROETHENE	BDL	1.0	ug/L
TRICHLOROFLUOROMETHANE	BDL	1.0	ug/L
1,2,3-TRICHLOROPROPANE	BDL	1.0	ug/L
1,2,4-TRIMETHYLBENZENE	BDL	1.0	ug/L
1,3,5-TRIMETHYLBENZENE	BDL	1.0	ug/L
VINYL CHLORIDE	BDL	1.0	ug/L
METHYL-T-BUTYL ETHER (MTBE)	BDL	1.0	ug/L
N-HEXANE	BDL	1.0	ug/L
O-XYLENE	BDL	1.0	ug/L
M/P-XYLENE	BDL	2.0	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	109		% Rec
TOLUENE-D8	86		% Rec
4-BROMOFLUOROBENZENE	91		% Rec
DIBROMOFLUOROMETHANE	107		% Rec

! Prep Method SW846-5030B Purge and Trap

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 1.6 C.
Sample chain of custody number 078047.

This Certificate shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested or to the sample as received by the lab. Heritage Environmental Services, LLC certifies that the test results indicated as NELAP (National Environmental Laboratory Accreditation Program) accredited (Yes for NELAP) meet all requirements of NELAP and Kansas (KDHE) unless otherwise explained or justified as to the the exact nature of the deviations.
KS ELAP / NELAP Accreditation # E-10177 Indiana SDWA C-49-01

Kurt J Maines

Approved by: KURT MAINES 03-OCT-11

HERITAGE
ENVIRONMENTAL SERVICES

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	21-SEP-11	A929119
	Completed	**PO Number**
	04-OCT-11	..
	Printed	**Sampled**
	04-OCT-11	21-SEP-11 09:39

Report To	Bill To
RICHARD H. WATKIN SR. LOUISVILLE AND JEFFERSON COUNTY MSD 3050 COMMERCE CENTER PLACE LOUISVILLE, KY 40211	RICK WATKINS LOUISVILLE & JEFFERSON COUNTY M.S.D. 3050 COMMERCE CENTER PLACE LOUISVILLE, KY 40211

Sample Description

CLIENT ID: MW-04-37 DUPLICATE
MATRIX TYPE: NON-SPECIFIC WATER
SUBMITTER: 4217 - LOUISVILLE AND JEFFERSON COUNTY MSD
DATA PACKAGE #: 62125
LOCATION: LEES LANE - ANNUAL EVENT
WELL NUMBER: GROUNDWATER

HEXAVALENT CHROMIUM SW846-7196A NELAC:Y

Analyst: E. SOTKIEWICZ Analysis Date: 22-SEP-11 08:00 Test: M110.6.0

Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	BDL	0.01	mg/L

GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: A. DUKES Analysis Date: 22-SEP-11 Instrument: PREP Test: P233.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081 NELAC:Y

Analyst: A. DUKES Analysis Date: 22-SEP-11 21:58 Instrument: GC/ECD Test: O305.1.0

Prep: GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L

ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	0.5	ug/L
PCB AROCLOR 1260	BDL	0.5	ug/L
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	75.9		% Rec

CYANIDE DISTILLATION SW846-9012B

Analyst: E. SOTKIEWICZ — Analysis Date: 24-SEP-11 09:30 — Instrument: PREP — Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	6		mL
FINAL VOLUME	6		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012B — NELAC:Y

Analyst: E. SOTKIEWICZ — Analysis Date: 24-SEP-11 13:00 — Instrument: AUTO-ANALYZER — Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9012B P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

FIELD FILTRATION SAS

Analysis Date: — Instrument: FIELD — Test: P110.0.0

Parameter	Result	Det. Limit	Units

LEAD TRACE ICP SW846-6010B — NELAC:Y

Analyst: J. KRAMER — Analysis Date: 25-SEP-11 01:37 — Instrument: TRACE ICP — Test: M116.0.1

Prep: FIELD FILTRATION SAS P110.0.0

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929119 MW-04-37 DUPLICATE

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

Analyst: K. KAMARA Analysis Date: 22-SEP-11 09:00 Instrument: PREP Test: P130.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M101.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ALUMINUM	BDL	0.050	mg/L

ANTIMONY ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M102.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ANTIMONY	BDL	0.010	mg/L

BARIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M104.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BARIUM	0.15	0.010	mg/L

BERYLLIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M105.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M108.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M109.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	100	0.10	mg/L

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929119 MW-04-37 DUPLICATE

CHROMIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M110.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COBALT ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M111.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COBALT	BDL	0.010	mg/L

COPPER ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M112.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.010	mg/L

IRON ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M115.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
IRON	7.5	0.020	mg/L

MAGNESIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M118.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	37	0.10	mg/L

MANGANESE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M119.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.18	0.010	mg/L

NICKEL ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M122.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.0050	mg/L

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929119 MW-04-37 DUPLICATE

POTASSIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M126.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
POTASSIUM	2.6	0.10	mg/L

SILVER ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M130.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	0.010	mg/L

SODIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M131.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SODIUM	29	0.10	mg/L

VANADIUM ICP SW846-6010B NELAC:N

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M138.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: ICP Test: M139.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 25-SEP-11 03:29 Instrument: TRACE ICP Test: M103.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ARSENIC	0.0095	0.0050	mg/L

LEAD TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 23-SEP-11 09:22 Instrument: TRACE ICP Test: M116.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929119 MW-04-37 DUPLICATE

SELENIUM TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 25-SEP-11 03:29 Instrument: TRACE ICP Test: M128.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 25-SEP-11 03:29 Instrument: TRACE ICP Test: M134.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A NELAC:Y

Analyst: W. WATNESS Analysis Date: 27-SEP-11 04:00 Instrument: PREP Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY CVAA SW846-7470A NELAC:Y

Analyst: W. WATNESS Analysis Date: 27-SEP-11 14:16 Instrument: CVAA Test: M120.1.0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: J. MINNIEAR, II Analysis Date: 23-SEP-11 Instrument: PREP Test: P233.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C NELAC:Y

Analyst: J. MINNIEAR, II Analysis Date: 28-SEP-11 00:37 Instrument: GC/MS SVOA Test: O505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L

Sample ID: A929119 MW-04-37 DUPLICATE

BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L

Sample ID: A929119 MW-04-37 DUPLICATE

2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	50		% Rec
PHENOL-D5	32		% Rec
NITROBENZENE-D5	90		% Rec
2-FLUOROBIPHENYL	86		% Rec
2,4,6-TRIBROMOPHENOL	78		% Rec
TERPHENYL-D14	66		% Rec

VOLATILE ORGANICS SW846-8260B NELAC:Y

Analyst: R. SHAMP Analysis Date: 24-SEP-11 15:35 Instrument: GC/MS VOA Test: O510.7.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	1.0	ug/L
BROMOBENZENE	BDL	1.0	ug/L
BROMOCHLOROMETHANE	BDL	1.0	ug/L
BROMODICHLOROMETHANE	BDL	1.0	ug/L
BROMOFORM	BDL	1.0	ug/L
BROMOMETHANE	BDL	1.0	ug/L

Sample ID: A929119 MW-04-37 DUPLICATE

N-BUTYLBENZENE	BDL	1.0	ug/L
SEC-BUTYLBENZENE	BDL	1.0	ug/L
TERT-BUTYLBENZENE	BDL	1.0	ug/L
CARBON TETRACHLORIDE	BDL	1.0	ug/L
CHLOROBENZENE	BDL	1.0	ug/L
DIBROMOCHLOROMETHANE	BDL	1.0	ug/L
CHLOROETHANE	BDL	1.0	ug/L
CHLOROFORM	BDL	1.0	ug/L
CHLOROMETHANE	BDL	1.0	ug/L
2-CHLOROTOLUENE (O-CHLOROTOLUENE)	BDL	1.0	ug/L
4-CHLOROTOLUENE (P-CHLOROTOLUENE)	BDL	1.0	ug/L
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	BDL	1.0	ug/L
1,2-DIBROMOETHANE (EDB)	BDL	1.0	ug/L
DIBROMOMETHANE	BDL	1.0	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	1.0	ug/L
1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	BDL	1.0	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	1.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	1.0	ug/L
1,1-DICHLOROETHANE	BDL	1.0	ug/L
1,2-DICHLOROETHANE	BDL	1.0	ug/L
1,1-DICHLOROETHENE	BDL	1.0	ug/L
CIS-1,2-DICHLOROETHENE	BDL	1.0	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	1.0	ug/L
1,2-DICHLOROPROPANE	BDL	1.0	ug/L
1,3-DICHLOROPROPANE	BDL	1.0	ug/L
2,2-DICHLOROPROPANE	BDL	1.0	ug/L
1,1-DICHLOROPROPENE	BDL	1.0	ug/L
ETHYL BENZENE	BDL	1.0	ug/L
HEXACHLOROBUTADIENE	BDL	1.0	ug/L
ISOPROPYLBENZENE (CUMENE)	BDL	1.0	ug/L
4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	BDL	1.0	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	1.0	ug/L
METHYL ETHYL KETONE	BDL	5.0	ug/L
NAPHTHALENE	BDL	1.0	ug/L
N-PROPYLBENZENE	BDL	1.0	ug/L
STYRENE	BDL	1.0	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	1.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	1.0	ug/L
TETRACHLOROETHENE	BDL	1.0	ug/L
TOLUENE	BDL	1.0	ug/L
1,2,3-TRICHLOROBENZENE	BDL	1.0	ug/L

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929119 MW-04-37 DUPLICATE

1,2,4-TRICHLOROBENZENE	BDL	1.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	1.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	1.0	ug/L
TRICHLOROETHENE	BDL	1.0	ug/L
TRICHLOROFLUOROMETHANE	BDL	1.0	ug/L
1,2,3-TRICHLOROPROPANE	BDL	1.0	ug/L
1,2,4-TRIMETHYLBENZENE	BDL	1.0	ug/L
1,3,5-TRIMETHYLBENZENE	BDL	1.0	ug/L
VINYL CHLORIDE	BDL	1.0	ug/L
METHYL-T-BUTYL ETHER (MTBE)	BDL	1.0	ug/L
N-HEXANE	BDL	1.0	ug/L
O-XYLENE	BDL	1.0	ug/L
M/P-XYLENE	BDL	2.0	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	112		% Rec
TOLUENE-D8	87		% Rec
4-BROMOFLUOROBENZENE	85		% Rec
DIBROMOFLUOROMETHANE	107		% Rec

Prep Method SW846-5030B Purge and Trap

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 1.6 C.
Sample chain of custody number 078047.

This Certificate shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested or to the sample as received by the lab. Heritage Environmental Services, LLC certifies that the test results indicated as NELAP (National Environmental Laboratory Accreditation Program) accredited (Yes for NELAP) meet all requirements of NELAP and Kansas (KDHE) unless otherwise explained or justified as to the the exact nature of the deviations.
KS ELAP / NELAP Accreditation # E-10177 Indiana SDWA C-49-01

Kurt J Maines

Approved by: KURT MAINES 03-OCT-11

HERITAGE
ENVIRONMENTAL SERVICES

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	21-SEP-11	A929120
	Completed	**PO Number**
	04-OCT-11	..
	Printed	**Sampled**
	04-OCT-11	21-SEP-11 09:35

Report To	Bill To
RICHARD H. WATKIN SR. LOUISVILLE AND JEFFERSON COUNTY MSD 3050 COMMERCE CENTER PLACE LOUISVILLE, KY 40211	RICK WATKINS LOUISVILLE & JEFFERSON COUNTY M.S.D. 3050 COMMERCE CENTER PLACE LOUISVILLE, KY 40211

Sample Description

CLIENT ID: MW-04-37 F.B.
MATRIX TYPE: NON-SPECIFIC WATER
SUBMITTER: 4217 - LOUISVILLE AND JEFFERSON COUNTY MSD
DATA PACKAGE #: 62125
LOCATION: LEES LANE - ANNUAL EVENT
WELL NUMBER: GROUNDWATER

HEXAVALENT CHROMIUM SW846-7196A NELAC:Y

Analyst: E. SOTKIEWICZ Analysis Date: 22-SEP-11 08:00 Test: M110.6.0

Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	BDL	0.01	mg/L

GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: A. DUKES Analysis Date: 22-SEP-11 Instrument: PREP Test: P233.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	890		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081 NELAC:Y

Analyst: A. DUKES Analysis Date: 22-SEP-11 22:12 Instrument: GC/ECD Test: O305.1.0

Prep: GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L

ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	0.5	ug/L
PCB AROCLOR 1260	BDL	0.5	ug/L
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	63.9		% Rec

CYANIDE DISTILLATION SW846-9012B

Analyst: E. SOTKIEWICZ | Analysis Date: 24-SEP-11 09:30 | Instrument: PREP | Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	6		mL
FINAL VOLUME	6		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012B NELAC:Y

Analyst: E. SOTKIEWICZ | Analysis Date: 24-SEP-11 13:00 | Instrument: AUTO-ANALYZER | Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9012B P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

FIELD FILTRATION SAS

Analysis Date: | Instrument: FIELD | Test: P110.0.0

Parameter	Result	Det. Limit	Units

LEAD TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER | Analysis Date: 25-SEP-11 01:42 | Instrument: TRACE ICP | Test: M116.0.1

Prep: FIELD FILTRATION SAS P110.0.0

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929120 MW-04-37 F.B.

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

Analyst: K. KAMARA Analysis Date: 26-SEP-11 09:00 Instrument: PREP Test: P130.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M101.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ALUMINUM	BDL	0.050	mg/L

ANTIMONY ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M102.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ANTIMONY	BDL	0.010	mg/L

BARIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M104.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BARIUM	BDL	0.010	mg/L

BERYLLIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M105.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M108.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M109.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	0.40	0.10	mg/L

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929120 MW-04-37 F.B.

CHROMIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M110.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COBALT ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER. Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M111.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COBALT	BDL	0.010	mg/L

COPPER ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M112.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.010	mg/L

IRON ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M115.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
IRON	BDL	0.020	mg/L

MAGNESIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M118.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	BDL	0.10	mg/L

MANGANESE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M119.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MANGANESE	BDL	0.010	mg/L

NICKEL ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M122.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
NICKEL	0.011	0.0050	mg/L

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929120 MW-04-37 F.B.

POTASSIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M126.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
POTASSIUM	BDL	0.10	mg/L

SILVER ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M130.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	0.010	mg/L

SODIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M131.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SODIUM	0.21	0.10	mg/L

VANADIUM ICP SW846-6010B NELAC:N

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M138.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: ICP Test: M139.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 02-OCT-11 05:14 Instrument: TRACE ICP Test: M103.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

LEAD TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 08:37 Instrument: TRACE ICP Test: M116.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929120 MW-04-37 F.B.

SELENIUM TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 02-OCT-11 05:14 Instrument: TRACE ICP Test: M128.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 02-OCT-11 05:14 Instrument: TRACE ICP Test: M134.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A NELAC:Y

Analyst: W. WATNESS Analysis Date: 27-SEP-11 04:00 Instrument: PREP Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY CVAA SW846-7470A NELAC:Y

Analyst: W. WATNESS Analysis Date: 27-SEP-11 14:18 Instrument: CVAA Test: M120.1.0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: J. MINNIEAR, II Analysis Date: 23-SEP-11 Instrument: PREP Test: P233.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C NELAC:Y

Analyst: J. MINNIEAR, II Analysis Date: 28-SEP-11 01:15 Instrument: GC/MS SVOA Test: O505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L

Sample ID: A929120 MW-04-37 F.B.

BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L

2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	45		% Rec
PHENOL-D5	27		% Rec
NITROBENZENE-D5	91		% Rec
2-FLUOROBIPHENYL	85		% Rec
2,4,6-TRIBROMOPHENOL	83		% Rec
TERPHENYL-D14	93		% Rec

VOLATILE ORGANICS SW846-8260B NELAC:Y

Analyst: R. SHAMP Analysis Date: 24-SEP-11 16:00 Instrument: GC/MS VOA Test: O510.7.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	1.0	ug/L
BROMOBENZENE	BDL	1.0	ug/L
BROMOCHLOROMETHANE	BDL	1.0	ug/L
BROMODICHLOROMETHANE	BDL	1.0	ug/L
BROMOFORM	BDL	1.0	ug/L
BROMOMETHANE	BDL	1.0	ug/L

N-BUTYLBENZENE	BDL	1.0	ug/L
SEC-BUTYLBENZENE	BDL	1.0	ug/L
TERT-BUTYLBENZENE	BDL	1.0	ug/L
CARBON TETRACHLORIDE	BDL	1.0	ug/L
CHLOROBENZENE	BDL	1.0	ug/L
DIBROMOCHLOROMETHANE	BDL	1.0	ug/L
CHLOROETHANE	BDL	1.0	ug/L
CHLOROFORM	BDL	1.0	ug/L
CHLOROMETHANE	BDL	1.0	ug/L
2-CHLOROTOLUENE (O-CHLOROTOLUENE)	BDL	1.0	ug/L
4-CHLOROTOLUENE (P-CHLOROTOLUENE)	BDL	1.0	ug/L
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	BDL	1.0	ug/L
1,2-DIBROMOETHANE (EDB)	BDL	1.0	ug/L
DIBROMOMETHANE	BDL	1.0	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	1.0	ug/L
1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	BDL	1.0	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	1.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	1.0	ug/L
1,1-DICHLOROETHANE	BDL	1.0	ug/L
1,2-DICHLOROETHANE	BDL	1.0	ug/L
1,1-DICHLOROETHENE	BDL	1.0	ug/L
CIS-1,2-DICHLOROETHENE	BDL	1.0	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	1.0	ug/L
1,2-DICHLOROPROPANE	BDL	1.0	ug/L
1,3-DICHLOROPROPANE	BDL	1.0	ug/L
2,2-DICHLOROPROPANE	BDL	1.0	ug/L
1,1-DICHLOROPROPENE	BDL	1.0	ug/L
ETHYL BENZENE	BDL	1.0	ug/L
HEXACHLOROBUTADIENE	BDL	1.0	ug/L
ISOPROPYLBENZENE (CUMENE)	BDL	1.0	ug/L
4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	BDL	1.0	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	1.0	ug/L
METHYL ETHYL KETONE	BDL	5.0	ug/L
NAPHTHALENE	BDL	1.0	ug/L
N-PROPYLBENZENE	BDL	1.0	ug/L
STYRENE	BDL	1.0	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	1.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	1.0	ug/L
TETRACHLOROETHENE	BDL	1.0	ug/L
TOLUENE	BDL	1.0	ug/L
1,2,3-TRICHLOROBENZENE	BDL	1.0	ug/L

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ENVIRONMENTAL SERVICES

Sample ID: A929120 MW-04-37 F.B.

1,2,4-TRICHLOROBENZENE	BDL	1.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	1.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	1.0	ug/L
TRICHLOROETHENE	BDL	1.0	ug/L
TRICHLOROFLUOROMETHANE	BDL	1.0	ug/L
1,2,3-TRICHLOROPROPANE	BDL	1.0	ug/L
1,2,4-TRIMETHYLBENZENE	BDL	1.0	ug/L
1,3,5-TRIMETHYLBENZENE	BDL	1.0	ug/L
VINYL CHLORIDE	BDL	1.0	ug/L
METHYL-T-BUTYL ETHER (MTBE)	BDL	1.0	ug/L
N-HEXANE	BDL	1.0	ug/L
O-XYLENE	BDL	1.0	ug/L
M/P-XYLENE	BDL	2.0	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	112		% Rec
TOLUENE-D8	92		% Rec
4-BROMOFLUOROBENZENE	87		% Rec
DIBROMOFLUOROMETHANE	111		% Rec

Prep Method SW846-5030B Purge and Trap

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 1.6 C.
Sample chain of custody number 078047.

This Certificate shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested or to the sample as received by the lab. Heritage Environmental Services, LLC certifies that the test results indicated as NELAP (National Environmental Laboratory Accreditation Program) accredited (Yes for NELAP) meet all requirements of NELAP and Kansas (KDHE) unless otherwise explained or justified as to the the exact nature of the deviations.
KS ELAP / NELAP Accreditation # E-10177 Indiana SDWA C-49-01

Kurt J Maines

Approved by: KURT MAINES 03-OCT-11

HERITAGE
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CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	21-SEP-11	A929121
	Completed	**PO Number**
	04-OCT-11	..
	Printed	**Sampled**
	04-OCT-11	21-SEP-11 11:22

Report To	Bill To
RICHARD H. WATKIN SR. LOUISVILLE AND JEFFERSON COUNTY MSD 3050 COMMERCE CENTER PLACE LOUISVILLE, KY 40211	RICK WATKINS LOUISVILLE & JEFFERSON COUNTY M.S.D. 3050 COMMERCE CENTER PLACE LOUISVILLE, KY 40211

Sample Description

CLIENT ID: MW-05-37
MATRIX TYPE: NON-SPECIFIC WATER
SUBMITTER: 4217 - LOUISVILLE AND JEFFERSON COUNTY MSD
DATA PACKAGE #: 62125
LOCATION: LEES LANE - ANNUAL EVENT
WELL NUMBER: GROUNDWATER

HEXAVALENT CHROMIUM SW846-7196A NELAC:Y

Analyst: E. SOTKIEWICZ Analysis Date: 22-SEP-11 08:00 Test: M110.6.0

Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	BDL	0.01	mg/L

GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: A. DUKES Analysis Date: 22-SEP-11 Instrument: PREP Test: P233.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	10		mL

PCB/PESTICIDE SCAN GC:ECD SW846-8081 NELAC:Y

Analyst: A. DUKES Analysis Date: 22-SEP-11 22:27 Instrument: GC/ECD Test: O305.1.0

Prep: GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.05	ug/L
BETA-BHC	BDL	0.05	ug/L
DELTA-BHC	BDL	0.05	ug/L
GAMMA-BHC (LINDANE)	BDL	0.05	ug/L
HEPTACHLOR	BDL	0.05	ug/L
ALDRIN	BDL	0.05	ug/L
HEPTACHLOR EPOXIDE	BDL	0.05	ug/L
ENDOSULFAN I	BDL	0.05	ug/L
DIELDRIN	BDL	0.1	ug/L
4,4'-DDE	BDL	0.1	ug/L

ENDRIN	BDL	0.1	ug/L
ENDOSULFAN II	BDL	0.1	ug/L
4,4'-DDD	BDL	0.1	ug/L
ENDOSULFAN SULFATE	BDL	0.1	ug/L
4,4'-DDT	BDL	0.1	ug/L
METHOXYCHLOR	BDL	0.5	ug/L
ENDRIN ALDEHYDE	BDL	0.1	ug/L
ENDRIN KETONE	BDL	0.1	ug/L
ALPHA-CHLORDANE	BDL	0.5	ug/L
GAMMA-CHLORDANE	BDL	0.5	ug/L
TOXAPHENE	BDL	1	ug/L
PCB AROCLOR 1016	BDL	0.5	ug/L
PCB AROCLOR 1221	BDL	0.5	ug/L
PCB AROCLOR 1232	BDL	0.5	ug/L
PCB AROCLOR 1242	BDL	0.5	ug/L
PCB AROCLOR 1248	BDL	0.5	ug/L
PCB AROCLOR 1254	BDL	0.5	ug/L
PCB AROCLOR 1260	BDL	0.5	ug/L
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	66.9		% Rec

CYANIDE DISTILLATION SW846-9012B

Analyst: E. SOTKIEWICZ — Analysis Date: 24-SEP-11 09:30 — Instrument: PREP — Test: P101.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	6		mL
FINAL VOLUME	6		mL

CYANIDE, TOTAL (AUTOMATED) SW846-9012B — NELAC:Y

Analyst: E. SOTKIEWICZ — Analysis Date: 24-SEP-11 13:00 — Instrument: AUTO-ANALYZER — Test: G101.4.0

Prep: CYANIDE DISTILLATION SW846-9012B P101.4.0

Parameter	Result	Det. Limit	Units
CYANIDE	BDL	0.005	mg/L

FIELD FILTRATION SAS

Analysis Date: — Instrument: FIELD — Test: P110.0.0

Parameter	Result	Det. Limit	Units

LEAD TRACE ICP SW846-6010B — NELAC:Y

Analyst: J. KRAMER — Analysis Date: 25-SEP-11 01:47 — Instrument: TRACE ICP — Test: M116.0.1

Prep: FIELD FILTRATION SAS P110.0.0

HERITAGE
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Sample ID: A929121 MW-05-37

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

Analyst: K. KAMARA Analysis Date: 26-SEP-11 09:00 Instrument: PREP Test: P130.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL WEIGHT OR VOLUME	50		mL

ALUMINUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M101.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ALUMINUM	0.072	0.050	mg/L

ANTIMONY ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M102.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ANTIMONY	BDL	0.010	mg/L

BARIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M104.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BARIUM	0.53	0.010	mg/L

BERYLLIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M105.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
BERYLLIUM	BDL	0.0040	mg/L

CADMIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M108.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CALCIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M109.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	53	0.10	mg/L

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929121 MW-05-37

CHROMIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M110.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

COBALT ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M111.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COBALT	BDL	0.010	mg/L

COPPER ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M112.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
COPPER	BDL	0.010	mg/L

IRON ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M115.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
IRON	4.5	0.020	mg/L

MAGNESIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M118.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	19	0.10	mg/L

MANGANESE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M119.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.23	0.010	mg/L

NICKEL ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M122.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
NICKEL	0.0064	0.0050	mg/L

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929121 MW-05-37

POTASSIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M126.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
POTASSIUM	13	0.10	mg/L

SILVER ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M130.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	0.010	mg/L

SODIUM ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M131.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SODIUM	16	0.10	mg/L

VANADIUM ICP SW846-6010B NELAC:N

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M138.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
VANADIUM	BDL	0.010	mg/L

ZINC ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: ICP Test: M139.3.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ZINC	BDL	0.020	mg/L

ARSENIC TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 02-OCT-11 04:58 Instrument: TRACE ICP Test: M103.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ARSENIC	0.030	0.0050	mg/L

LEAD TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 28-SEP-11 07:40 Instrument: TRACE ICP Test: M116.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.0050	mg/L

HERITAGE
ENVIRONMENTAL SERVICES

Sample ID: A929121 MW-05-37

SELENIUM TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 02-OCT-11 04:58 Instrument: TRACE ICP Test: M128.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.0050	mg/L

THALLIUM TRACE ICP SW846-6010B NELAC:Y

Analyst: J. KRAMER Analysis Date: 02-OCT-11 04:58 Instrument: TRACE ICP Test: M134.0.0

Prep: FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
THALLIUM	BDL	0.010	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A NELAC:Y

Analyst: W. WATNESS Analysis Date: 27-SEP-11 04:00 Instrument: PREP Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY CVAA SW846-7470A NELAC:Y

Analyst: W. WATNESS Analysis Date: 27-SEP-11 14:19 Instrument: CVAA Test: M120.1.0

Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A P131.6.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

Analyst: J. MINNIEAR, II Analysis Date: 23-SEP-11 Instrument: PREP Test: P233.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C NELAC:Y

Analyst: J. MINNIEAR, II Analysis Date: 28-SEP-11 18:14 Instrument: GC/MS SVOA Test: O505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C P233.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L

BENZYLBUTYLPHTHALATE	BDL	10	ug/L
BIS(2-CHLOROETHOXY)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLOROISOPROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	10	ug/L
4-BROMOPHENYLPHENYLETHER	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLOROANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
4-CHLOROPHENYLPHENYLETHER	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DIBENZ(A,H)ANTHRACENE	BDL	10	ug/L
DIBENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHTHALATE	BDL	10	ug/L
DIMETHYLPHTHALATE	BDL	10	ug/L
DI-N-BUTYLPHTHALATE	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROTOLUENE	BDL	10	ug/L
2,6-DINITROTOLUENE	BDL	10	ug/L
DI-N-OCTYLPHTHALATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L

2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
1,2,4,5-TETRACHLOROBENZENE	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			

2-FLUOROPHENOL	52		% Rec
PHENOL-D5	32		% Rec
NITROBENZENE-D5	92		% Rec
2-FLUOROBIPHENYL	88		% Rec
2,4,6-TRIBROMOPHENOL	86		% Rec
TERPHENYL-D14	65		% Rec

VOLATILE ORGANICS SW846-8260B NELAC:Y

Analyst: R. SHAMP Analysis Date: 24-SEP-11 16:25 Instrument: GC/MS VOA Test: O510.7.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	1.0	ug/L
BROMOBENZENE	BDL	1.0	ug/L
BROMOCHLOROMETHANE	BDL	1.0	ug/L
BROMODICHLOROMETHANE	BDL	1.0	ug/L
BROMOFORM	BDL	1.0	ug/L
BROMOMETHANE	BDL	1.0	ug/L

N-BUTYLBENZENE	BDL	1.0	ug/L
SEC-BUTYLBENZENE	BDL	1.0	ug/L
TERT-BUTYLBENZENE	BDL	1.0	ug/L
CARBON TETRACHLORIDE	BDL	1.0	ug/L
CHLOROBENZENE	BDL	1.0	ug/L
DIBROMOCHLOROMETHANE	BDL	1.0	ug/L
CHLOROETHANE	BDL	1.0	ug/L
CHLOROFORM	BDL	1.0	ug/L
CHLOROMETHANE	BDL	1.0	ug/L
2-CHLOROTOLUENE (O-CHLOROTOLUENE)	BDL	1.0	ug/L
4-CHLOROTOLUENE (P-CHLOROTOLUENE)	BDL	1.0	ug/L
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	BDL	1.0	ug/L
1,2-DIBROMOETHANE (EDB)	BDL	1.0	ug/L
DIBROMOMETHANE	BDL	1.0	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	1.0	ug/L
1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	BDL	1.0	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	1.0	ug/L
DICHLORODIFLUOROMETHANE	BDL	1.0	ug/L
1,1-DICHLOROETHANE	BDL	1.0	ug/L
1,2-DICHLOROETHANE	BDL	1.0	ug/L
1,1-DICHLOROETHENE	BDL	1.0	ug/L
CIS-1,2-DICHLOROETHENE	BDL	1.0	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	1.0	ug/L
1,2-DICHLOROPROPANE	BDL	1.0	ug/L
1,3-DICHLOROPROPANE	BDL	1.0	ug/L
2,2-DICHLOROPROPANE	BDL	1.0	ug/L
1,1-DICHLOROPROPENE	BDL	1.0	ug/L
ETHYL BENZENE	BDL	1.0	ug/L
HEXACHLOROBUTADIENE	BDL	1.0	ug/L
ISOPROPYLBENZENE (CUMENE)	BDL	1.0	ug/L
4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	BDL	1.0	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	1.0	ug/L
METHYL ETHYL KETONE	BDL	5.0	ug/L
NAPHTHALENE	BDL	1.0	ug/L
N-PROPYLBENZENE	BDL	1.0	ug/L
STYRENE	BDL	1.0	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	1.0	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	1.0	ug/L
TETRACHLOROETHENE	BDL	1.0	ug/L
TOLUENE	BDL	1.0	ug/L
1,2,3-TRICHLOROBENZENE	BDL	1.0	ug/L

HERITAGE
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Sample ID: A929121 MW-05-37

1,2,4-TRICHLOROBENZENE	BDL	1.0	ug/L
1,1,1-TRICHLOROETHANE	BDL	1.0	ug/L
1,1,2-TRICHLOROETHANE	BDL	1.0	ug/L
TRICHLOROETHENE	BDL	1.0	ug/L
TRICHLOROFLUOROMETHANE	BDL	1.0	ug/L
1,2,3-TRICHLOROPROPANE	BDL	1.0	ug/L
1,2,4-TRIMETHYLBENZENE	BDL	1.0	ug/L
1,3,5-TRIMETHYLBENZENE	BDL	1.0	ug/L
VINYL CHLORIDE	BDL	1.0	ug/L
METHYL-T-BUTYL ETHER (MTBE)	BDL	1.0	ug/L
N-HEXANE	BDL	1.0	ug/L
O-XYLENE	BDL	1.0	ug/L
M/P-XYLENE	BDL	2.0	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	101		% Rec
TOLUENE-D8	89		% Rec
4-BROMOFLUOROBENZENE	94		% Rec
DIBROMOFLUOROMETHANE	105		% Rec

Prep Method SW846-5030B Purge and Trap

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 1.6 C.
Sample chain of custody number 078047.

This Certificate shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested or to the sample as received by the lab. Heritage Environmental Services, LLC certifies that the test results indicated as NELAP (National Environmental Laboratory Accreditation Program) accredited (Yes for NELAP) meet all requirements of NELAP and Kansas (KDHE) unless otherwise explained or justified as to the the exact nature of the deviations.
KS ELAP / NELAP Accreditation # E-10177 Indiana SDWA C-49-01

Kurt J Maines

Approved by: KURT MAINES 03-OCT-11

01074440

HERITAGE ENVIRONMENTAL SERVICES, LLC.

COMMERCIAL LABORATORY OPERATIONS

7901 West Morris Street Indianapolis IN 46231

www.heritage-enviro.com (800)827-4374 Fax: (317) 486-5095

I-078047

Customer name/number: MSD

Submitter #

Project Name: Lee's Lane Project 37

Z Quote No: (Given to you by your contact)

PO No. or Project/Activity ID:

PRINT HERITAGE TSR NAME:

CUSTOMER STATUS: New / Existing

If no previous credit has been established with Heritage, **prepayment** (check,VISA,etc) is required at the time of sample submittal to the laboratory.

Sampled By: D.W. / R.F. / J.L.

Analyses Requested (Note special detection limits or methods)

Send Report To:

Co: Louisville + Jeff. Co. MSD

Add:

Attn: Rick Watkins

Phone: ( ) Yes

Fax: ( )

E-mail:

Sample Turn Around Time

Standard: ____ Rush Date ___/___/___ Mo Day Yr

(Accelerated TAT subject to Additional Charge)
(Date must be Accepted and Approved by Lab)

Date Sampled	Time sampled	Comp	Grab	Sample ID and/or Location where your sample was taken	Sample type (Matrix): DW, GW, WW, Soil, Oil, Sludge, Swipe, Other	Number of Containers	PCB/Pest	Semivol	Metals	Cyanide	VOC	Filter Lead	Chrome Hex			Remarks:	Lab use only Sample No
9.21.11	9.39 AM/PM			MW-04-37	WW	12	✓	✓	✓	✓	✓	✓	✓				A929118
9.21.11	9:39 AM/PM			MW-04-37 Duplicate	WW	12	✓	✓	✓	✓	✓	✓	✓				119
9.21.11	9.35 AM/PM			MW-04-37 F.B.	DI	10	✓	✓	✓	✓	✓	✓	✓				120
9.21.11	11:22 AM/PM			MW-05-37	WW	12	✓	✓	✓	✓	✓	✓	✓				121
9.21.11	AM/PM			MW-05-37 Trip Blank	DI	2					✓						122
	AM/PM																
	AM/PM																
	AM/PM																
	AM/PM																
	AM/PM																
	AM/PM																

Relinquished by: (Signature) Date/Time 9.21.11 / 12:10pm

Received by: (Signature)

Relinquished by: (Signature) Date/Time /

Received by: (Signature)

Relinquished by: (Signature) Date/Time /

Received by: (Signature) (1.8)

Received for Lab by: (Signature)

Date 9/21/11 Temp. 1-6 °C

Time 1645 ROI: Yes / No

Laboratory use only	Yes	No
Custody seals present/intact?	—	
Broken containers?		—
COC agree with sample labels?	✓	
Correct containers for testing?	—	
Headspace issues acceptable?	—	
Holding time(s) acceptable?	✓	
Preservative pH's acceptable?	✓	
Was pH left unadjusted?	✓	

Comments:

MW-04-37FB Via filter

Lead was not filtered

Field Blank.

1C Bottle collected for Field Blank

ORIGINAL

HERITAGE
ENVIRONMENTAL SERVICES

Quality Assurance Report

62125

04-OCT-11

Service Location	Submitter
Heritage Environmental Services, LLC Commercial Laboratory Operations 7901 West Morris Street Indianapolis, IN 46231 (317) 243-8304	RICHARD H. WATKIN SR. LOUISVILLE AND JEFFERSON COUNTY MSD 3050 COMMERCE CENTER PLACE LOUISVILLE, KY 40211

Sample ID	Client ID	Date/Time Sampled	Date Received	Date Released
A929118	MW-04-37.....	21-Sep-11 09:39	21-Sep-11	03-Oct-2011
	WELL NUMBER :	GROUNDWATER		
	LOCATION :	LEES LANE - ANNUAL EVENT		
A929119	MW-04-37 DUPLICATE..	21-Sep-11 09:39	21-Sep-11	03-Oct-2011
	WELL NUMBER :	GROUNDWATER		
	LOCATION :	LEES LANE - ANNUAL EVENT		
A929120	MW-04-37 F.B.....	21-Sep-11 09:35	21-Sep-11	03-Oct-2011
	WELL NUMBER :	GROUNDWATER		
	LOCATION :	LEES LANE - ANNUAL EVENT		
A929121	MW-05-37.....	21-Sep-11 11:22	21-Sep-11	03-Oct-2011
	WELL NUMBER :	GROUNDWATER		
	LOCATION :	LEES LANE - ANNUAL EVENT		

HERITAGE ENVIRONMENTAL SERVICES

62125

PCB/PESTICIDE SCAN GC:ECD SW846-8081 **O305.1**
Prep : GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586647 Prep — Analyst: A DUKES — Reviewer: E WERNZ — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481785		Analytical Run: R586673							
LCS	Q2481786		Analytical Run: R586673							
DLCS	Q2481787		Analytical Run: R586673							
SAMPLE	A929118	Rep: 0	Analytical Run: R586673							
SAMPLE	A929119	Rep: 0	Analytical Run: R586673							
SAMPLE	A929120	Rep: 0	Analytical Run: R586673							
SAMPLE	A929121	Rep: 0	Analytical Run: R586673							

R586673 Analytical — Analyst: A DUKES — Reviewer: E WERNZ — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: GC/ECD

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2481963		ALPHA-BHC	26600000						13.22
CAL01	Q2481963		BETA-BHC	9040000						11.39
CAL01	Q2481963		DELTA-BHC	22900000						17.51
CAL01	Q2481963		GAMMA-BHC (LINDANE)	23800000						12.32
CAL01	Q2481963		HEPTACHLOR	16800000						14.19
CAL01	Q2481963		ALDRIN	29100000						9.23
CAL01	Q2481963		HEPTACHLOR EPOXIDE	22900000						8.86
CAL01	Q2481963		ENDOSULFAN I	22000000						10.08
CAL01	Q2481963		DIELDRIN	23400000						9.83
CAL01	Q2481963		4,4'-DDE	28900000						7.22
CAL01	Q2481963		ENDRIN	12700000						12.53
CAL01	Q2481963		ENDOSULFAN II	18200000						13.59
CAL01	Q2481963		4,4'-DDD	17000000						15.08
CAL01	Q2481963		ENDOSULFAN SULFATE	18000000						12.96
CAL01	Q2481963		4,4'-DDT	9590000						19.82
CAL01	Q2481963		METHOXYCHLOR	4370000						17.42
CAL01	Q2481963		ENDRIN ALDEHYDE	16000000						11.84
CAL01	Q2481963		ENDRIN KETONE	18700000						14.26
CAL01	Q2481963		ALPHA-CHLORDANE	23400000						12.47
CAL01	Q2481963		GAMMA-CHLORDANE	23600000						13.21
CAL01	Q2481963		DECACHLOROBIPHENYL (DCB)	18900000						8.72
ICV01	Q2481964		ALPHA-BHC	50.0			58.7	mg/L	117.4	
ICV01	Q2481964		BETA-BHC	50.0			63.3	mg/L	126.6	
ICV01	Q2481964		DELTA-BHC	50.0			61.8	mg/L	123.6	
ICV01	Q2481964		GAMMA-BHC (LINDANE)	50.0			58.5	mg/L	117.0	
ICV01	Q2481964		HEPTACHLOR	50.0			63.8	mg/L	127.6	
ICV01	Q2481964		ALDRIN	50.0			55.2	mg/L	110.4	
ICV01	Q2481964		HEPTACHLOR EPOXIDE	50.0			55.4	mg/L	110.8	
ICV01	Q2481964		ENDOSULFAN I	50.0			55.6	mg/L	111.2	
ICV01	Q2481964		DIELDRIN	50.0			56.7	mg/L	113.4	
ICV01	Q2481964		4,4'-DDE	50.0			56.1	mg/L	112.2	
ICV01	Q2481964		ENDRIN	50.0			59.3	mg/L	118.6	
ICV01	Q2481964		ENDOSULFAN II	50.0			59.0	mg/L	118.0	
ICV01	Q2481964		4,4'-DDD	50.0			59.2	mg/L	118.4	
ICV01	Q2481964		ENDOSULFAN SULFATE	50.0			58.1	mg/L	116.2	
ICV01	Q2481964		4,4'-DDT	50.0			58.3	mg/L	116.6	

PCB/PESTICIDE SCAN GC:ECD SW846-8081 **O305.1**
Prep : GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586673 Analyst: A DUKES Run Date: 22-Sep-11
Analytical Reviewer: E WERNZ Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2481964		METHOXYCHLOR	50.0			52.7	mg/L	105.4	
ICV01	Q2481964		ENDRIN ALDEHYDE	50.0			49.0	mg/L	98.0	
ICV01	Q2481964		ENDRIN KETONE	50.0			57.2	mg/L	114.4	
ICV01	Q2481964		ALPHA-CHLORDANE	50.0			58.5	mg/L	117.0	
ICV01	Q2481964		GAMMA-CHLORDANE	50.0			59.1	mg/L	118.2	
ICV01	Q2481964		DECACHLOROBIPHENYL (DCB)	50.0			51.8		103.6	
BLA02	Q2481785		ALPHA-BHC			BDL	0.05	ug/L		
BLA02	Q2481785		BETA-BHC			BDL	0.05	ug/L		
BLA02	Q2481785		DELTA-BHC			BDL	0.05	ug/L		
BLA02	Q2481785		GAMMA-BHC (LINDANE)			BDL	0.05	ug/L		
BLA02	Q2481785		HEPTACHLOR			BDL	0.05	ug/L		
BLA02	Q2481785		ALDRIN			BDL	0.05	ug/L		
BLA02	Q2481785		HEPTACHLOR EPOXIDE			BDL	0.05	ug/L		
BLA02	Q2481785		ENDOSULFAN I			BDL	0.05	ug/L		
BLA02	Q2481785		DIELDRIN			BDL	0.1	ug/L		
BLA02	Q2481785		4,4'-DDE			BDL	0.1	ug/L		
BLA02	Q2481785		ENDRIN			BDL	0.1	ug/L		
BLA02	Q2481785		ENDOSULFAN II			BDL	0.1	ug/L		
BLA02	Q2481785		4,4'-DDD			BDL	0.1	ug/L		
BLA02	Q2481785		ENDOSULFAN SULFATE			BDL	0.1	ug/L		
BLA02	Q2481785		4,4'-DDT			BDL	0.1	ug/L		
BLA02	Q2481785		METHOXYCHLOR			BDL	0.5	ug/L		
BLA02	Q2481785		ENDRIN ALDEHYDE			BDL	0.1	ug/L		
BLA02	Q2481785		ENDRIN KETONE			BDL	0.1	ug/L		
BLA02	Q2481785		ALPHA-CHLORDANE			BDL	0.5	ug/L		
BLA02	Q2481785		GAMMA-CHLORDANE			BDL	0.5	ug/L		
BLA02	Q2481785		TOXAPHENE			BDL	1	ug/L		
BLA02	Q2481785		PCB AROCLOR 1016			BDL	0.5	ug/L		
BLA02	Q2481785		PCB AROCLOR 1221			BDL	0.5	ug/L		
BLA02	Q2481785		PCB AROCLOR 1232			BDL	0.5	ug/L		
BLA02	Q2481785		PCB AROCLOR 1242			BDL	0.5	ug/L		
BLA02	Q2481785		PCB AROCLOR 1248			BDL	0.5	ug/L		
BLA02	Q2481785		PCB AROCLOR 1254			BDL	0.5	ug/L		
BLA02	Q2481785		PCB AROCLOR 1260			BDL	0.5	ug/L		
BLA02	Q2481785		DECACHLOROBIPHENYL (DCB)						95.1	
LCS	Q2481786		ALPHA-BHC	0.20			0.215	ug/L	107.5	
LCS	Q2481786		BETA-BHC	0.20			0.220	ug/L	110.0	
LCS	Q2481786		DELTA-BHC	0.20			0.229	ug/L	114.5	
LCS	Q2481786		GAMMA-BHC (LINDANE)	0.20			0.216	ug/L	108.0	
LCS	Q2481786		HEPTACHLOR	0.20			0.222	ug/L	111.0	
LCS	Q2481786		ALDRIN	0.20			0.189	ug/L	94.5	
LCS	Q2481786		HEPTACHLOR EPOXIDE	0.20			0.218	ug/L	109.0	
LCS	Q2481786		ENDOSULFAN I	0.20			0.210	ug/L	105.0	
LCS	Q2481786		DIELDRIN	0.40			0.450	ug/L	112.5	
LCS	Q2481786		4,4'-DDE	0.40			0.422	ug/L	105.5	
LCS	Q2481786		ENDRIN	0.40			0.601	ug/L	150.2	
LCS	Q2481786		ENDOSULFAN II	0.40			0.464	ug/L	116.0	

PCB/PESTICIDE SCAN GC:ECD SW846-8081 **O305.1**
Prep : GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586673 Analytical — Analyst: A DUKES — Reviewer: E WERNZ — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2481786		4,4'-DDD	0.40			0.468	ug/L	117.0	
LCS	Q2481786		ENDOSULFAN SULFATE	0.40			0.453	ug/L	113.2	
LCS	Q2481786		4,4'-DDT	0.40			0.517	ug/L	129.2	
LCS	Q2481786		METHOXYCHLOR	2.00			2.611	ug/L	130.6	
LCS	Q2481786		ENDRIN ALDEHYDE	0.40			0.426	ug/L	106.5	
LCS	Q2481786		ENDRIN KETONE	0.40			0.441	ug/L	110.2	
LCS	Q2481786		ALPHA-CHLORDANE	0.20			0.206	ug/L	103.0	
LCS	Q2481786		GAMMA-CHLORDANE	0.20			0.216	ug/L	108.0	
DLCS	Q2481787		ALPHA-BHC	0.20			0.227	ug/L	113.5	5.4
DLCS	Q2481787		BETA-BHC	0.20			0.221	ug/L	110.5	0.4
DLCS	Q2481787		DELTA-BHC	0.20			0.227	ug/L	113.5	0.9
DLCS	Q2481787		GAMMA-BHC (LINDANE)	0.20			0.223	ug/L	111.5	3.2
DLCS	Q2481787		HEPTACHLOR	0.20			0.189	ug/L	94.5	16.0
DLCS	Q2481787		ALDRIN	0.20			0.180	ug/L	90.0	4.9
DLCS	Q2481787		HEPTACHLOR EPOXIDE	0.20			0.216	ug/L	108.0	0.9
DLCS	Q2481787		ENDOSULFAN I	0.20			0.216	ug/L	108.0	2.8
DLCS	Q2481787		DIELDRIN	0.40			0.442	ug/L	110.5	1.8
DLCS	Q2481787		4,4'-DDE	0.40			0.441	ug/L	110.2	4.4
DLCS	Q2481787		ENDRIN	0.40			0.489	ug/L	122.2	20.6
DLCS	Q2481787		ENDOSULFAN II	0.40			0.442	ug/L	110.5	4.8
DLCS	Q2481787		4,4'-DDD	0.40			0.448	ug/L	112.0	4.4
DLCS	Q2481787		ENDOSULFAN SULFATE	0.40			0.425	ug/L	106.2	6.4
DLCS	Q2481787		4,4'-DDT	0.40			0.443	ug/L	110.8	15.3
DLCS	Q2481787		METHOXYCHLOR	2.00			2.082	ug/L	104.1	22.6
DLCS	Q2481787		ENDRIN ALDEHYDE	0.40			0.403	ug/L	100.8	5.5
DLCS	Q2481787		ENDRIN KETONE	0.40			0.402	ug/L	100.5	9.2
DLCS	Q2481787		ALPHA-CHLORDANE	0.20			0.211	ug/L	105.5	2.4
DLCS	Q2481787		GAMMA-CHLORDANE	0.20			0.212	ug/L	106.0	1.9
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2481965		ALPHA-BHC	20.0		*	23.4	mg/L	117.0	
CCV	Q2481965		BETA-BHC	20.0			22.8	mg/L	114.0	
CCV	Q2481965		DELTA-BHC	20.0		*	23.4	mg/L	117.0	
CCV	Q2481965		GAMMA-BHC (LINDANE)	20.0			22.9	mg/L	114.5	
CCV	Q2481965		HEPTACHLOR	20.0		*	23.3	mg/L	116.5	
CCV	Q2481965		ALDRIN	20.0			22.1	mg/L	110.5	
CCV	Q2481965		HEPTACHLOR EPOXIDE	20.0			22.0	mg/L	110.0	
CCV	Q2481965		ENDOSULFAN I	20.0			22.1	mg/L	110.5	
CCV	Q2481965		DIELDRIN	40.0			45.1	mg/L	112.8	
CCV	Q2481965		4,4'-DDE	40.0			44.0	mg/L	110.0	
CCV	Q2481965		ENDRIN	40.0			42.6	mg/L	106.5	
CCV	Q2481965		ENDOSULFAN II	40.0			45.2	mg/L	113.0	
CCV	Q2481965		4,4'-DDD	40.0			43.4	mg/L	108.5	
CCV	Q2481965		ENDOSULFAN SULFATE	40.0			45.2	mg/L	113.0	
CCV	Q2481965		4,4'-DDT	40.0			41.5	mg/L	103.8	

PCB/PESTICIDE SCAN GC:ECD SW846-8081 **O305.1**
Prep : GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586673 Analyst: A DUKES Run Date: 22-Sep-11
Analytical Reviewer: E WERNZ Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCV	Q2481965		METHOXYCHLOR	200.0			195.9	mg/L	98.0	
CCV	Q2481965		ENDRIN ALDEHYDE	40.0			43.6	mg/L	109.0	
CCV	Q2481965		ENDRIN KETONE	40.0			44.0	mg/L	110.0	
CCV	Q2481965		ALPHA-CHLORDANE	20.0			22.3	mg/L	111.5	
CCV	Q2481965		GAMMA-CHLORDANE	20.0			22.4	mg/L	112.0	
CCV	Q2481965		DECACHLOROBIPHENYL (DCB)	40			44.9		112.2	

Q2481965 * Analyte recoveries are bias high; samples are BDL
Q2481965 * Analyte recoveries are bias high; samples are BDL

POTASSIUM ICP SW846-6010B **M126.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
DUP02	Q2481640	A928639	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	POTASSIUM	0.1			0.0823	mg/L	82.3	
ICV01	Q2481883	PERKIN ELM	POTASSIUM	20			19.3	mg/L	96.5	
LCCV	Q2481937	INORGANIC	POTASSIUM	0.1			0.0846	mg/L	84.6	
CDL01	Q2481929	INORGANIC	POTASSIUM	0.1			0.0829	mg/L	82.9	
SER01	Q2481935	A929008	POTASSIUM	7.28			6.40	mg/L		12.9
CCV	Q2481924	INORGANIC	POTASSIUM	50			51.8	mg/L	103.6	
BLA01	Q2481903	NA	POTASSIUM			<	0.0400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	POTASSIUM	50			51.7	mg/L	103.4	
BLA01	Q2481904	NA	POTASSIUM			<	0.0400	mg/L		
SER01	Q2482049	A928993	POTASSIUM	2920			2700	mg/L		7.8
CDL01	Q2482047	INORGANIC	POTASSIUM	0.1			0.0823	mg/L	82.3	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD

POTASSIUM ICP SW846-6010B **M126.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586671 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	POTASSIUM				0.00706	mg/L		
LCS	Q2481639	SPEX	POTASSIUM	100			110	mg/L	110.0	
DUP02	Q2481640	A928639	POTASSIUM	18.0			17.8	mg/L		1.1
SPI02	Q2481641	A928639	POTASSIUM	18.0	100		141	mg/L	123.0	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	POTASSIUM				0.00140	mg/L		
LCS	Q2482842	SPEX	POTASSIUM	100			106	mg/L	106.0	
DUP02	Q2482843	A929121	POTASSIUM	12.6			13.2	mg/L		4.6
SPI02	Q2482844	A929121	POTASSIUM	12.6	100		119	mg/L	106.4	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	POTASSIUM	0.1			0.0845	mg/L	84.5	
ICV01	Q2483675	PERKIN ELM	POTASSIUM	20			18.9	mg/L	94.5	
CDL01	Q2483669	INORGANIC	POTASSIUM	0.1			0.0832	mg/L	83.2	
LCCV	Q2483678	INORGANIC	POTASSIUM	0.1			0.0856	mg/L	85.6	
SER01	Q2483673	A929233	POTASSIUM	35.1			23.8	mg/L		38.4
CCV	Q2483664	INORGANIC	POTASSIUM	50			51.9	mg/L	103.8	
BLA01	Q2483654	NA	POTASSIUM			<	0.0400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	POTASSIUM	50			51.8	mg/L	103.6	
BLA01	Q2483655	NA	POTASSIUM			<	0.0400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	POTASSIUM	50			52.7	mg/L	105.4	
BLA01	Q2483656	NA	POTASSIUM			<	0.0400	mg/L		
SER01	Q2483672	A929081	POTASSIUM	3.56			2.51	mg/L		34.6
CDL01	Q2483734	INORGANIC	POTASSIUM	0.1			0.100	mg/L	100.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na

POTASSIUM ICP SW846-6010B **M126.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
Q2483672	as indicated by the serial dilution results.									
Q2483672	as indicated by the serial dilution results.									
Q2483673	1:5 Dilution.									
Q2483673	1:5 Dilution.									

ALUMINUM ICP SW846-6010B **M101.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
DUP02	Q2481644	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	ALUMINUM	0.0500			0.0455	mg/L	91.0	
ICV01	Q2481883	PERKIN ELM	ALUMINUM	1			1.00	mg/L	100.0	
LCCV	Q2481937	INORGANIC	ALUMINUM	0.0500			0.0446	mg/L	89.2	
CDL01	Q2481929	INORGANIC	ALUMINUM	0.0500			0.0427	mg/L	85.4	
ICS-A	Q2481931	PERKIN-ELM	ALUMINUM	500			512	mg/L	102.4	
ICS-AB	Q2481905	PERKIN ELM	ALUMINUM	500			511	mg/L	102.2	
SER01	Q2481935	A929008	ALUMINUM	0.659			0.638	mg/L		3.2
CCV	Q2481924	INORGANIC	ALUMINUM	5.00			5.00	mg/L	100.0	
BLA01	Q2481903	NA	ALUMINUM			<	0.0200	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	ALUMINUM	5.00			4.99	mg/L	99.8	
BLA01	Q2481904	NA	ALUMINUM			<	0.0200	mg/L		
SER01	Q2482049	A928993	ALUMINUM	2020			2070	mg/L		2.4
CDL01	Q2482047	INORGANIC	ALUMINUM	0.0500			0.0428	mg/L	85.6	
ICS-A	Q2482048	PERKIN-ELM	ALUMINUM	500			513	mg/L	102.6	
ICS-AB	Q2482041	PERKIN ELM	ALUMINUM	500			509	mg/L	101.8	
Q2481935	1:5 Dilution.									
Q2481935	1:5 Dilution.									
Q2482049	1:500 Dilution.									
Q2482049	1:500 Dilution.									

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

ALUMINUM ICP SW846-6010B **M101.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586671 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	ALUMINUM			<	0.00240	mg/L		
LCS	Q2481639	SPEX	ALUMINUM	2			2.15	mg/L	107.5	
SPI02	Q2481641	A928639	ALUMINUM	0	2.00		2.19	mg/L	109.5	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
DUP02	Q2482847	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2481644	A928639	ALUMINUM	0		BDL		mg/L		

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	ALUMINUM			<	0.00240	mg/L		
LCS	Q2482842	SPEX	ALUMINUM	2			2.10	mg/L	105.0	
DUP02	Q2482843	A929121	ALUMINUM	0.0722			0.0870	mg/L		18.6
SPI02	Q2482844	A929121	ALUMINUM	0.0722	2.00		2.22	mg/L	107.4	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	ALUMINUM	0.0500			0.0493	mg/L	98.6	
ICV01	Q2483675	PERKIN ELM	ALUMINUM	1			1.00	mg/L	100.0	
CDL01	Q2483670	INORGANIC	ALUMINUM	10			10.0	mg/L	100.0	
ICS-A	Q2483671	PERKIN-ELM	ALUMINUM	500			519	mg/L	103.8	
ICS-AB	Q2483657	PERKIN ELM	ALUMINUM	500			513	mg/L	102.6	
LCCV	Q2483678	INORGANIC	ALUMINUM	0.0500			0.0479	mg/L	95.8	
SER01	Q2483673	A929233	ALUMINUM	1.21			1.12	mg/L		7.7
CCV	Q2483664	INORGANIC	ALUMINUM	5.00			5.11	mg/L	102.2	
BLA01	Q2483654	NA	ALUMINUM			<	0.0200	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	ALUMINUM	5.00			5.12	mg/L	102.4	
BLA01	Q2483655	NA	ALUMINUM			<	0.0200	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							

ALUMINUM ICP SW846-6010B **M101.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCV	Q2483666	INORGANIC	ALUMINUM	5.00			5.07	mg/L	101.4	
BLA01	Q2483656	NA	ALUMINUM			<	0.0200	mg/L		
SER01	Q2483672	A929081	ALUMINUM	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	ALUMINUM	0.0500			0.0461	mg/L	92.2	
ICS-A	Q2483735	PERKIN-ELM	ALUMINUM	500			496	mg/L	99.2	
ICS-AB	Q2483729	PERKIN ELM	ALUMINUM	500			499	mg/L	99.8	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 01-Oct-11 — Review Date: 03-Oct-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2482847	A929121	ALUMINUM	0.0821		CNA	0.0812	mg/L		

ZINC ICP SW846-6010B **M139.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
DUP02	Q2481640	A928639	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	ZINC	0.0200			0.0210	mg/L	105.0	
ICV01	Q2481883	PERKIN ELM	ZINC	1			1.01	mg/L	101.0	
LCCV	Q2481937	INORGANIC	ZINC	0.0200			0.0194	mg/L	97.0	
CDL01	Q2481928	PERKIN ELM	ZINC	0.040			0.0393	mg/L	98.2	
ICS-AB	Q2481905	PERKIN ELM	ZINC	1.00			0.924	mg/L	92.4	
SER01	Q2481935	A929008	ZINC	0.0835			0.0815	mg/L		2.4
CCV	Q2481924	INORGANIC	ZINC	5.00			4.87	mg/L	97.4	
BLA01	Q2481903	NA	ZINC			<	0.00800	mg/L		

ZINC ICP SW846-6010B **M139.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	ZINC	5.00			4.85	mg/L	97.0	
BLA01	Q2481904	NA	ZINC			<	0.00800	mg/L		
SER01	Q2482049	A928993	ZINC	1260			1320	mg/L		4.6
CDL01	Q2482047	INORGANIC	ZINC	0.0200			0.0189	mg/L	94.5	
ICS-AB	Q2482041	PERKIN ELM	ZINC	1.00			0.948	mg/L	94.8	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	ZINC				0.00164	mg/L		
LCS	Q2481639	SPEX	ZINC	0.5			0.524	mg/L	104.8	
DUP02	Q2481640	A928639	ZINC	0		BDL		mg/L		
SPI02	Q2481641	A928639	ZINC	0	0.500		0.498	mg/L	99.6	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	ZINC				0.00146	mg/L		
LCS	Q2482842	SPEX	ZINC	0.5			0.518	mg/L	103.6	
DUP02	Q2482843	A929121	ZINC	0		BDL		mg/L		
SPI02	Q2482844	A929121	ZINC	0	0.500		0.508	mg/L	101.6	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	ZINC	0.0200			0.0205	mg/L	102.5	
ICV01	Q2483675	PERKIN ELM	ZINC	1			1.02	mg/L	102.0	
CDL01	Q2483670	INORGANIC	ZINC	10			10.0	mg/L	100.0	

ZINC ICP SW846-6010B **M139.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICS-AB	Q2483657	PERKIN ELM	ZINC	1.00			0.959	mg/L	95.9	
LCCV	Q2483678	INORGANIC	ZINC	0.0200			0.0192	mg/L	96.0	
SER01	Q2483673	A929233	ZINC	0		BDL		mg/L		
CCV	Q2483664	INORGANIC	ZINC	5.00			5.04	mg/L	100.8	
BLA01	Q2483654	NA	ZINC			<	0.00800	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	ZINC	5.00			5.02	mg/L	100.4	
BLA01	Q2483655	NA	ZINC			<	0.00800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	ZINC	5.00			5.29	mg/L	105.8	
BLA01	Q2483656	NA	ZINC			<	0.00800	mg/L		
SER01	Q2483672	A929081	ZINC	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	ZINC	0.0200			0.0255	mg/L	127.5	
ICS-AB	Q2483729	PERKIN ELM	ZINC	1.00			1.15	mg/L	115.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

CYANIDE, TOTAL (AUTOMATED) SW846-9012B **G101.4**
Prep : CYANIDE DISTILLATION SW846-9012B

R586747 Analyst: E SOTKIEWICZ Run Date: 24-Sep-11 Instrument: AUTO-ANALYZER
Analytical Reviewer: P SPENCE Review Date: 27-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CDL01	Q2482760		CYANIDE	0.005			0.0066	mg/L	132.0	
ICV01	Q2482761		CYANIDE	0.150			0.140	mg/L	93.3	
BLA02	Q2482762		CYANIDE			BDL	0.005	mg/L		
BLA02	Q2482763		CYANIDE			BDL	0.005	mg/L		
LFB02L	Q2482766		CYANIDE	0.100			0.0994	mg/L	99.4	
LFB02L	Q2482767		CYANIDE	0.100			0.0925	mg/L	92.5	
LFB02H	Q2482770		CYANIDE	0.500			0.465	mg/L	93.0	
LFB02H	Q2482771		CYANIDE	0.500			0.496	mg/L	99.2	
CCV	Q2482778		CYANIDE	0.100			0.0938	mg/L	93.8	
BLA01	Q2482779		CYANIDE			BDL	0.005	mg/L		
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
SPI02	Q2482780	A929119	CYANIDE	0	0.250		0.228	mg/L	91.2	
DPS02	Q2482781	A929119	CYANIDE	0	0.250		0.254	mg/L	101.6	10.8
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
SPI02	Q2482782	A929121	CYANIDE	0	0.250		0.253	mg/L	101.2	
DPS02	Q2482783	A929121	CYANIDE	0	0.250		0.230	mg/L	92.0	9.5
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							

CYANIDE, TOTAL (AUTOMATED) SW846-9012B **G101.4**
Prep : CYANIDE DISTILLATION SW846-9012B

R586747 Analytical — Analyst: E SOTKIEWICZ — Reviewer: P SPENCE — Run Date: 24-Sep-11 — Review Date: 27-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCV	Q2482784		CYANIDE	0.100			0.0963	mg/L	96.3	
BLA01	Q2482785		CYANIDE			BDL	0.005	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
CCV	Q2482786		CYANIDE	0.100			0.0957	mg/L	95.7	
BLA01	Q2482787		CYANIDE			BDL	0.005	mg/L		
BLA02	Q2482794		CYANIDE			BDL	0.005	mg/L		
LFB02L	Q2482795		CYANIDE	0.100			0.0978	mg/L	97.8	
LFB02H	Q2482796		CYANIDE	0.500			0.468	mg/L	93.6	

R586791 Prep — Analyst: E SOTKIEWICZ — Reviewer: P SPENCE — Run Date: 24-Sep-11 — Review Date: 27-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482762		Analytical Run: R586747							
LFB02L	Q2482766		Analytical Run: R586747							
LFB02H	Q2482770		Analytical Run: R586747							
SAMPLE	A929118	Rep: 0	Analytical Run: R586747							
BLA02	Q2482763		Analytical Run: R586747							
LFB02L	Q2482767		Analytical Run: R586747							
LFB02H	Q2482771		Analytical Run: R586747							
SAMPLE	A929119	Rep: 0	Analytical Run: R586747							
SPI02	Q2482780	A929119	Analytical Run: R586747							
DPS02	Q2482781	A929119	Analytical Run: R586747							
SAMPLE	A929121	Rep: 0	Analytical Run: R586747							
SPI02	Q2482782	A929121	Analytical Run: R586747							
DPS02	Q2482783	A929121	Analytical Run: R586747							
SAMPLE	A929120	Rep: 0	Analytical Run: R586747							
BLA02	Q2482794		Analytical Run: R586747							
LFB02L	Q2482795		Analytical Run: R586747							
LFB02H	Q2482796		Analytical Run: R586747							

LEAD TRACE ICP SW846-6010B **M116.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: TRACE ICP

LICV01	Q2481884	PERKIN	LEAD	0.01			0.0104	mg/L	104.0	

LEAD TRACE ICP SW846-6010B **M116.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
		ELE								
ICV01	Q2481883	PERKIN ELM	LEAD	1			0.996	mg/L	99.6	
LCCV	Q2481937	INORGANIC	LEAD	0.01			0.00871	mg/L	87.1	
CDL01	Q2481928	PERKIN ELM	LEAD	0.100			0.102	mg/L	102.0	
ICS-AB	Q2481905	PERKIN ELM	LEAD	1.00			0.952	mg/L	95.2	
SER01	Q2481935	A929008	LEAD	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	LEAD	5.00			4.88	mg/L	97.6	
BLA01	Q2481903	NA	LEAD			<	0.00200	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	LEAD	5.00			4.86	mg/L	97.2	
BLA01	Q2481904	NA	LEAD			<	0.00200	mg/L		
SER01	Q2482049	A928993	LEAD	36.3			38.6	mg/L		6.1
CDL01	Q2482047	INORGANIC	LEAD	0.01			0.00830	mg/L	83.0	
ICS-AB	Q2482041	PERKIN ELM	LEAD	1.00			0.956	mg/L	95.6	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	LEAD			<	0.000400	mg/L		
LCS	Q2481639	SPEX	LEAD	0.5			0.517	mg/L	103.4	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	LEAD			<	0.00200	mg/L		

LEAD TRACE ICP SW846-6010B **M116.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586733 Analyst: J KRAMER Run Date: 24-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2481643	INORGANIC	LEAD	0.5			0.516	mg/L	103.2	
DUP02	Q2481644	A928639	LEAD	0		BDL		mg/L		
SPI02	Q2481645	A928639	LEAD	0	0.5		0.478	mg/L	95.6	

Q2482586 1:5 Dilution.
Q2482586 1:5 Dilution.

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	LEAD				0.000527	mg/L		
LCS	Q2482842	SPEX	LEAD	0.5			0.499	mg/L	99.8	
DUP02	Q2482843	A929121	LEAD	0.00117		BDL		mg/L		
SPI02	Q2482844	A929121	LEAD	0.00117	0.500		0.497	mg/L	99.2	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	LEAD	0.01			0.0114	mg/L	114.0	
ICV01	Q2483675	PERKIN ELM	LEAD	1			0.994	mg/L	99.4	
CDL01	Q2483670	INORGANIC	LEAD	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	LEAD	1.00			0.960	mg/L	96.0	
LCCV	Q2483678	INORGANIC	LEAD	0.01			0.0110	mg/L	110.0	
SER01	Q2483673	A929233	LEAD	0		CNA	0.0134	mg/L		
CCV	Q2483664	INORGANIC	LEAD	5.00			4.91	mg/L	98.2	
BLA01	Q2483654	NA	LEAD			<	0.00200	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	LEAD	5.00			4.93	mg/L	98.6	
BLA01	Q2483655	NA	LEAD			<	0.00200	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	LEAD	5.00			5.05	mg/L	101.0	
BLA01	Q2483656	NA	LEAD			<	0.00200	mg/L		
SER01	Q2483672	A929081	LEAD	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	LEAD	0.01			0.0126	mg/L	126.0	
ICS-AB	Q2483729	PERKIN ELM	LEAD	1.00			1.07	mg/L	107.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

LEAD TRACE ICP SW846-6010B **M116.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R587040 Analyst: J KRAMER Run Date: 01-Oct-11
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	LEAD			<	0.00200	mg/L		
LCS	Q2482846	INORGANIC	LEAD	0.5			0.508	mg/L	101.6	
DUP02	Q2482847	A929121	LEAD	0		BDL		mg/L		
SPI02	Q2482848	A929121	LEAD	0	0.5		0.494	mg/L	98.8	

LEAD TRACE ICP SW846-6010B **M116.0**
Prep : FIELD FILTRATION SAS

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2482549	PERKIN ELM	LEAD	1			1.00	mg/L	100.0	
SPI02	Q2479292	A928174	LEAD	0	0.5		0.488	mg/L	97.6	
DPS02	Q2479293	A928174	LEAD	0	0.5		0.478	mg/L	95.6	2.1
CDL01	Q2482578	PERKIN ELM	LEAD	0.100			0.103	mg/L	103.0	
ICS-AB	Q2482563	PERKIN ELM	LEAD	1.00			0.949	mg/L	94.9	
CCV	Q2482567	INORGANIC	LEAD	5.00			4.99	mg/L	99.8	
BLA01	Q2482553	NA	LEAD			<	0.00200	mg/L		
SER01	Q2482588	A929118	LEAD	0		BDL		mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 1							
DUP01	Q2482565	A929118	LEAD	0		BDL		mg/L		
SPI01	Q2482577	A929118	LEAD	0	0.500		0.501	mg/L	100.2	
SAMPLE	A929119		See Certificate of Analysis, Rep: 1							
SAMPLE	A929120		See Certificate of Analysis, Rep: 1							
SAMPLE	A929121		See Certificate of Analysis, Rep: 1							
CCV	Q2482568	INORGANIC	LEAD	5.00			4.98	mg/L	99.6	
BLA01	Q2482554	NA	LEAD			<	0.00200	mg/L		
SER01	Q2482586	A928923	LEAD	0		BDL		mg/L		
DUP02	Q2481253	A928923	LEAD	0		BDL		mg/L		
SPI02	Q2481254	A928923	LEAD	0	0.5		0.436	mg/L	87.2	
CDL01	Q2482579	PERKIN ELM	LEAD	0.100			0.106	mg/L	106.0	
ICS-AB	Q2482564	PERKIN ELM	LEAD	1.00			0.960	mg/L	96.0	

Q2482586 1:5 Dilution.
Q2482586 1:5 Dilution.

BARIUM ICP SW846-6010B **M104.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
DUP02	Q2481640	A928639	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							

BARIUM ICP SW846-6010B **M104.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	BARIUM	0.0100			0.0101	mg/L	101.0	
ICV01	Q2481883	PERKIN ELM	BARIUM	1			1.04	mg/L	104.0	
LCCV	Q2481937	INORGANIC	BARIUM	0.0100			0.0101	mg/L	101.0	
CDL01	Q2481929	INORGANIC	BARIUM	0.0100			0.0104	mg/L	104.0	
ICS-AB	Q2481905	PERKIN ELM	BARIUM	0.500			0.483	mg/L	96.6	
SER01	Q2481935	A929008	BARIUM	0.0323		CNA	0.0318	mg/L		
CCV	Q2481924	INORGANIC	BARIUM	5.00			5.10	mg/L	102.0	
BLA01	Q2481903	NA	BARIUM			<	0.000800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	BARIUM	5.00			5.08	mg/L	101.6	
BLA01	Q2481904	NA	BARIUM			<	0.000800	mg/L		
SER01	Q2482049	A928993	BARIUM	56.5			58.2	mg/L		3.0
CDL01	Q2482047	INORGANIC	BARIUM	0.0100			0.0103	mg/L	103.0	
ICS-AB	Q2482041	PERKIN ELM	BARIUM	0.500			0.481	mg/L	96.2	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	BARIUM			<	0.000056	mg/L		
LCS	Q2481639	SPEX	BARIUM	2			2.14	mg/L	107.0	
DUP02	Q2481640	A928639	BARIUM	0.00770			0.00678	mg/L		12.7
SPI02	Q2481641	A928639	BARIUM	0.00770	2.00		2.10	mg/L	104.6	

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							

BARIUM ICP SW846-6010B **M104.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	BARIUM				0.000146	mg/L		
LCS	Q2482842	SPEX	BARIUM	2			2.05	mg/L	102.5	
DUP02	Q2482843	A929121	BARIUM	0.529			0.552	mg/L		4.2
SPI02	Q2482844	A929121	BARIUM	0.529	2.00		2.54	mg/L	100.6	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	BARIUM	0.0100			0.0105	mg/L	105.0	
ICV01	Q2483675	PERKIN ELM	BARIUM	1			1.03	mg/L	103.0	
CDL01	Q2483670	INORGANIC	BARIUM	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	BARIUM	0.500			0.479	mg/L	95.8	
LCCV	Q2483678	INORGANIC	BARIUM	0.0100			0.0104	mg/L	104.0	
SER01	Q2483673	A929233	BARIUM	0.0352		CNA	0.0346	mg/L		
CCV	Q2483664	INORGANIC	BARIUM	5.00			5.07	mg/L	101.4	
BLA01	Q2483654	NA	BARIUM			<	0.000800	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	BARIUM	5.00			5.10	mg/L	102.0	
BLA01	Q2483655	NA	BARIUM			<	0.000800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	BARIUM	5.00			5.13	mg/L	102.6	
BLA01	Q2483656	NA	BARIUM			<	0.000800	mg/L		
SER01	Q2483672	A929081	BARIUM	0.0464		CNA	0.0452	mg/L		
CDL01	Q2483734	INORGANIC	BARIUM	0.0100			0.0114	mg/L	114.0	
ICS-AB	Q2483729	PERKIN ELM	BARIUM	0.500			0.498	mg/L	99.6	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

BERYLLIUM ICP SW846-6010B **M105.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							

BERYLLIUM ICP SW846-6010B **M105.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	BERYLLIUM	0.004			0.00382	mg/L	95.5	
ICV01	Q2481883	PERKIN ELM	BERYLLIUM	1			0.995	mg/L	99.5	
LCCV	Q2481937	INORGANIC	BERYLLIUM	0.004			0.00378	mg/L	94.5	
CDL01	Q2481928	PERKIN ELM	BERYLLIUM	0.010			0.00989	mg/L	98.9	
ICS-AB	Q2481905	PERKIN ELM	BERYLLIUM	0.500			0.554	mg/L	110.8	
SER01	Q2481935	A929008	BERYLLIUM	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	BERYLLIUM	2			2.10	mg/L	105.0	
BLA01	Q2481903	NA	BERYLLIUM			<	0.000800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	BERYLLIUM	2			2.10	mg/L	105.0	
BLA01	Q2481904	NA	BERYLLIUM			<	0.000800	mg/L		
SER01	Q2482049	A928993	BERYLLIUM	0.120		CNA	0.0528	mg/L		
CDL01	Q2482047	INORGANIC	BERYLLIUM	0.004			0.00392	mg/L	98.0	
ICS-AB	Q2482041	PERKIN ELM	BERYLLIUM	0.500			0.556	mg/L	111.2	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	BERYLLIUM			<	0.000396	mg/L		
LCS	Q2481639	SPEX	BERYLLIUM	0.05			0.0564	mg/L	112.8	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							

BERYLLIUM ICP SW846-6010B **M105.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586709 Analyst: K KAMARA Run Date: 26-Sep-11
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	BERYLLIUM			<	0.000400	mg/L		
LCS	Q2481643	INORGANIC	BERYLLIUM	0.05			0.0551	mg/L	110.2	
DUP02	Q2481644	A928639	BERYLLIUM	0		BDL		mg/L		
SPI02	Q2481645	A928639	BERYLLIUM	0	0.05		0.0521	mg/L	104.2	

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	BERYLLIUM			<	0.000396	mg/L		
LCS	Q2482842	SPEX	BERYLLIUM	0.05			0.0526	mg/L	105.2	
DUP02	Q2482843	A929121	BERYLLIUM	0		BDL		mg/L		
SPI02	Q2482844	A929121	BERYLLIUM	0	0.050		0.0524	mg/L	104.8	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	BERYLLIUM	0.004			0.00398	mg/L	99.5	
ICV01	Q2483675	PERKIN ELM	BERYLLIUM	1			0.988	mg/L	98.8	
CDL01	Q2483670	INORGANIC	BERYLLIUM	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	BERYLLIUM	0.500			0.536	mg/L	107.2	
LCCV	Q2483678	INORGANIC	BERYLLIUM	0.004			0.00390	mg/L	97.5	
SER01	Q2483673	A929233	BERYLLIUM	0		BDL		mg/L		
CCV	Q2483664	INORGANIC	BERYLLIUM	2			2.04	mg/L	102.0	
BLA01	Q2483654	NA	BERYLLIUM			<	0.000800	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	BERYLLIUM	2			2.05	mg/L	102.5	
BLA01	Q2483655	NA	BERYLLIUM			<	0.000800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	BERYLLIUM	2			2.04	mg/L	102.0	
BLA01	Q2483656	NA	BERYLLIUM			<	0.000800	mg/L		
SER01	Q2483672	A929081	BERYLLIUM	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	BERYLLIUM	0.004			0.00414	mg/L	103.5	
ICS-AB	Q2483729	PERKIN ELM	BERYLLIUM	0.500			0.537	mg/L	107.4	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na

BERYLLIUM ICP SW846-6010B **M105.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
Q2483672	as indicated by the serial dilution results.									
Q2483672	as indicated by the serial dilution results.									
Q2483673	1:5 Dilution.									
Q2483673	1:5 Dilution.									

R587040 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 01-Oct-11 — Review Date: 03-Oct-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	BERYLLIUM			<	0.000400	mg/L		
LCS	Q2482846	INORGANIC	BERYLLIUM	0.05			0.0554	mg/L	110.8	
DUP02	Q2482847	A929121	BERYLLIUM	0		BDL		mg/L		
SPI02	Q2482848	A929121	BERYLLIUM	0	0.05		0.0528	mg/L	105.6	

COBALT ICP SW846-6010B **M111.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	COBALT	0.0100			0.00988	mg/L	98.8	
ICV01	Q2481883	PERKIN ELM	COBALT	1			0.997	mg/L	99.7	
LCCV	Q2481937	INORGANIC	COBALT	0.0100			0.00970	mg/L	97.0	
CDL01	Q2481928	PERKIN ELM	COBALT	0.100			0.100	mg/L	100.0	
ICS-AB	Q2481905	PERKIN ELM	COBALT	0.500			0.464	mg/L	92.8	
SER01	Q2481935	A929008	COBALT	0.0548			0.0536	mg/L		2.2
CCV	Q2481924	INORGANIC	COBALT	5.00			4.90	mg/L	98.0	
BLA01	Q2481903	NA	COBALT			<	0.000800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	COBALT	5.00			4.88	mg/L	97.6	
BLA01	Q2481904	NA	COBALT			<	0.000800	mg/L		
SER01	Q2482049	A928993	COBALT	6.43			6.45	mg/L		0.3
CDL01	Q2482047	INORGANIC	COBALT	0.0100			0.00996	mg/L	99.6	

COBALT ICP SW846-6010B **M111.3**

Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICS-AB	Q2482041	PERKIN ELM	COBALT	0.500			0.466	mg/L	93.2	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	COBALT			<	0.000216	mg/L		
LCS	Q2481639	SPEX	COBALT	0.5			0.510	mg/L	102.0	

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 24-Sep-11 — Review Date: 26-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	COBALT			<	0.000800	mg/L		
LCS	Q2481643	INORGANIC	COBALT	0.5			0.511	mg/L	102.2	
DUP02	Q2481644	A928639	COBALT	0.00361		CNA	0.00313	mg/L		
SPI02	Q2481645	A928639	COBALT	0.00361	0.5		0.477	mg/L	94.7	

R586848 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	COBALT				0.000549	mg/L		
LCS	Q2482842	SPEX	COBALT	0.5			0.490	mg/L	98.0	
DUP02	Q2482843	A929121	COBALT	0.00450			0.00489	mg/L		8.3
SPI02	Q2482844	A929121	COBALT	0.00450	0.500		0.492	mg/L	97.5	

R586850 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD

COBALT ICP SW846-6010B **M111.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	COBALT	0.0100			0.0110	mg/L	110.0	
ICV01	Q2483675	PERKIN ELM	COBALT	1			0.980	mg/L	98.0	
CDL01	Q2483670	INORGANIC	COBALT	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	COBALT	0.500			0.464	mg/L	92.8	
LCCV	Q2483678	INORGANIC	COBALT	0.0100			0.0101	mg/L	101.0	
SER01	Q2483673	A929233	COBALT	0		CNA	0.00293	mg/L		
CCV	Q2483664	INORGANIC	COBALT	5.00			4.90	mg/L	98.0	
BLA01	Q2483654	NA	COBALT			<	0.000800	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	COBALT	5.00			4.91	mg/L	98.2	
BLA01	Q2483655	NA	COBALT			<	0.000800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	COBALT	5.00			4.98	mg/L	99.6	
BLA01	Q2483656	NA	COBALT			<	0.000800	mg/L		
SER01	Q2483672	A929081	COBALT	0		CNA	0.00263	mg/L		
CDL01	Q2483734	INORGANIC	COBALT	0.0100			0.0123	mg/L	123.0	
ICS-AB	Q2483729	PERKIN ELM	COBALT	0.500			0.500	mg/L	100.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 01-Oct-11 — Review Date: 03-Oct-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	COBALT			<	0.000800	mg/L		
LCS	Q2482846	INORGANIC	COBALT	0.5			0.500	mg/L	100.0	
DUP02	Q2482847	A929121	COBALT	0.00385		CNA	0.00398	mg/L		
SPI02	Q2482848	A929121	COBALT	0.00385	0.5		0.487	mg/L	96.6	

MANGANESE ICP SW846-6010B **M119.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							

MANGANESE ICP SW846-6010B **M119.3**

Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	MANGANESE	0.0100			0.0102	mg/L	102.0	
ICV01	Q2481883	PERKIN ELM	MANGANESE	1			1.00	mg/L	100.0	
LCCV	Q2481937	INORGANIC	MANGANESE	0.0100			0.00996	mg/L	99.6	
CDL01	Q2481928	PERKIN ELM	MANGANESE	0.030			0.0312	mg/L	104.0	
ICS-AB	Q2481905	PERKIN ELM	MANGANESE	0.500			0.488	mg/L	97.6	
SER01	Q2481935	A929008	MANGANESE	0.247			0.251	mg/L		1.6
CCV	Q2481924	INORGANIC	MANGANESE	5.00			4.93	mg/L	98.6	
BLA01	Q2481903	NA	MANGANESE			<	0.00400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	MANGANESE	5.00			4.92	mg/L	98.4	
BLA01	Q2481904	NA	MANGANESE			<	0.00400	mg/L		
SER01	Q2482049	A928993	MANGANESE	126			130	mg/L		3.1
CDL01	Q2482047	INORGANIC	MANGANESE	0.0100			0.0105	mg/L	105.0	
ICS-AB	Q2482041	PERKIN ELM	MANGANESE	0.500			0.489	mg/L	97.8	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	MANGANESE			<	0.000172	mg/L		
LCS	Q2481639	SPEX	MANGANESE	0.5			0.522	mg/L	104.4	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							

MANGANESE ICP SW846-6010B **M119.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 24-Sep-11 — Review Date: 26-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	MANGANESE			<	0.000800	mg/L		
LCS	Q2481643	INORGANIC	MANGANESE	0.5			0.504	mg/L	100.8	
DUP02	Q2481644	A928639	MANGANESE	0.299			0.291	mg/L		2.7
SPI02	Q2481645	A928639	MANGANESE	0.299	0.5		0.760	mg/L	92.2	

R586848 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	MANGANESE				0.000594	mg/L		
LCS	Q2482842	SPEX	MANGANESE	0.5			0.495	mg/L	99.0	
DUP02	Q2482843	A929121	MANGANESE	0.232			0.243	mg/L		4.6
SPI02	Q2482844	A929121	MANGANESE	0.232	0.500		0.723	mg/L	98.2	

R586850 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	MANGANESE	0.0100			0.0106	mg/L	106.0	
ICV01	Q2483675	PERKIN ELM	MANGANESE	1			1.00	mg/L	100.0	
CDL01	Q2483670	INORGANIC	MANGANESE	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	MANGANESE	0.500			0.484	mg/L	96.8	
LCCV	Q2483678	INORGANIC	MANGANESE	0.0100			0.0108	mg/L	108.0	
SER01	Q2483673	A929233	MANGANESE	0.0822			0.0840	mg/L		2.2
CCV	Q2483664	INORGANIC	MANGANESE	5.00			4.90	mg/L	98.0	
BLA01	Q2483654	NA	MANGANESE			<	0.00400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	MANGANESE	5.00			4.92	mg/L	98.4	
BLA01	Q2483655	NA	MANGANESE			<	0.00400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	MANGANESE	5.00			4.94	mg/L	98.8	
BLA01	Q2483656	NA	MANGANESE			<	0.00400	mg/L		
SER01	Q2483672	A929081	MANGANESE	0.521			0.514	mg/L		1.4
CDL01	Q2483734	INORGANIC	MANGANESE	0.0100			0.0120	mg/L	120.0	
ICS-AB	Q2483729	PERKIN ELM	MANGANESE	0.500			0.499	mg/L	99.8	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na

MANGANESE ICP SW846-6010B **M119.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
Q2483672	as indicated by the serial dilution results.									
Q2483672	as indicated by the serial dilution results.									
Q2483673	1:5 Dilution.									
Q2483673	1:5 Dilution.									

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	MANGANESE			<	0.000800	mg/L		
LCS	Q2482846	INORGANIC	MANGANESE	0.5			0.503	mg/L	100.6	
DUP02	Q2482847	A929121	MANGANESE	0.241			0.244	mg/L		1.2
SPI02	Q2482848	A929121	MANGANESE	0.241	0.5		0.713	mg/L	94.4	

NICKEL ICP SW846-6010B **M122.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
DUP02	Q2481640	A928639	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	NICKEL	0.005			0.00506	mg/L	101.2	
ICV01	Q2481883	PERKIN ELM	NICKEL	1			0.999	mg/L	99.9	
LCCV	Q2481937	INORGANIC	NICKEL	0.005			0.00503	mg/L	100.6	
CDL01	Q2481928	PERKIN ELM	NICKEL	0.080			0.0816	mg/L	102.0	
ICS-AB	Q2481905	PERKIN ELM	NICKEL	1.00			0.924	mg/L	92.4	
SER01	Q2481935	A929008	NICKEL	0.0551		CNA	0.0532	mg/L		
CCV	Q2481924	INORGANIC	NICKEL	5.00			4.92	mg/L	98.4	
BLA01	Q2481903	NA	NICKEL			<	0.00200	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	NICKEL	5.00			4.90	mg/L	98.0	
BLA01	Q2481904	NA	NICKEL			<	0.00200	mg/L		
SER01	Q2482049	A928993	NICKEL	71.5			73.6	mg/L		2.9
CDL01	Q2482047	INORGANIC	NICKEL	0.005			0.00513	mg/L	102.6	
ICS-AB	Q2482041	PERKIN ELM	NICKEL	1.00			0.926	mg/L	92.6	

NICKEL ICP SW846-6010B **M122.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
Q2481935	1:5 Dilution.									
Q2481935	1:5 Dilution.									
Q2482049	1:500 Dilution.									
Q2482049	1:500 Dilution.									

R586671 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	NICKEL			<	0.000360	mg/L		
LCS	Q2481639	SPEX	NICKEL	0.5			0.524	mg/L	104.8	
DUP02	Q2481640	A928639	NICKEL	0.00392		CNA	0.00371	mg/L		
SPI02	Q2481641	A928639	NICKEL	0.00392	0.500		0.503	mg/L	99.8	

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							

R586848 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	NICKEL			<	0.000360	mg/L		
LCS	Q2482842	SPEX	NICKEL	0.5			0.504	mg/L	100.8	
DUP02	Q2482843	A929121	NICKEL	0.00642			0.00677	mg/L		5.3
SPI02	Q2482844	A929121	NICKEL	0.00642	0.500		0.503	mg/L	99.3	

R586850 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	NICKEL	0.005			0.00518	mg/L	103.6	
ICV01	Q2483675	PERKIN ELM	NICKEL	1			1.00	mg/L	100.0	
CDL01	Q2483670	INORGANIC	NICKEL	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	NICKEL	1.00			0.923	mg/L	92.3	
LCCV	Q2483678	INORGANIC	NICKEL	0.005			0.00562	mg/L	112.4	
SER01	Q2483673	A929233	NICKEL	0.0124		CNA	0.0189	mg/L		
CCV	Q2483664	INORGANIC	NICKEL	5.00			4.95	mg/L	99.0	
BLA01	Q2483654	NA	NICKEL			<	0.00200	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	NICKEL	5.00			4.96	mg/L	99.2	

NICKEL ICP SW846-6010B **M122.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA01	Q2483655	NA	NICKEL			<	0.00200	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	NICKEL	5.00			5.05	mg/L	101.0	
BLA01	Q2483656	NA	NICKEL			<	0.00200	mg/L		
SER01	Q2483672	A929081	NICKEL	0.00629		CNA	0.00773	mg/L		
CDL01	Q2483734	INORGANIC	NICKEL	0.005			0.00611	mg/L	122.2	
ICS-AB	Q2483729	PERKIN ELM	NICKEL	1.00			1.00	mg/L	100.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

VANADIUM ICP SW846-6010B **M138.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	VANADIUM	0.0100			0.0101	mg/L	101.0	
ICV01	Q2481883	PERKIN ELM	VANADIUM	1			1.01	mg/L	101.0	
LCCV	Q2481937	INORGANIC	VANADIUM	0.0100			0.0101	mg/L	101.0	
CDL01	Q2481928	PERKIN ELM	VANADIUM	0.100			0.101	mg/L	101.0	
ICS-AB	Q2481905	PERKIN ELM	VANADIUM	0.500			0.506	mg/L	101.2	
SER01	Q2481935	A929008	VANADIUM	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	VANADIUM	2			2.01	mg/L	100.5	
BLA01	Q2481903	NA	VANADIUM			<	0.000800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	VANADIUM	2			2.01	mg/L	100.5	

VANADIUM ICP SW846-6010B **M138.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analytical — Analyst: J KRAMER, Reviewer: S ENDERSEN — Run Date: 22-Sep-11, Review Date: 23-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA01	Q2481904	NA	VANADIUM			<	0.000800	mg/L		
SER01	Q2482049	A928993	VANADIUM	5.36			5.41	mg/L		0.9
CDL01	Q2482047	INORGANIC	VANADIUM	0.0100			0.00966	mg/L	96.6	
ICS-AB	Q2482041	PERKIN ELM	VANADIUM	0.500			0.508	mg/L	101.6	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analytical — Analyst: J KRAMER, Reviewer: S ENDERSEN — Run Date: 22-Sep-11, Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	VANADIUM			<	0.000480	mg/L		
LCS	Q2481639	SPEX	VANADIUM	0.5			0.536	mg/L	107.2	

R586709 Prep — Analyst: K KAMARA, Reviewer: S ENDERSEN — Run Date: 26-Sep-11, Review Date: 26-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analytical — Analyst: J KRAMER, Reviewer: S ENDERSEN — Run Date: 24-Sep-11, Review Date: 26-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	VANADIUM			<	0.000800	mg/L		
LCS	Q2481643	INORGANIC	VANADIUM	0.5			0.532	mg/L	106.4	
DUP02	Q2481644	A928639	VANADIUM	0		BDL		mg/L		
SPI02	Q2481645	A928639	VANADIUM	0	0.5		0.506	mg/L	101.2	

R586848 Analytical — Analyst: J KRAMER, Reviewer: S ENDERSEN — Run Date: 27-Sep-11, Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	VANADIUM				0.000748	mg/L		
LCS	Q2482842	SPEX	VANADIUM	0.5			0.509	mg/L	101.8	
DUP02	Q2482843	A929121	VANADIUM	0.00130		BDL		mg/L		
SPI02	Q2482844	A929121	VANADIUM	0.00130	0.500		0.511	mg/L	101.9	

VANADIUM ICP SW846-6010B **M138.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	VANADIUM	0.0100			0.0105	mg/L	105.0	
ICV01	Q2483675	PERKIN ELM	VANADIUM	1			1.01	mg/L	101.0	
CDL01	Q2483670	INORGANIC	VANADIUM	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	VANADIUM	0.500			0.500	mg/L	100.0	
LCCV	Q2483678	INORGANIC	VANADIUM	0.0100			0.0102	mg/L	102.0	
SER01	Q2483673	A929233	VANADIUM	0.00564		CNA	0.00874	mg/L		
CCV	Q2483664	INORGANIC	VANADIUM	2			2.03	mg/L	101.5	
BLA01	Q2483654	NA	VANADIUM			<	0.000800	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	VANADIUM	2			2.03	mg/L	101.5	
BLA01	Q2483655	NA	VANADIUM			<	0.000800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	VANADIUM	2			2.03	mg/L	101.5	
BLA01	Q2483656	NA	VANADIUM			<	0.000800	mg/L		
SER01	Q2483672	A929081	VANADIUM	0		CNA	0.00798	mg/L		
CDL01	Q2483734	INORGANIC	VANADIUM	0.0100			0.0114	mg/L	114.0	
ICS-AB	Q2483729	PERKIN ELM	VANADIUM	0.500			0.508	mg/L	101.6	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	VANADIUM			<	0.000800	mg/L		
LCS	Q2482846	INORGANIC	VANADIUM	0.5			0.516	mg/L	103.2	
DUP02	Q2482847	A929121	VANADIUM	0		BDL		mg/L		
SPI02	Q2482848	A929121	VANADIUM	0	0.5		0.513	mg/L	102.6	

CYANIDE, TOTAL (AUTOMATED) SW846-9012B **G101.4**
Prep : CYANIDE DISTILLATION SW846-9012B

R586747 Analyst: E SOTKIEWICZ Run Date: 24-Sep-11 Instrument: AUTO-ANALYZER
Analytical Reviewer: P SPENCE Review Date: 27-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CDL01	Q2482760		CYANIDE	0.005			0.0066	mg/L	132.0	
ICV01	Q2482761		CYANIDE	0.150			0.140	mg/L	93.3	
BLA02	Q2482762		CYANIDE			BDL	0.005	mg/L		
BLA02	Q2482763		CYANIDE			BDL	0.005	mg/L		
LFB02L	Q2482766		CYANIDE	0.100			0.0994	mg/L	99.4	

CYANIDE, TOTAL (AUTOMATED) SW846-9012B **G101.4**
Prep : CYANIDE DISTILLATION SW846-9012B

R586747 Analytical — Analyst: E SOTKIEWICZ — Reviewer: P SPENCE — Run Date: 24-Sep-11 — Review Date: 27-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LFB02L	Q2482767		CYANIDE	0.100			0.0925	mg/L	92.5	
LFB02H	Q2482770		CYANIDE	0.500			0.465	mg/L	93.0	
LFB02H	Q2482771		CYANIDE	0.500			0.496	mg/L	99.2	
CCV	Q2482778		CYANIDE	0.100			0.0938	mg/L	93.8	
BLA01	Q2482779		CYANIDE			BDL	0.005	mg/L		
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
SPI02	Q2482780	A929119	CYANIDE	0	0.250		0.228	mg/L	91.2	
DPS02	Q2482781	A929119	CYANIDE	0	0.250		0.254	mg/L	101.6	10.8
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
SPI02	Q2482782	A929121	CYANIDE	0	0.250		0.253	mg/L	101.2	
DPS02	Q2482783	A929121	CYANIDE	0	0.250		0.230	mg/L	92.0	9.5
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2482784		CYANIDE	0.100			0.0963	mg/L	96.3	
BLA01	Q2482785		CYANIDE			BDL	0.005	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
CCV	Q2482786		CYANIDE	0.100			0.0957	mg/L	95.7	
BLA01	Q2482787		CYANIDE			BDL	0.005	mg/L		
BLA02	Q2482794		CYANIDE			BDL	0.005	mg/L		
LFB02L	Q2482795		CYANIDE	0.100			0.0978	mg/L	97.8	
LFB02H	Q2482796		CYANIDE	0.500			0.468	mg/L	93.6	

R586791 Prep — Analyst: E SOTKIEWICZ — Reviewer: P SPENCE — Run Date: 24-Sep-11 — Review Date: 27-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482762		Analytical Run: R586747							
LFB02L	Q2482766		Analytical Run: R586747							
LFB02H	Q2482770		Analytical Run: R586747							
SAMPLE	A929118	Rep: 0	Analytical Run: R586747							
BLA02	Q2482763		Analytical Run: R586747							
LFB02L	Q2482767		Analytical Run: R586747							
LFB02H	Q2482771		Analytical Run: R586747							
SAMPLE	A929119	Rep: 0	Analytical Run: R586747							
SPI02	Q2482780	A929119	Analytical Run: R586747							
DPS02	Q2482781	A929119	Analytical Run: R586747							
SAMPLE	A929121	Rep: 0	Analytical Run: R586747							
SPI02	Q2482782	A929121	Analytical Run: R586747							
DPS02	Q2482783	A929121	Analytical Run: R586747							
SAMPLE	A929120	Rep: 0	Analytical Run: R586747							
BLA02	Q2482794		Analytical Run: R586747							
LFB02L	Q2482795		Analytical Run: R586747							
LFB02H	Q2482796		Analytical Run: R586747							

ARSENIC TRACE ICP SW846-6010B **M103.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586733							
SAMPLE	A929119	Rep: 0	Analytical Run: R586733							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	ARSENIC				0.00521	mg/L		
LCS	Q2481639	SPEX	ARSENIC	2			2.22	mg/L	111.0	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R587040							
SAMPLE	A929121	Rep: 0	Analytical Run: R587040							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2482549	PERKIN ELM	ARSENIC	1			1.01	mg/L	101.0	
CDL01	Q2482578	PERKIN ELM	ARSENIC	0.02			0.0193	mg/L	96.5	
ICS-AB	Q2482563	PERKIN ELM	ARSENIC	0.1			0.106	mg/L	106.0	
CCV	Q2482569	INORGANIC	ARSENIC	2			2.03	mg/L	101.5	
BLA01	Q2482555	NA	ARSENIC			<	0.00200	mg/L		
BLA02	Q2481642	NA	ARSENIC			<	0.00200	mg/L		
LCS	Q2481643	INORGANIC	ARSENIC	2			2.16	mg/L	108.0	
SER01	Q2482585	A928639	ARSENIC	0		CNA	0.00878	mg/L		
DUP02	Q2481644	A928639	ARSENIC	0		BDL		mg/L		
SPI02	Q2481645	A928639	ARSENIC	0	2		2.14	mg/L	107.0	
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							

ARSENIC TRACE ICP SW846-6010B **M103.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586733 Analyst: J KRAMER Run Date: 24-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCV	Q2482570	INORGANIC	ARSENIC	2			2.01	mg/L	100.5	
BLA01	Q2482556	NA	ARSENIC				0.00228	mg/L		
SER01	Q2482587	A928993	ARSENIC	4.38		CNA	4.98	mg/kg		
CDL01	Q2482579	PERKIN ELM	ARSENIC	0.02			0.0204	mg/L	102.0	
ICS-AB	Q2482564	PERKIN ELM	ARSENIC	0.1			0.107	mg/L	107.0	

Q2482585 1:5 Dilution.
Q2482585 1:5 Dilution.

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	ARSENIC			<	0.000960	mg/L		
LCS	Q2482842	SPEX	ARSENIC	2			2.12	mg/L	106.0	
DUP02	Q2482843	A929121	ARSENIC	0.0306			0.0293	mg/L		4.3
SPI02	Q2482844	A929121	ARSENIC	0.0306	2		2.15	mg/L	106.0	

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2485331	INORGANIC	ARSENIC	0.005			0.00414	mg/L	82.8	
ICV01	Q2485330	PERKIN ELM	ARSENIC	1			1.00	mg/L	100.0	
CDL01	Q2485326	INORGANIC	ARSENIC	10			10.1	mg/L	101.0	
ICS-AB	Q2485321	PERKIN ELM	ARSENIC	0.1			0.105	mg/L	105.0	
LCCV	Q2485332	INORGANIC	ARSENIC	0.005			0.00471	mg/L	94.2	
CCV	Q2485345	INORGANIC	ARSENIC	2			2.07	mg/L	103.5	
BLA01	Q2485338	NA	ARSENIC			<	0.00200	mg/L		
BLA02	Q2482845	NA	ARSENIC			<	0.00200	mg/L		
LCS	Q2482846	INORGANIC	ARSENIC	2			2.12	mg/L	106.0	
SER01	Q2485352	A929121	ARSENIC	0.0302		CNA	0.0328	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
DUP02	Q2482847	A929121	ARSENIC	0.0302			0.0305	mg/L		1.0
SPI02	Q2482848	A929121	ARSENIC	0.0302	2		2.11	mg/L	104.0	
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2485346	INORGANIC	ARSENIC	2			2.08	mg/L	104.0	
BLA01	Q2485339	NA	ARSENIC			<	0.00200	mg/L		
CDL01	Q2485368	INORGANIC	ARSENIC	0.005			0.00390	mg/L	78.0	
ICS-AB	Q2485364	PERKIN ELM	ARSENIC	0.1			0.117	mg/L	117.0	

SELENIUM TRACE ICP SW846-6010B **M128.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586733							
SAMPLE	A929119	Rep: 0	Analytical Run: R586733							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586671 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	SELENIUM				0.00608	mg/L		
LCS	Q2481639	SPEX	SELENIUM	2			2.18	mg/L	109.0	

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R587040							
SAMPLE	A929121	Rep: 0	Analytical Run: R587040							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 24-Sep-11 — Review Date: 26-Sep-11 — Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2482549	PERKIN ELM	SELENIUM	1			0.996	mg/L	99.6	
CDL01	Q2482578	PERKIN ELM	SELENIUM	0.01			0.00621	mg/L	62.1	
ICS-AB	Q2482563	PERKIN ELM	SELENIUM	0.05			0.0565	mg/L	113.0	
CCV	Q2482569	INORGANIC	SELENIUM	2			2.01	mg/L	100.5	
BLA01	Q2482555	NA	SELENIUM			<	0.00200	mg/L		
BLA02	Q2481642	NA	SELENIUM			<	0.00200	mg/L		
LCS	Q2481643	INORGANIC	SELENIUM	2			2.16	mg/L	108.0	
SER01	Q2482585	A928639	SELENIUM	0		BDL		mg/L		
DUP02	Q2481644	A928639	SELENIUM	0		BDL		mg/L		
SPI02	Q2481645	A928639	SELENIUM	0	2		2.14	mg/L	107.0	
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							

SELENIUM TRACE ICP SW846-6010B **M128.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586733 Analyst: J KRAMER Run Date: 24-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCV	Q2482570	INORGANIC	SELENIUM	2			1.99	mg/L	99.5	
BLA01	Q2482556	NA	SELENIUM			<	0.00200	mg/L		
SER01	Q2482587	A928993	SELENIUM	4.37		CNA	4.32	mg/kg		
CDL01	Q2482579	PERKIN ELM	SELENIUM	0.01			0.00769	mg/L	76.9	
ICS-AB	Q2482564	PERKIN ELM	SELENIUM	0.05			0.0564	mg/L	112.8	

Q2482585 1:5 Dilution.
Q2482585 1:5 Dilution.

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	SELENIUM				0.00284	mg/L		
LCS	Q2482842	SPEX	SELENIUM	2			2.10	mg/L	105.0	
DUP02	Q2482843	A929121	SELENIUM	0		BDL		mg/L		
SPI02	Q2482844	A929121	SELENIUM	0	2		2.13	mg/L	106.5	

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2485331	INORGANIC	SELENIUM	0.005			0.00391	mg/L	78.2	
ICV01	Q2485330	PERKIN ELM	SELENIUM	1			0.994	mg/L	99.4	
CDL01	Q2485326	INORGANIC	SELENIUM	10			10.1	mg/L	101.0	
ICS-AB	Q2485321	PERKIN ELM	SELENIUM	0.05			0.0573	mg/L	114.6	
LCCV	Q2485332	INORGANIC	SELENIUM	0.005			0.00465	mg/L	93.0	
CCV	Q2485345	INORGANIC	SELENIUM	2			2.05	mg/L	102.5	
BLA01	Q2485338	NA	SELENIUM			<	0.00200	mg/L		
BLA02	Q2482845	NA	SELENIUM			<	0.00200	mg/L		
LCS	Q2482846	INORGANIC	SELENIUM	2			2.13	mg/L	106.5	
SER01	Q2485352	A929121	SELENIUM	0		CNA	0.00752	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
DUP02	Q2482847	A929121	SELENIUM	0		BDL		mg/L		
SPI02	Q2482848	A929121	SELENIUM	0	2		2.08	mg/L	104.0	
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2485346	INORGANIC	SELENIUM	2			2.06	mg/L	103.0	
BLA01	Q2485339	NA	SELENIUM			<	0.00200	mg/L		
CDL01	Q2485368	INORGANIC	SELENIUM	0.005			0.00644	mg/L	128.8	
ICS-AB	Q2485364	PERKIN ELM	SELENIUM	0.05			0.0524	mg/L	104.8	

THALLIUM TRACE ICP SW846-6010B **M134.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586733							
SAMPLE	A929119	Rep: 0	Analytical Run: R586733							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586671 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	THALLIUM			<	0.00128	mg/L		
LCS	Q2481639	SPEX	THALLIUM	3			2.97	mg/L	99.0	

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R587040							
SAMPLE	A929121	Rep: 0	Analytical Run: R587040							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 24-Sep-11 — Review Date: 26-Sep-11 — Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2482550	INORGANIC	THALLIUM	0.01			0.0111	mg/L	111.0	
ICV01	Q2482549	PERKIN ELM	THALLIUM	1			0.998	mg/L	99.8	
LCCV	Q2482551	INORGANIC	THALLIUM	0.01			0.0120	mg/L	120.0	
CDL01	Q2482578	PERKIN ELM	THALLIUM	0.02			0.0223	mg/L	111.5	
ICS-AB	Q2482563	PERKIN ELM	THALLIUM	0.1			0.0914	mg/L	91.4	
CCV	Q2482569	INORGANIC	THALLIUM	2			1.96	mg/L	98.0	
BLA01	Q2482555	NA	THALLIUM			<	0.00400	mg/L		
BLA02	Q2481642	NA	THALLIUM			<	0.00400	mg/L		
LCS	Q2481643	INORGANIC	THALLIUM	3			3.09	mg/L	103.0	
SER01	Q2482585	A928639	THALLIUM	0		CNA	0.0149	mg/L		
DUP02	Q2481644	A928639	THALLIUM	0		BDL		mg/L		
SPI02	Q2481645	A928639	THALLIUM	0	3		2.79	mg/L	93.0	

THALLIUM TRACE ICP SW846-6010B **M134.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586733 Analyst: J KRAMER Run Date: 24-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2482570	INORGANIC	THALLIUM	2			1.94	mg/L	97.0	
BLA01	Q2482556	NA	THALLIUM			<	0.00400	mg/L		
SER01	Q2482587	A928993	THALLIUM	0		CNA	1.73	mg/kg		
CDL01	Q2482581	INORGANIC	THALLIUM	0.01			0.0112	mg/L	112.0	
ICS-AB	Q2482564	PERKIN ELM	THALLIUM	0.1			0.0913	mg/L	91.3	

Q2482585 1:5 Dilution.
Q2482585 1:5 Dilution.

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	THALLIUM				0.00267	mg/L		
LCS	Q2482842	SPEX	THALLIUM	3			2.94	mg/L	98.0	
DUP02	Q2482843	A929121	THALLIUM	0		BDL		mg/L		
SPI02	Q2482844	A929121	THALLIUM	0	3		2.93	mg/L	97.7	

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2485331	INORGANIC	THALLIUM	0.01			0.0104	mg/L	104.0	
ICV01	Q2485330	PERKIN ELM	THALLIUM	1			1.00	mg/L	100.0	
CDL01	Q2485326	INORGANIC	THALLIUM	10			10.1	mg/L	101.0	
ICS-AB	Q2485321	PERKIN ELM	THALLIUM	0.1			0.0925	mg/L	92.5	
LCCV	Q2485357	INORGANIC	THALLIUM	0.01			0.00976	mg/L	97.6	
CCV	Q2485345	INORGANIC	THALLIUM	2			2.02	mg/L	101.0	
BLA01	Q2485338	NA	THALLIUM			<	0.00400	mg/L		
BLA02	Q2482845	NA	THALLIUM			<	0.00400	mg/L		
LCS	Q2482846	INORGANIC	THALLIUM	3			3.09	mg/L	103.0	
SER01	Q2485352	A929121	THALLIUM	0		CNA	0.0124	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
DUP02	Q2482847	A929121	THALLIUM	0		BDL		mg/L		
SPI02	Q2482848	A929121	THALLIUM	0	3		2.97	mg/L	99.0	
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2485346	INORGANIC	THALLIUM	2			2.04	mg/L	102.0	
BLA01	Q2485339	NA	THALLIUM			<	0.00400	mg/L		
CDL01	Q2485368	INORGANIC	THALLIUM	0.01			0.0108	mg/L	108.0	
ICS-AB	Q2485364	PERKIN ELM	THALLIUM	0.1			0.0923	mg/L	92.3	

IRON ICP SW846-6010B **M115.3**

Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
DUP02	Q2481644	A928639	Analytical Run: R586733							

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	IRON	0.02			0.0170	mg/L	85.0	
ICV01	Q2481883	PERKIN ELM	IRON	1			0.998	mg/L	99.8	
CDL01	Q2481929	INORGANIC	IRON	0.02			0.0190	mg/L	95.0	
ICS-A	Q2481931	PERKIN-ELM	IRON	200			191	mg/L	95.5	
ICS-AB	Q2481905	PERKIN ELM	IRON	200			191	mg/L	95.5	
SER01	Q2481935	A929008	IRON	2.73			2.80	mg/L		2.5
CCV	Q2481924	INORGANIC	IRON	5.00			4.84	mg/L	96.8	
BLA01	Q2481903	NA	IRON			<	0.00800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	IRON	5.00			4.82	mg/L	96.4	
BLA01	Q2481904	NA	IRON			<	0.00800	mg/L		
SER01	Q2482049	A928993	IRON	5110			5330	mg/L		4.2
CDL01	Q2482047	INORGANIC	IRON	0.02			0.0190	mg/L	95.0	
ICS-A	Q2482048	PERKIN-ELM	IRON	200			192	mg/L	96.0	
ICS-AB	Q2482041	PERKIN ELM	IRON	200			191	mg/L	95.5	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	IRON			<	0.00124	mg/L		
LCS	Q2481639	SPEX	IRON	1			1.03	mg/L	103.0	
SPI02	Q2481641	A928639	IRON	8.14	1.00	NQR	8.85	mg/L		

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							

IRON ICP SW846-6010B **M115.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
DUP02	Q2482847	A929121	Analytical Run: R587040							

R586733 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 24-Sep-11 — Review Date: 26-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2481644	A928639	IRON	7.85			7.65	mg/L		2.6

R586848 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	IRON				0.00765	mg/L		
LCS	Q2482842	SPEX	IRON	1			0.985	mg/L	98.5	
DUP02	Q2482843	A929121	IRON	4.54			4.74	mg/L		4.3
SPI02	Q2482844	A929121	IRON	4.54	1.00		5.44	mg/L	90.0	

R586850 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	IRON	0.02			0.0206	mg/L	103.0	
ICV01	Q2483675	PERKIN ELM	IRON	1			0.995	mg/L	99.5	
CDL01	Q2483670	INORGANIC	IRON	10			10.0	mg/L	100.0	
ICS-A	Q2483671	PERKIN-ELM	IRON	200			192	mg/L	96.0	
ICS-AB	Q2483657	PERKIN ELM	IRON	200			190	mg/L	95.0	
LCCV	Q2483678	INORGANIC	IRON	0.02			0.0204	mg/L	102.0	
SER01	Q2483673	A929233	IRON	1.85			1.82	mg/L		1.6
CCV	Q2483664	INORGANIC	IRON	5.00			4.84	mg/L	96.8	
BLA01	Q2483654	NA	IRON			<	0.00800	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	IRON	5.00			4.86	mg/L	97.2	
BLA01	Q2483655	NA	IRON			<	0.00800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	IRON	5.00			4.89	mg/L	97.8	
BLA01	Q2483656	NA	IRON			<	0.00800	mg/L		
SER01	Q2483672	A929081	IRON	1.31			1.27	mg/L		3.1
CDL01	Q2483734	INORGANIC	IRON	0.02			0.0237	mg/L	118.5	
ICS-A	Q2483735	PERKIN-ELM	IRON	200			197	mg/L	98.5	
ICS-AB	Q2483729	PERKIN ELM	IRON	200			197	mg/L	98.5	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.

IRON ICP SW846-6010B **M115.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
Q2483672	There was possible matrix interference for K and Na									
Q2483672	There was possible matrix interference for K and Na									
Q2483672	as indicated by the serial dilution results.									
Q2483672	as indicated by the serial dilution results.									
Q2483673	1:5 Dilution.									
Q2483673	1:5 Dilution.									

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2482847	A929121	IRON	4.69			4.75	mg/L		1.3

CADMIUM ICP SW846-6010B **M108.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	CADMIUM	0.0050			0.00474	mg/L	94.8	
ICV01	Q2481883	PERKIN ELM	CADMIUM	1			1.01	mg/L	101.0	
LCCV	Q2481937	INORGANIC	CADMIUM	0.0050			0.00451	mg/L	90.2	
CDL01	Q2481928	PERKIN ELM	CADMIUM	0.010			0.00941	mg/L	94.1	
ICS-AB	Q2481905	PERKIN ELM	CADMIUM	1.00			1.06	mg/L	106.0	
SER01	Q2481935	A929008	CADMIUM	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	CADMIUM	5.00			5.10	mg/L	102.0	
BLA01	Q2481903	NA	CADMIUM			<	0.000400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	CADMIUM	5.00			5.09	mg/L	101.8	
BLA01	Q2481904	NA	CADMIUM			<	0.000400	mg/L		
SER01	Q2482049	A928993	CADMIUM	2.40		CNA	2.22	mg/L		
CDL01	Q2482047	INORGANIC	CADMIUM	0.0050			0.00447	mg/L	89.4	
ICS-AB	Q2482041	PERKIN ELM	CADMIUM	1.00			1.08	mg/L	108.0	

CADMIUM ICP SW846-6010B **M108.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
Q2481935	1:5 Dilution.									
Q2481935	1:5 Dilution.									
Q2482049	1:500 Dilution.									
Q2482049	1:500 Dilution.									

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	CADMIUM			<	0.000064	mg/L		
LCS	Q2481639	SPEX	CADMIUM	0.05			0.0540	mg/L	108.0	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	CADMIUM			<	0.000400	mg/L		
DUP02	Q2481644	A928639	CADMIUM	0		BDL		mg/L		
SPI02	Q2481645	A928639	CADMIUM	0	0.05		0.0589	mg/L	117.8	

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	CADMIUM			<	0.000064	mg/L		
LCS	Q2482842	SPEX	CADMIUM	0.05			0.0538	mg/L	107.6	
DUP02	Q2482843	A929121	CADMIUM	0		CNA	0.000243	mg/L		
SPI02	Q2482844	A929121	CADMIUM	0	0.050		0.0535	mg/L	107.0	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	CADMIUM	0.0050			0.00499	mg/L	99.8	
ICV01	Q2483675	PERKIN ELM	CADMIUM	1			0.996	mg/L	99.6	

CADMIUM ICP SW846-6010B **M108.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CDL01	Q2483670	INORGANIC	CADMIUM	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	CADMIUM	1.00			1.07	mg/L	107.0	
LCCV	Q2483678	INORGANIC	CADMIUM	0.0050			0.00495	mg/L	99.0	
SER01	Q2483673	A929233	CADMIUM	0		BDL		mg/L		
CCV	Q2483664	INORGANIC	CADMIUM	5.00			5.17	mg/L	103.4	
BLA01	Q2483654	NA	CADMIUM			<	0.000400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	CADMIUM	5.00			5.16	mg/L	103.2	
BLA01	Q2483655	NA	CADMIUM			<	0.000400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	CADMIUM	5.00			5.21	mg/L	104.2	
BLA01	Q2483656	NA	CADMIUM			<	0.000400	mg/L		
SER01	Q2483672	A929081	CADMIUM	0		CNA	0.00205	mg/L		
CDL01	Q2483734	INORGANIC	CADMIUM	0.0050			0.00535	mg/L	107.0	
ICS-AB	Q2483729	PERKIN ELM	CADMIUM	1.00			1.12	mg/L	112.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	CADMIUM			<	0.000400	mg/L		
DUP02	Q2482847	A929121	CADMIUM	0		BDL		mg/L		
SPI02	Q2482848	A929121	CADMIUM	0	0.05		0.0603	mg/L	120.6	

CADMIUM ICP SW846-6010B **M108.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

CADMIUM ICP SW846-6010B **M108.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	CADMIUM	0.0050			0.00474	mg/L	94.8	
ICV01	Q2481883	PERKIN ELM	CADMIUM	1			1.01	mg/L	101.0	
LCCV	Q2481937	INORGANIC	CADMIUM	0.0050			0.00451	mg/L	90.2	
CDL01	Q2481928	PERKIN ELM	CADMIUM	0.010			0.00941	mg/L	94.1	
ICS-AB	Q2481905	PERKIN ELM	CADMIUM	1.00			1.06	mg/L	106.0	
SER01	Q2481935	A929008	CADMIUM	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	CADMIUM	5.00			5.10	mg/L	102.0	
BLA01	Q2481903	NA	CADMIUM			<	0.000400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	CADMIUM	5.00			5.09	mg/L	101.8	
BLA01	Q2481904	NA	CADMIUM			<	0.000400	mg/L		
SER01	Q2482049	A928993	CADMIUM	2.40		CNA	2.22	mg/L		
CDL01	Q2482047	INORGANIC	CADMIUM	0.0050			0.00447	mg/L	89.4	
ICS-AB	Q2482041	PERKIN ELM	CADMIUM	1.00			1.08	mg/L	108.0	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	CADMIUM			<	0.000064	mg/L		
LCS	Q2481639	SPEX	CADMIUM	0.05			0.0540	mg/L	108.0	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	CADMIUM			<	0.000400	mg/L		

CADMIUM ICP SW846-6010B **M108.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586733 Analyst: J KRAMER Run Date: 24-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2481644	A928639	CADMIUM	0		BDL		mg/L		
SPI02	Q2481645	A928639	CADMIUM	0	0.05		0.0589	mg/L	117.8	

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	CADMIUM			<	0.000064	mg/L		
LCS	Q2482842	SPEX	CADMIUM	0.05			0.0538	mg/L	107.6	
DUP02	Q2482843	A929121	CADMIUM	0		CNA	0.000243	mg/L		
SPI02	Q2482844	A929121	CADMIUM	0	0.050		0.0535	mg/L	107.0	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	CADMIUM	0.0050			0.00499	mg/L	99.8	
ICV01	Q2483675	PERKIN ELM	CADMIUM	1			0.996	mg/L	99.6	
CDL01	Q2483670	INORGANIC	CADMIUM	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	CADMIUM	1.00			1.07	mg/L	107.0	
LCCV	Q2483678	INORGANIC	CADMIUM	0.0050			0.00495	mg/L	99.0	
SER01	Q2483673	A929233	CADMIUM	0		BDL		mg/L		
CCV	Q2483664	INORGANIC	CADMIUM	5.00			5.17	mg/L	103.4	
BLA01	Q2483654	NA	CADMIUM			<	0.000400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	CADMIUM	5.00			5.16	mg/L	103.2	
BLA01	Q2483655	NA	CADMIUM			<	0.000400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	CADMIUM	5.00			5.21	mg/L	104.2	
BLA01	Q2483656	NA	CADMIUM			<	0.000400	mg/L		
SER01	Q2483672	A929081	CADMIUM	0		CNA	0.00205	mg/L		
CDL01	Q2483734	INORGANIC	CADMIUM	0.0050			0.00535	mg/L	107.0	
ICS-AB	Q2483729	PERKIN ELM	CADMIUM	1.00			1.12	mg/L	112.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	CADMIUM			<	0.000400	mg/L		

CADMIUM ICP SW846-6010B **M108.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R587040 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 01-Oct-11 — Review Date: 03-Oct-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2482847	A929121	CADMIUM	0		BDL		mg/L		
SPI02	Q2482848	A929121	CADMIUM	0	0.05		0.0603	mg/L	120.6	

VANADIUM ICP SW846-6010B **M138.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	VANADIUM	0.0100			0.0101	mg/L	101.0	
ICV01	Q2481883	PERKIN ELM	VANADIUM	1			1.01	mg/L	101.0	
LCCV	Q2481937	INORGANIC	VANADIUM	0.0100			0.0101	mg/L	101.0	
CDL01	Q2481928	PERKIN ELM	VANADIUM	0.100			0.101	mg/L	101.0	
ICS-AB	Q2481905	PERKIN ELM	VANADIUM	0.500			0.506	mg/L	101.2	
SER01	Q2481935	A929008	VANADIUM	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	VANADIUM	2			2.01	mg/L	100.5	
BLA01	Q2481903	NA	VANADIUM			<	0.000800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	VANADIUM	2			2.01	mg/L	100.5	
BLA01	Q2481904	NA	VANADIUM			<	0.000800	mg/L		
SER01	Q2482049	A928993	VANADIUM	5.36			5.41	mg/L		0.9
CDL01	Q2482047	INORGANIC	VANADIUM	0.0100			0.00966	mg/L	96.6	
ICS-AB	Q2482041	PERKIN ELM	VANADIUM	0.500			0.508	mg/L	101.6	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD

VANADIUM ICP SW846-6010B **M138.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586671 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	VANADIUM			<	0.000480	mg/L		
LCS	Q2481639	SPEX	VANADIUM	0.5			0.536	mg/L	107.2	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	VANADIUM			<	0.000800	mg/L		
LCS	Q2481643	INORGANIC	VANADIUM	0.5			0.532	mg/L	106.4	
DUP02	Q2481644	A928639	VANADIUM	0		BDL		mg/L		
SPI02	Q2481645	A928639	VANADIUM	0	0.5		0.506	mg/L	101.2	

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	VANADIUM				0.000748	mg/L		
LCS	Q2482842	SPEX	VANADIUM	0.5			0.509	mg/L	101.8	
DUP02	Q2482843	A929121	VANADIUM	0.00130		BDL		mg/L		
SPI02	Q2482844	A929121	VANADIUM	0.00130	0.500		0.511	mg/L	101.9	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	VANADIUM	0.0100			0.0105	mg/L	105.0	
ICV01	Q2483675	PERKIN ELM	VANADIUM	1			1.01	mg/L	101.0	
CDL01	Q2483670	INORGANIC	VANADIUM	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	VANADIUM	0.500			0.500	mg/L	100.0	
LCCV	Q2483678	INORGANIC	VANADIUM	0.0100			0.0102	mg/L	102.0	
SER01	Q2483673	A929233	VANADIUM	0.00564		CNA	0.00874	mg/L		
CCV	Q2483664	INORGANIC	VANADIUM	2			2.03	mg/L	101.5	
BLA01	Q2483654	NA	VANADIUM			<	0.000800	mg/L		

VANADIUM ICP SW846-6010B **M138.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	VANADIUM	2			2.03	mg/L	101.5	
BLA01	Q2483655	NA	VANADIUM			<	0.000800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	VANADIUM	2			2.03	mg/L	101.5	
BLA01	Q2483656	NA	VANADIUM			<	0.000800	mg/L		
SER01	Q2483672	A929081	VANADIUM	0		CNA	0.00798	mg/L		
CDL01	Q2483734	INORGANIC	VANADIUM	0.0100			0.0114	mg/L	114.0	
ICS-AB	Q2483729	PERKIN ELM	VANADIUM	0.500			0.508	mg/L	101.6	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	VANADIUM			<	0.000800	mg/L		
LCS	Q2482846	INORGANIC	VANADIUM	0.5			0.516	mg/L	103.2	
DUP02	Q2482847	A929121	VANADIUM	0		BDL		mg/L		
SPI02	Q2482848	A929121	VANADIUM	0	0.5		0.513	mg/L	102.6	

LEAD TRACE ICP SW846-6010B **M116.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	LEAD	0.01			0.0104	mg/L	104.0	
ICV01	Q2481883	PERKIN	LEAD	1			0.996	mg/L	99.6	

LEAD TRACE ICP SW846-6010B **M116.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
		ELM								
LCCV	Q2481937	INORGANIC	LEAD	0.01			0.00871	mg/L	87.1	
CDL01	Q2481928	PERKIN ELM	LEAD	0.100			0.102	mg/L	102.0	
ICS-AB	Q2481905	PERKIN ELM	LEAD	1.00			0.952	mg/L	95.2	
SER01	Q2481935	A929008	LEAD	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	LEAD	5.00			4.88	mg/L	97.6	
BLA01	Q2481903	NA	LEAD			<	0.00200	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	LEAD	5.00			4.86	mg/L	97.2	
BLA01	Q2481904	NA	LEAD			<	0.00200	mg/L		
SER01	Q2482049	A928993	LEAD	36.3			38.6	mg/L		6.1
CDL01	Q2482047	INORGANIC	LEAD	0.01			0.00830	mg/L	83.0	
ICS-AB	Q2482041	PERKIN ELM	LEAD	1.00			0.956	mg/L	95.6	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	LEAD			<	0.000400	mg/L		
LCS	Q2481639	SPEX	LEAD	0.5			0.517	mg/L	103.4	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	LEAD			<	0.00200	mg/L		
LCS	Q2481643	INORGANIC	LEAD	0.5			0.516	mg/L	103.2	

LEAD TRACE ICP SW846-6010B **M116.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586733 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 24-Sep-11 — Review Date: 26-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2481644	A928639	LEAD	0		BDL		mg/L		
SPI02	Q2481645	A928639	LEAD	0	0.5		0.478	mg/L	95.6	

Q2482586 1:5 Dilution.
Q2482586 1:5 Dilution.

R586848 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	LEAD				0.000527	mg/L		
LCS	Q2482842	SPEX	LEAD	0.5			0.499	mg/L	99.8	
DUP02	Q2482843	A929121	LEAD	0.00117		BDL		mg/L		
SPI02	Q2482844	A929121	LEAD	0.00117	0.500		0.497	mg/L	99.2	

R586850 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	LEAD	0.01			0.0114	mg/L	114.0	
ICV01	Q2483675	PERKIN ELM	LEAD	1			0.994	mg/L	99.4	
CDL01	Q2483670	INORGANIC	LEAD	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	LEAD	1.00			0.960	mg/L	96.0	
LCCV	Q2483678	INORGANIC	LEAD	0.01			0.0110	mg/L	110.0	
SER01	Q2483673	A929233	LEAD	0		CNA	0.0134	mg/L		
CCV	Q2483664	INORGANIC	LEAD	5.00			4.91	mg/L	98.2	
BLA01	Q2483654	NA	LEAD			<	0.00200	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	LEAD	5.00			4.93	mg/L	98.6	
BLA01	Q2483655	NA	LEAD			<	0.00200	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	LEAD	5.00			5.05	mg/L	101.0	
BLA01	Q2483656	NA	LEAD			<	0.00200	mg/L		
SER01	Q2483672	A929081	LEAD	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	LEAD	0.01			0.0126	mg/L	126.0	
ICS-AB	Q2483729	PERKIN ELM	LEAD	1.00			1.07	mg/L	107.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 01-Oct-11 — Review Date: 03-Oct-11 — Instrument: TRACE ICP

BLA02	Q2482845	NA	LEAD			<	0.00200	mg/L		

LEAD TRACE ICP SW846-6010B **M116.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R587040 Analyst: J KRAMER Run Date: 01-Oct-11
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2482846	INORGANIC	LEAD	0.5			0.508	mg/L	101.6	
DUP02	Q2482847	A929121	LEAD	0		BDL		mg/L		
SPI02	Q2482848	A929121	LEAD	0	0.5		0.494	mg/L	98.8	

HEXAVALENT CHROMIUM SW846-7196A **M110.6**

R586617 Analyst: E SOTKIEWICZ Run Date: 22-Sep-11
Analytical Reviewer: P SPENCE Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CDL01	Q2481595		HEXAVALENT CHROMIUM	0.005			0.00443	mg/L	88.6	
ICV01	Q2481596		HEXAVALENT CHROMIUM	0.500			0.515	mg/L	103.0	
CCV	Q2481599		HEXAVALENT CHROMIUM	0.250			0.247	mg/L	98.8	
BLA01	Q2481600		HEXAVALENT CHROMIUM			BDL	0.01	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SPI01	Q2481601	A929118	HEXAVALENT CHROMIUM	0	0.200		0.217	mg/L	108.5	
DPS01	Q2481602	A929118	HEXAVALENT CHROMIUM	0	0.200		0.216	mg/L	108.0	0.5
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2481603		HEXAVALENT CHROMIUM	0.250			0.240	mg/L	96.0	
BLA01	Q2481604		HEXAVALENT CHROMIUM			BDL	0.01	mg/L		

BARIUM ICP SW846-6010B **M104.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
DUP02	Q2481640	A928639	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	BARIUM	0.0100			0.0101	mg/L	101.0	
ICV01	Q2481883	PERKIN ELM	BARIUM	1			1.04	mg/L	104.0	
LCCV	Q2481937	INORGANIC	BARIUM	0.0100			0.0101	mg/L	101.0	
CDL01	Q2481929	INORGANIC	BARIUM	0.0100			0.0104	mg/L	104.0	
ICS-AB	Q2481905	PERKIN ELM	BARIUM	0.500			0.483	mg/L	96.6	
SER01	Q2481935	A929008	BARIUM	0.0323		CNA	0.0318	mg/L		
CCV	Q2481924	INORGANIC	BARIUM	5.00			5.10	mg/L	102.0	

BARIUM ICP SW846-6010B **M104.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA01	Q2481903	NA	BARIUM			<	0.000800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	BARIUM	5.00			5.08	mg/L	101.6	
BLA01	Q2481904	NA	BARIUM			<	0.000800	mg/L		
SER01	Q2482049	A928993	BARIUM	56.5			58.2	mg/L		3.0
CDL01	Q2482047	INORGANIC	BARIUM	0.0100			0.0103	mg/L	103.0	
ICS-AB	Q2482041	PERKIN ELM	BARIUM	0.500			0.481	mg/L	96.2	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	BARIUM			<	0.000056	mg/L		
LCS	Q2481639	SPEX	BARIUM	2			2.14	mg/L	107.0	
DUP02	Q2481640	A928639	BARIUM	0.00770			0.00678	mg/L		12.7
SPI02	Q2481641	A928639	BARIUM	0.00770	2.00		2.10	mg/L	104.6	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	BARIUM				0.000146	mg/L		
LCS	Q2482842	SPEX	BARIUM	2			2.05	mg/L	102.5	
DUP02	Q2482843	A929121	BARIUM	0.529			0.552	mg/L		4.2
SPI02	Q2482844	A929121	BARIUM	0.529	2.00		2.54	mg/L	100.6	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	BARIUM	0.0100			0.0105	mg/L	105.0	
ICV01	Q2483675	PERKIN ELM	BARIUM	1			1.03	mg/L	103.0	

BARIUM ICP SW846-6010B **M104.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CDL01	Q2483670	INORGANIC	BARIUM	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	BARIUM	0.500			0.479	mg/L	95.8	
LCCV	Q2483678	INORGANIC	BARIUM	0.0100			0.0104	mg/L	104.0	
SER01	Q2483673	A929233	BARIUM	0.0352		CNA	0.0346	mg/L		
CCV	Q2483664	INORGANIC	BARIUM	5.00			5.07	mg/L	101.4	
BLA01	Q2483654	NA	BARIUM			<	0.000800	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	BARIUM	5.00			5.10	mg/L	102.0	
BLA01	Q2483655	NA	BARIUM			<	0.000800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	BARIUM	5.00			5.13	mg/L	102.6	
BLA01	Q2483656	NA	BARIUM			<	0.000800	mg/L		
SER01	Q2483672	A929081	BARIUM	0.0464		CNA	0.0452	mg/L		
CDL01	Q2483734	INORGANIC	BARIUM	0.0100			0.0114	mg/L	114.0	
ICS-AB	Q2483729	PERKIN ELM	BARIUM	0.500			0.498	mg/L	99.6	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

IRON ICP SW846-6010B **M115.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
DUP02	Q2481644	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	IRON	0.02			0.0170	mg/L	85.0	
ICV01	Q2481883	PERKIN ELM	IRON	1			0.998	mg/L	99.8	
CDL01	Q2481929	INORGANIC	IRON	0.02			0.0190	mg/L	95.0	
ICS-A	Q2481931	PERKIN-ELM	IRON	200			191	mg/L	95.5	
ICS-AB	Q2481905	PERKIN	IRON	200			191	mg/L	95.5	

IRON ICP SW846-6010B **M115.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
		ELM								
SER01	Q2481935	A929008	IRON	2.73			2.80	mg/L		2.5
CCV	Q2481924	INORGANIC	IRON	5.00			4.84	mg/L	96.8	
BLA01	Q2481903	NA	IRON			<	0.00800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	IRON	5.00			4.82	mg/L	96.4	
BLA01	Q2481904	NA	IRON			<	0.00800	mg/L		
SER01	Q2482049	A928993	IRON	5110			5330	mg/L		4.2
CDL01	Q2482047	INORGANIC	IRON	0.02			0.0190	mg/L	95.0	
ICS-A	Q2482048	PERKIN-ELM	IRON	200			192	mg/L	96.0	
ICS-AB	Q2482041	PERKIN ELM	IRON	200			191	mg/L	95.5	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	IRON			<	0.00124	mg/L		
LCS	Q2481639	SPEX	IRON	1			1.03	mg/L	103.0	
SPI02	Q2481641	A928639	IRON	8.14	1.00	NQR	8.85	mg/L		

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
DUP02	Q2482847	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2481644	A928639	IRON	7.85			7.65	mg/L		2.6

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	IRON				0.00765	mg/L		

IRON ICP SW846-6010B **M115.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586848 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2482842	SPEX	IRON	1			0.985	mg/L	98.5	
DUP02	Q2482843	A929121	IRON	4.54			4.74	mg/L		4.3
SPI02	Q2482844	A929121	IRON	4.54	1.00		5.44	mg/L	90.0	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	IRON	0.02			0.0206	mg/L	103.0	
ICV01	Q2483675	PERKIN ELM	IRON	1			0.995	mg/L	99.5	
CDL01	Q2483670	INORGANIC	IRON	10			10.0	mg/L	100.0	
ICS-A	Q2483671	PERKIN-ELM	IRON	200			192	mg/L	96.0	
ICS-AB	Q2483657	PERKIN ELM	IRON	200			190	mg/L	95.0	
LCCV	Q2483678	INORGANIC	IRON	0.02			0.0204	mg/L	102.0	
SER01	Q2483673	A929233	IRON	1.85			1.82	mg/L		1.6
CCV	Q2483664	INORGANIC	IRON	5.00			4.84	mg/L	96.8	
BLA01	Q2483654	NA	IRON			<	0.00800	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	IRON	5.00			4.86	mg/L	97.2	
BLA01	Q2483655	NA	IRON			<	0.00800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	IRON	5.00			4.89	mg/L	97.8	
BLA01	Q2483656	NA	IRON			<	0.00800	mg/L		
SER01	Q2483672	A929081	IRON	1.31			1.27	mg/L		3.1
CDL01	Q2483734	INORGANIC	IRON	0.02			0.0237	mg/L	118.5	
ICS-A	Q2483735	PERKIN-ELM	IRON	200			197	mg/L	98.5	
ICS-AB	Q2483729	PERKIN ELM	IRON	200			197	mg/L	98.5	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2482847	A929121	IRON	4.69			4.75	mg/L		1.3

SODIUM ICP SW846-6010B **M131.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
DUP02	Q2481640	A928639	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2481883	PERKIN ELM	SODIUM	20			19.0	mg/L	95.0	
CDL01	Q2481929	INORGANIC	SODIUM	0.1			0.0682	mg/L	68.2	
SER01	Q2481935	A929008	SODIUM	13.9			12.0	mg/L		14.7
CCV	Q2481924	INORGANIC	SODIUM	50			51.9	mg/L	103.8	
BLA01	Q2481903	NA	SODIUM			<	0.0400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	SODIUM	50			51.8	mg/L	103.6	
BLA01	Q2481904	NA	SODIUM			<	0.0400	mg/L		
SER01	Q2482049	A928993	SODIUM	644			579	mg/L		10.6
CDL01	Q2482047	INORGANIC	SODIUM	0.1			0.0717	mg/L	71.7	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	SODIUM			<	0.000360	mg/L		
LCS	Q2481639	SPEX	SODIUM	100			109	mg/L	109.0	
DUP02	Q2481640	A928639	SODIUM	108			107	mg/L		0.9
SPI02	Q2481641	A928639	SODIUM	108	100		218	mg/L	110.0	

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							

R586848 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

SODIUM ICP SW846-6010B **M131.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586848 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	SODIUM			<	0.000360	mg/L		
LCS	Q2482842	SPEX	SODIUM	100			104	mg/L	104.0	
DUP02	Q2482843	A929121	SODIUM	15.8			16.5	mg/L		4.3
SPI02	Q2482844	A929121	SODIUM	15.8	100		120	mg/L	104.2	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2483675	PERKIN ELM	SODIUM	20			18.9	mg/L	94.5	
CDL01	Q2483669	INORGANIC	SODIUM	0.1			0.0668	mg/L	66.8	
SER01	Q2483673	A929233	SODIUM	1380			1310	mg/L		5.2
CCV	Q2483664	INORGANIC	SODIUM	50			51.9	mg/L	103.8	
BLA01	Q2483654	NA	SODIUM			<	0.0400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	SODIUM	50			52.0	mg/L	104.0	
BLA01	Q2483655	NA	SODIUM			<	0.0400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	SODIUM	50			53.2	mg/L	106.4	
BLA01	Q2483656	NA	SODIUM			<	0.0400	mg/L		
SER01	Q2483672	A929081	SODIUM	59.5			51.1	mg/L		15.2
CDL01	Q2483734	INORGANIC	SODIUM	0.1			0.101	mg/L	101.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

NICKEL ICP SW846-6010B **M122.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
DUP02	Q2481640	A928639	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD

NICKEL ICP SW846-6010B **M122.3**

Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — *Continued*

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	NICKEL	0.005			0.00506	mg/L	101.2	
ICV01	Q2481883	PERKIN ELM	NICKEL	1			0.999	mg/L	99.9	
LCCV	Q2481937	INORGANIC	NICKEL	0.005			0.00503	mg/L	100.6	
CDL01	Q2481928	PERKIN ELM	NICKEL	0.080			0.0816	mg/L	102.0	
ICS-AB	Q2481905	PERKIN ELM	NICKEL	1.00			0.924	mg/L	92.4	
SER01	Q2481935	A929008	NICKEL	0.0551		CNA	0.0532	mg/L		
CCV	Q2481924	INORGANIC	NICKEL	5.00			4.92	mg/L	98.4	
BLA01	Q2481903	NA	NICKEL			<	0.00200	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	NICKEL	5.00			4.90	mg/L	98.0	
BLA01	Q2481904	NA	NICKEL			<	0.00200	mg/L		
SER01	Q2482049	A928993	NICKEL	71.5			73.6	mg/L		2.9
CDL01	Q2482047	INORGANIC	NICKEL	0.005			0.00513	mg/L	102.6	
ICS-AB	Q2482041	PERKIN ELM	NICKEL	1.00			0.926	mg/L	92.6	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	NICKEL			<	0.000360	mg/L		
LCS	Q2481639	SPEX	NICKEL	0.5			0.524	mg/L	104.8	
DUP02	Q2481640	A928639	NICKEL	0.00392		CNA	0.00371	mg/L		
SPI02	Q2481641	A928639	NICKEL	0.00392	0.500		0.503	mg/L	99.8	

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							

R586848 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	NICKEL			<	0.000360	mg/L		
LCS	Q2482842	SPEX	NICKEL	0.5			0.504	mg/L	100.8	

NICKEL ICP SW846-6010B **M122.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586848 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2482843	A929121	NICKEL	0.00642			0.00677	mg/L		5.3
SPI02	*Q2482844*	*A929121*	*NICKEL*	*0.00642*	*0.500*		*0.503*	*mg/L*	*99.3*	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	NICKEL	0.005			0.00518	mg/L	103.6	
ICV01	Q2483675	PERKIN ELM	NICKEL	1			1.00	mg/L	100.0	
CDL01	Q2483670	INORGANIC	NICKEL	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	NICKEL	1.00			0.923	mg/L	92.3	
LCCV	Q2483678	INORGANIC	NICKEL	0.005			0.00562	mg/L	112.4	
SER01	Q2483673	A929233	NICKEL	0.0124		CNA	0.0189	mg/L		
CCV	Q2483664	INORGANIC	NICKEL	5.00			4.95	mg/L	99.0	
BLA01	Q2483654	NA	NICKEL			<	0.00200	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	NICKEL	5.00			4.96	mg/L	99.2	
BLA01	Q2483655	NA	NICKEL			<	0.00200	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	NICKEL	5.00			5.05	mg/L	101.0	
BLA01	Q2483656	NA	NICKEL			<	0.00200	mg/L		
SER01	Q2483672	A929081	NICKEL	0.00629		CNA	0.00773	mg/L		
CDL01	Q2483734	INORGANIC	NICKEL	0.005			0.00611	mg/L	122.2	
ICS-AB	Q2483729	PERKIN ELM	NICKEL	1.00			1.00	mg/L	100.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

ZINC ICP SW846-6010B **M139.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
DUP02	Q2481640	A928639	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							

ZINC ICP SW846-6010B **M139.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	ZINC	0.0200			0.0210	mg/L	105.0	
ICV01	Q2481883	PERKIN ELM	ZINC	1			1.01	mg/L	101.0	
LCCV	Q2481937	INORGANIC	ZINC	0.0200			0.0194	mg/L	97.0	
CDL01	Q2481928	PERKIN ELM	ZINC	0.040			0.0393	mg/L	98.2	
ICS-AB	Q2481905	PERKIN ELM	ZINC	1.00			0.924	mg/L	92.4	
SER01	Q2481935	A929008	ZINC	0.0835			0.0815	mg/L		2.4
CCV	Q2481924	INORGANIC	ZINC	5.00			4.87	mg/L	97.4	
BLA01	Q2481903	NA	ZINC			<	0.00800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	ZINC	5.00			4.85	mg/L	97.0	
BLA01	Q2481904	NA	ZINC			<	0.00800	mg/L		
SER01	Q2482049	A928993	ZINC	1260			1320	mg/L		4.6
CDL01	Q2482047	INORGANIC	ZINC	0.0200			0.0189	mg/L	94.5	
ICS-AB	Q2482041	PERKIN ELM	ZINC	1.00			0.948	mg/L	94.8	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	ZINC				0.00164	mg/L		
LCS	Q2481639	SPEX	ZINC	0.5			0.524	mg/L	104.8	
DUP02	Q2481640	A928639	ZINC	0		BDL		mg/L		
SPI02	Q2481641	A928639	ZINC	0	0.500		0.498	mg/L	99.6	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	ZINC				0.00146	mg/L		
LCS	Q2482842	SPEX	ZINC	0.5			0.518	mg/L	103.6	

ZINC ICP SW846-6010B **M139.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586848 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2482843	A929121	ZINC	0		BDL		mg/L		
SPI02	Q2482844	A929121	ZINC	0	0.500		0.508	mg/L	101.6	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	ZINC	0.0200			0.0205	mg/L	102.5	
ICV01	Q2483675	PERKIN ELM	ZINC	1			1.02	mg/L	102.0	
CDL01	Q2483670	INORGANIC	ZINC	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	ZINC	1.00			0.959	mg/L	95.9	
LCCV	Q2483678	INORGANIC	ZINC	0.0200			0.0192	mg/L	96.0	
SER01	Q2483673	A929233	ZINC	0		BDL		mg/L		
CCV	Q2483664	INORGANIC	ZINC	5.00			5.04	mg/L	100.8	
BLA01	Q2483654	NA	ZINC			<	0.00800	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	ZINC	5.00			5.02	mg/L	100.4	
BLA01	Q2483655	NA	ZINC			<	0.00800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	ZINC	5.00			5.29	mg/L	105.8	
BLA01	Q2483656	NA	ZINC			<	0.00800	mg/L		
SER01	Q2483672	A929081	ZINC	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	ZINC	0.0200			0.0255	mg/L	127.5	
ICS-AB	Q2483729	PERKIN ELM	ZINC	1.00			1.15	mg/L	115.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586699 Analyst: C WILLHITE Run Date: 23-Sep-11 Instrument: GC/MS SVOA
Analytical Reviewer: L SMITH Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482262	HLI	Analysis Date/Time: 23-Sep-11 15:57							
BLA02	Q2482262	HLI	ACENAPHTHENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	ACENAPHTHYLENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	ANTHRACENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZO(A)PYRENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZO(B)FLUORANTHENE (3,4-			BDL	10.	ug/L		

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586699 Analyst: C WILLHITE Run Date: 23-Sep-11
Analytical Reviewer: L SMITH Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
			BENZOFLUORANTHENE)							
BLA02	Q2482262	HLI	BENZO(G,H,I)PERYLENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZO(K)FLUORANTHENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZYL ALCOHOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BIS(2-CHLOROETHOXY)METHANE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BIS(2-CHLOROETHYL)ETHER			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BIS(2-CHLOROISOPROPYL)ETHER			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BIS(2-ETHYLHEXYL)PHTHALATE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	4-BROMODIPHENYL ETHER			BDL	10.	ug/L		
BLA02	Q2482262	HLI	CARBAZOLE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	4-CHLOROANILINE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2-CHLORONAPHTHALENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	4-CHLOROPHENYL-PHENYLETHER			BDL	10.	ug/L		
BLA02	Q2482262	HLI	CHRYSENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	DIBENZ(A,H)ANTHRACENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	DIBENZOFURAN			BDL	10.	ug/L		
BLA02	Q2482262	HLI	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)			BDL	10.	ug/L		
BLA02	Q2482262	HLI	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)			BDL	10.	ug/L		
BLA02	Q2482262	HLI	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)			BDL	10.	ug/L		
BLA02	Q2482262	HLI	3,3'-DICHLOROBENZIDINE			BDL	20.	ug/L		
BLA02	Q2482262	HLI	DIETHYLPHTHALATE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	DIMETHYLPHTHALATE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	DI-N-BUTYLPHTHALATE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2,4-DINITROTOLUENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2,6-DINITROTOLUENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	DI-N-OCTYLPHTHALATE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	FLUORANTHENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	FLUORENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	HEXACHLOROBENZENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	HEXACHLOROBUTADIENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	HEXACHLOROCYCLOPENTADIENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	HEXACHLOROETHANE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	INDENO(1,2,3-CD)PYRENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	ISOPHORONE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2-METHYLNAPHTHALENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	NAPHTHALENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2-NITROANILINE (O-NITROANILINE)			BDL	50.	ug/L		
BLA02	Q2482262	HLI	3-NITROANILINE (M-NITROANILINE)			BDL	50.	ug/L		
BLA02	Q2482262	HLI	4-NITROANILINE (P-NITROANILINE)			BDL	50.	ug/L		
BLA02	Q2482262	HLI	NITROBENZENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	N-NITROSODIPHENYLAMINE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	N-NITROSO-DI-N-PROPYLAMINE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	PHENANTHRENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2-PICOLINE (2-METHYLPYRIDINE)			BDL	50.	ug/L		

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586699 Analytical — Analyst: C WILLHITE — Reviewer: L SMITH — Run Date: 23-Sep-11 — Review Date: 26-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482262	HLI	PYRENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	PYRIDINE			BDL	50.	ug/L		
BLA02	Q2482262	HLI	1,2,4,5-TETRACHLOROBENZENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	1,2,4-TRICHLOROBENZENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZOIC ACID			BDL	50.	ug/L		
BLA02	Q2482262	HLI	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2-CHLOROPHENOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2,4-DICHLOROPHENOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2,4-DIMETHYLPHENOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2,4-DINITROPHENOL			BDL	50.	ug/L		
BLA02	Q2482262	HLI	2-METHYLPHENOL (O-CRESOL)			BDL	10.	ug/L		
BLA02	Q2482262	HLI	4-METHYLPHENOL (P-CRESOL)			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2-NITROPHENOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	4-NITROPHENOL			BDL	50.	ug/L		
BLA02	Q2482262	HLI	PENTACHLOROPHENOL			BDL	50.	ug/L		
BLA02	Q2482262	HLI	PHENOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2,3,4,6-TETRACHLOROPHENOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2,4,5-TRICHLOROPHENOL			BDL	50.	ug/L		
BLA02	Q2482262	HLI	2,4,6-TRICHLOROPHENOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2-FLUOROPHENOL						65	
BLA02	Q2482262	HLI	PHENOL-D5						48	
BLA02	Q2482262	HLI	NITROBENZENE-D5						92	
BLA02	Q2482262	HLI	2-FLUOROBIPHENYL						85	
BLA02	Q2482262	HLI	2,4,6-TRIBROMOPHENOL						87	
BLA02	Q2482262	HLI	TERPHENYL-D14						141	

R586713 Prep — Analyst: J MINNIEAR, II — Reviewer: L SMITH — Run Date: 23-Sep-11 — Review Date: 26-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482262	HLI	Analytical Run: R586699							
LCS	Q2482263	HLI	Analytical Run: R586928							
SPI02	Q2482328	A928984	Analytical Run: R586928							
DPS02	Q2482329	A928984	Analytical Run: R586928							
SAMPLE	A929118	Rep: 0	Analytical Run: R586877							
SAMPLE	A929119	Rep: 0	Analytical Run: R586877							
SAMPLE	A929120	Rep: 0	Analytical Run: R586877							
SAMPLE	A929121	Rep: 0	Analytical Run: R586928							

R586877 Analytical — Analyst: J MINNIEAR, II — Reviewer: L SMITH — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: GC/MS SVOA

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2482266		Analysis Date/Time: 23-Sep-11 13:55							
CAL01	Q2482266		ACENAPHTHENE	1.0976						2
CAL01	Q2482266		ACENAPHTHYLENE	1.7268						1.9
CAL01	Q2482266		ANTHRACENE	1.0803						4.4
CAL01	Q2482266		BENZO(A)ANTHRACENE	1.0214						2.2

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586877 Analyst: J MINNIEAR, II Run Date: 27-Sep-11
Analytical Reviewer: L SMITH Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
			[(BENZO(A)ANTHRACENE]							
CAL01	Q2482266		BENZO(A)PYRENE	0.9171						3.6
CAL01	Q2482266		BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	1.1303						3.4
CAL01	Q2482266		BENZO(G,H,I)PERYLENE	0.6683						9.8
CAL01	Q2482266		BENZO(K)FLUORANTHENE	1.1592						2.3
CAL01	Q2482266		BENZYL ALCOHOL	0.7438						7.1
CAL01	Q2482266		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	0.5439						3.6
CAL01	Q2482266		BIS(2-CHLOROETHOXY)METHANE	0.3364						3.7
CAL01	Q2482266		BIS(2-CHLOROETHYL)ETHER	1.4034						6.3
CAL01	Q2482266		BIS(2-CHLOROISOPROPYL)ETHER	1.8862						4.1
CAL01	Q2482266		BIS(2-ETHYLHEXYL)PHTHALATE	0.7160						5.3
CAL01	Q2482266		4-BROMODIPHENYL ETHER	0.2314						3.7
CAL01	Q2482266		CARBAZOLE	0.8197						6.1
CAL01	Q2482266		4-CHLOROANILINE	0.2971						11.3
CAL01	Q2482266		2-CHLORONAPHTHALENE	1.0966						1.7
CAL01	Q2482266		4-CHLOROPHENYL-PHENYLETHER	0.6168						1.9
CAL01	Q2482266		CHRYSENE	1.0794						2.1
CAL01	Q2482266		DIBENZ(A,H)ANTHRACENE	0.7061						12.5
CAL01	Q2482266		DIBENZOFURAN	1.4572						2
CAL01	Q2482266		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	1.5312						2.3
CAL01	Q2482266		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	1.5760						2.2
CAL01	Q2482266		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	1.6180						2.4
CAL01	Q2482266		3,3'-DICHLOROBENZIDINE	0.2106						7.7
CAL01	Q2482266		DIETHYLPHTHALATE	1.1352						3.4
CAL01	Q2482266		DIMETHYLPHTHALATE	1.1904						2.2
CAL01	Q2482266		DI-N-BUTYLPHTHALATE	1.0733						9.4
CAL01	Q2482266		2,4-DINITROTOLUENE	0.3605						3.9
CAL01	Q2482266		2,6-DINITROTOLUENE	0.2886						1.9
CAL01	Q2482266		DI-N-OCTYLPHTHALATE	1.4260						4.6
CAL01	Q2482266		FLUORANTHENE	0.9863						12
CAL01	Q2482266		FLUORENE	1.2251						2.4
CAL01	Q2482266		HEXACHLOROBENZENE	0.2441						2.5
CAL01	Q2482266		HEXACHLOROBUTADIENE	0.2134						1.9
CAL01	Q2482266		HEXACHLOROCYCLOPENTADIENE	0.4623						5.7
CAL01	Q2482266		HEXACHLOROETHANE	0.5988						2.6
CAL01	Q2482266		INDENO(1,2,3-CD)PYRENE	0.8465						9.8
CAL01	Q2482266		ISOPHORONE	0.5619						4.4
CAL01	Q2482266		2-METHYLNAPHTHALENE	0.7481						2.2
CAL01	Q2482266		NAPHTHALENE	0.9600						2.1
CAL01	Q2482266		2-NITROANILINE (O-NITROANILINE)	0.2666						8.1
CAL01	Q2482266		3-NITROANILINE (M-NITROANILINE)	0.2046						10.6
CAL01	Q2482266		4-NITROANILINE (P-NITROANILINE)	0.1961						14.6
CAL01	Q2482266		NITROBENZENE	0.3466						3.9
CAL01	Q2482266		N-NITROSODIPHENYLAMINE	0.5330						3.1

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586877 Analyst: J MINNIEAR, II Run Date: 27-Sep-11
Analytical Reviewer: L SMITH Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2482266		N-NITROSO-DI-N-PROPYLAMINE	0.8036						4.9
CAL01	Q2482266		PHENANTHRENE	1.0738						1.9
CAL01	Q2482266		2-PICOLINE (2-METHYLPYRIDINE)	1.2850						10.2
CAL01	Q2482266		PYRENE	1.6708						4.5
CAL01	Q2482266		PYRIDINE	1.3066						7
CAL01	Q2482266		1,2,4,5-TETRACHLOROBENZENE	0.5592						2.1
CAL01	Q2482266		TOLUENEDIAMINE			LIN				0.996
CAL01	Q2482266		1,2,4-TRICHLOROBENZENE	0.3479						1.8
CAL01	Q2482266		BENZOIC ACID			LIN				0.990
CAL01	Q2482266		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	0.2698						6
CAL01	Q2482266		2-CHLOROPHENOL	1.3283						3.5
CAL01	Q2482266		2,4-DICHLOROPHENOL	0.2785						4.1
CAL01	Q2482266		2,4-DIMETHYLPHENOL	0.3230						4.1
CAL01	Q2482266		4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	0.1536						2.3
CAL01	Q2482266		2,4-DINITROPHENOL	0.1635						13.5
CAL01	Q2482266		2-METHYLPHENOL (O-CRESOL)	1.0915						4.7
CAL01	Q2482266		4-METHYLPHENOL (P-CRESOL)	1.0600						6.3
CAL01	Q2482266		2-NITROPHENOL	0.1841						8.4
CAL01	Q2482266		4-NITROPHENOL	0.1110						9.3
CAL01	Q2482266		PENTACHLOROPHENOL	0.1470						5.1
CAL01	Q2482266		PHENOL	1.5041						5.9
CAL01	Q2482266		2,3,4,6-TETRACHLOROPHENOL	0.2870						9
CAL01	Q2482266		2,4,5-TRICHLOROPHENOL	0.3780						7.6
CAL01	Q2482266		2,4,6-TRICHLOROPHENOL	0.3697						5
CAL01	Q2482266		2-FLUOROPHENOL	1.2821						9.1
CAL01	Q2482266		PHENOL-D5	1.6434						5.4
CAL01	Q2482266		NITROBENZENE-D5	0.3489						2.7
CAL01	Q2482266		2-FLUOROBIPHENYL	1.3154						1.5
CAL01	Q2482266		2,4,6-TRIBROMOPHENOL	0.1283						6.8
CAL01	Q2482266		TERPHENYL-D14	1.1631						3.9
ICV01	Q2482267		Analysis Date/Time: 23-Sep-11 17:44							
ICV01	Q2482267		ACENAPHTHENE	50.0			53.5	ug/L	107	
ICV01	Q2482267		ACENAPHTHYLENE	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		ANTHRACENE	50.0			53.5	ug/L	107	
ICV01	Q2482267		BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		BENZO(A)PYRENE	50.0			60.7	ug/L	121.4	
ICV01	Q2482267		BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	50.0			54.8	ug/L	109.6	
ICV01	Q2482267		BENZO(G,H,I)PERYLENE	50.0			50	ug/L	100	
ICV01	Q2482267		BENZO(K)FLUORANTHENE	50.0			55.7	ug/L	111.4	
ICV01	Q2482267		BENZYL ALCOHOL	50.0			55.5	ug/L	111	
ICV01	Q2482267		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	50.0			53.7	ug/L	107.4	
ICV01	Q2482267		BIS(2-CHLOROETHOXY)METHANE	50.0			54	ug/L	108	
ICV01	Q2482267		BIS(2-CHLOROETHYL)ETHER	50.0			43.8	ug/L	87.6	
ICV01	Q2482267		BIS(2-CHLOROISOPROPYL)ETHER	50.0			50.1	ug/L	100.2	
ICV01	Q2482267		BIS(2-ETHYLHEXYL)PHTHALATE	50.0			53.2	ug/L	106.4	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586877 Analyst: J MINNIEAR, II Run Date: 27-Sep-11
Analytical Reviewer: L SMITH Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2482267		4-BROMODIPHENYL ETHER	50.0			56.1	ug/L	112.2	
ICV01	Q2482267		CARBAZOLE	50.0			51.9	ug/L	103.8	
ICV01	Q2482267		4-CHLOROANILINE	50.0			61.3	ug/L	122.6	
ICV01	Q2482267		2-CHLORONAPHTHALENE	50.0			60.4	ug/L	120.8	
ICV01	Q2482267		4-CHLOROPHENYL-PHENYLETHER	50.0			52.9	ug/L	105.8	
ICV01	Q2482267		CHRYSENE	50.0			54.9	ug/L	109.8	
ICV01	Q2482267		DIBENZ(A,H)ANTHRACENE	50.0			54.5	ug/L	109	
ICV01	Q2482267		DIBENZOFURAN	50.0			54.2	ug/L	108.4	
ICV01	Q2482267		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	50.0			50	ug/L	100	
ICV01	Q2482267		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	50.0			50.6	ug/L	101.2	
ICV01	Q2482267		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	50.0			50.6	ug/L	101.2	
ICV01	Q2482267		3,3'-DICHLOROBENZIDINE	50.0		*	74.6	ug/L	149.2	
ICV01	Q2482267		DIETHYLPHTHALATE	50.0			52.1	ug/L	104.2	
ICV01	Q2482267		DIMETHYLPHTHALATE	50.0			53.8	ug/L	107.6	
ICV01	Q2482267		DI-N-BUTYLPHTHALATE	50.0			52.4	ug/L	104.8	
ICV01	Q2482267		2,4-DINITROTOLUENE	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		2,6-DINITROTOLUENE	50.0			51.2	ug/L	102.4	
ICV01	Q2482267		DI-N-OCTYLPHTHALATE	50.0			57.3	ug/L	114.6	
ICV01	Q2482267		FLUORANTHENE	50.0			50.9	ug/L	101.8	
ICV01	Q2482267		FLUORENE	50.0			52	ug/L	104	
ICV01	Q2482267		HEXACHLOROBENZENE	50.0			51.5	ug/L	103	
ICV01	Q2482267		HEXACHLOROBUTADIENE	50.0			50.3	ug/L	100.6	
ICV01	Q2482267		HEXACHLOROCYCLOPENTADIENE	50.0			40.7	ug/L	81.4	
ICV01	Q2482267		HEXACHLOROETHANE	50.0			49.5	ug/L	99	
ICV01	Q2482267		INDENO(1,2,3-CD)PYRENE	50.0			51	ug/L	102	
ICV01	Q2482267		ISOPHORONE	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		2-METHYLNAPHTHALENE	50.0			64.9	ug/L	129.8	
ICV01	Q2482267		NAPHTHALENE	50.0			53.1	ug/L	106.2	
ICV01	Q2482267		2-NITROANILINE (O-NITROANILINE)	50.0			55	ug/L	110	
ICV01	Q2482267		3-NITROANILINE (M-NITROANILINE)	50.0		*	68.3	ug/L	136.6	
ICV01	Q2482267		4-NITROANILINE (P-NITROANILINE)	50.0			58.8	ug/L	117.6	
ICV01	Q2482267		NITROBENZENE	50.0			50	ug/L	100	
ICV01	Q2482267		N-NITROSODIPHENYLAMINE	100			101	ug/L	101	
ICV01	Q2482267		N-NITROSO-DI-N-PROPYLAMINE	50.0			51.9	ug/L	103.8	
ICV01	Q2482267		PHENANTHRENE	50.0			55.6	ug/L	111.2	
ICV01	Q2482267		2-PICOLINE (2-METHYLPYRIDINE)	50.0			43.3	ug/L	86.6	
ICV01	Q2482267		PYRENE	50.0			54.4	ug/L	108.8	
ICV01	Q2482267		PYRIDINE	50.0			50.6	ug/L	101.2	
ICV01	Q2482267		1,2,4,5-TETRACHLOROBENZENE	50.0			53.2	ug/L	106.4	
ICV01	Q2482267		TOLUENEDIAMINE	50.0			49.3	ug/L	98.6	
ICV01	Q2482267		1,2,4-TRICHLOROBENZENE	50.0			51	ug/L	102	
ICV01	Q2482267		BENZOIC ACID	50.0			53.7	ug/L	107.4	
ICV01	Q2482267		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	50.0			61.7	ug/L	123.4	
ICV01	Q2482267		2-CHLOROPHENOL	50.0			51.2	ug/L	102.4	
ICV01	Q2482267		2,4-DICHLOROPHENOL	50.0			54.2	ug/L	108.4	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586877 Analytical — Analyst: J MINNIEAR, II — Reviewer: L SMITH — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2482267		2,4-DIMETHYLPHENOL	50.0			52.5	ug/L	105	
ICV01	Q2482267		4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	50.0			50.2	ug/L	100.4	
ICV01	Q2482267		2,4-DINITROPHENOL	50.0			53.7	ug/L	107.4	
ICV01	Q2482267		2-METHYLPHENOL (O-CRESOL)	50.0			53.9	ug/L	107.8	
ICV01	Q2482267		4-METHYLPHENOL (P-CRESOL)	50.0			56.6	ug/L	113.2	
ICV01	Q2482267		2-NITROPHENOL	50.0			54	ug/L	108	
ICV01	Q2482267		4-NITROPHENOL	50.0			46.1	ug/L	92.2	
ICV01	Q2482267		PENTACHLOROPHENOL	50.0			47.8	ug/L	95.6	
ICV01	Q2482267		PHENOL	50.0			53	ug/L	106	
ICV01	Q2482267		2,3,4,6-TETRACHLOROPHENOL	50.0			53.3	ug/L	106.6	
ICV01	Q2482267		2,4,5-TRICHLOROPHENOL	50.0			54.8	ug/L	109.6	
ICV01	Q2482267		2,4,6-TRICHLOROPHENOL	50.0			52	ug/L	104	
CCVD	Q2484005		Analysis Date/Time: 27-Sep-11 13:54							
CCVD	Q2484005		ACENAPHTHENE	1.0976			1.1386			3.7
CCVD	Q2484005		ACENAPHTHYLENE	1.7268			1.7864			3.5
CCVD	Q2484005		ANTHRACENE	1.0803			1.1093			2.7
CCVD	Q2484005		BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	1.0214			1.0545			3.2
CCVD	Q2484005		BENZO(A)PYRENE	0.9171			0.9372			2.2
CCVD	Q2484005		BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	1.1303			1.1690			3.4
CCVD	Q2484005		BENZO(G,H,I)PERYLENE	0.6683			0.6823			2.1
CCVD	Q2484005		BENZO(K)FLUORANTHENE	1.1592			1.1448			1.2
CCVD	Q2484005		BENZYL ALCOHOL	0.7438			0.7889			6.1
CCVD	Q2484005		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	0.5439			0.5980			9.9
CCVD	Q2484005		BIS(2-CHLOROETHOXY)METHANE	0.3364			0.3504			4.2
CCVD	Q2484005		BIS(2-CHLOROETHYL)ETHER	1.4034			1.2210			13
CCVD	Q2484005		BIS(2-CHLOROISOPROPYL)ETHER	1.8862			2.0049			6.3
CCVD	Q2484005		BIS(2-ETHYLHEXYL)PHTHALATE	0.7160			0.7761			8.4
CCVD	Q2484005		4-BROMODIPHENYL ETHER	0.2314			0.2387			3.2
CCVD	Q2484005		CARBAZOLE	0.8197			0.8116			1
CCVD	Q2484005		4-CHLOROANILINE	0.2971			0.3252			9.5
CCVD	Q2484005		2-CHLORONAPHTHALENE	1.0966			1.1308			3.1
CCVD	Q2484005		4-CHLOROPHENYL-PHENYLETHER	0.6168			0.6342			2.8
CCVD	Q2484005		CHRYSENE	1.0794			1.0997			1.9
CCVD	Q2484005		DIBENZ(A,H)ANTHRACENE	0.7061			0.6950			1.6
CCVD	Q2484005		DIBENZOFURAN	1.4572			1.5066			3.4
CCVD	Q2484005		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	1.5312			1.5648			2.2
CCVD	Q2484005		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	1.5760			1.6126			2.3
CCVD	Q2484005		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	1.6180			1.6186			0
CCVD	Q2484005		3,3'-DICHLOROBENZIDINE	0.2106			0.2387			13.3
CCVD	Q2484005		DIETHYLPHTHALATE	1.1352			1.1411			0.5
CCVD	Q2484005		DIMETHYLPHTHALATE	1.1904			1.2203			2.5
CCVD	Q2484005		DI-N-BUTYLPHTHALATE	1.0733			1.0795			0.6
CCVD	Q2484005		2,4-DINITROTOLUENE	0.3605			0.3717			3.1
CCVD	Q2484005		2,6-DINITROTOLUENE	0.2886			0.2929			1.5

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586877 Analyst: J MINNIEAR, II Run Date: 27-Sep-11
Analytical Reviewer: L SMITH Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCVD	Q2484005		DI-N-OCTYLPHTHALATE	1.4260			1.5680			10
CCVD	Q2484005		FLUORANTHENE	0.9863			0.9795			0.7
CCVD	Q2484005		FLUORENE	1.2251			1.2523			2.2
CCVD	Q2484005		HEXACHLOROBENZENE	0.2441			0.2470			1.2
CCVD	Q2484005		HEXACHLOROBUTADIENE	0.2134			0.2193			2.8
CCVD	Q2484005		HEXACHLOROCYCLOPENTADIENE	0.4623			0.4733			2.4
CCVD	Q2484005		HEXACHLOROETHANE	0.5988			0.6178			3.2
CCVD	Q2484005		INDENO(1,2,3-CD)PYRENE	0.8465			0.8037			5.1
CCVD	Q2484005		ISOPHORONE	0.5619			0.5695			1.4
CCVD	Q2484005		2-METHYLNAPHTHALENE	0.7481			0.7807			4.4
CCVD	Q2484005		NAPHTHALENE	0.9600			0.9951			3.7
CCVD	Q2484005		2-NITROANILINE (O-NITROANILINE)	0.2666			0.2783			4.4
CCVD	Q2484005		3-NITROANILINE (M-NITROANILINE)	0.2046			0.2310			12.9
CCVD	Q2484005		4-NITROANILINE (P-NITROANILINE)	0.1961			0.1921			2
CCVD	Q2484005		NITROBENZENE	0.3466			0.3573			3.1
CCVD	Q2484005		N-NITROSODIPHENYLAMINE	0.5330			0.5503			3.2
CCVD	Q2484005		N-NITROSO-DI-N-PROPYLAMINE	0.8036			0.8812			9.7
CCVD	Q2484005		PHENANTHRENE	1.0738			1.0957			2
CCVD	Q2484005		2-PICOLINE (2-METHYLPYRIDINE)	1.2850			1.2738			0.9
CCVD	Q2484005		PYRENE	1.6708			1.7488			4.7
CCVD	Q2484005		PYRIDINE	1.3066			1.2464			4.6
CCVD	Q2484005		1,2,4,5-TETRACHLOROBENZENE	0.5592			0.5740			2.6
CCVD	Q2484005		TOLUENEDIAMINE	50.000		LIN	55.067			10.1
CCVD	Q2484005		1,2,4-TRICHLOROBENZENE	0.3479			0.3596			3.4
CCVD	Q2484005		BENZOIC ACID	50.000		LIN	53.881			7.8
CCVD	Q2484005		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	0.2698			0.2876			6.6
CCVD	Q2484005		2-CHLOROPHENOL	1.3283			1.4081			6
CCVD	Q2484005		2,4-DICHLOROPHENOL	0.2785			0.2892			3.8
CCVD	Q2484005		2,4-DIMETHYLPHENOL	0.3230			0.3422			5.9
CCVD	Q2484005		4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	0.1536			0.1573			2.4
CCVD	Q2484005		2,4-DINITROPHENOL	0.1635			0.1621			0.9
CCVD	Q2484005		2-METHYLPHENOL (O-CRESOL)	1.0915			1.1905			9.1
CCVD	Q2484005		4-METHYLPHENOL (P-CRESOL)	1.0600			1.1904			12.3
CCVD	Q2484005		2-NITROPHENOL	0.1841			0.1944			5.6
CCVD	Q2484005		4-NITROPHENOL	0.1110			0.1042			6.1
CCVD	Q2484005		PENTACHLOROPHENOL	0.1470			0.1491			1.4
CCVD	Q2484005		PHENOL	1.5041			1.6099			7
CCVD	Q2484005		2,3,4,6-TETRACHLOROPHENOL	0.2870			0.2965			3.3
CCVD	Q2484005		2,4,5-TRICHLOROPHENOL	0.3780			0.4044			7
CCVD	Q2484005		2,4,6-TRICHLOROPHENOL	0.3697			0.3875			4.8
CCVD	Q2484005		2-FLUOROPHENOL	1.2821			1.3088			2.1
CCVD	Q2484005		PHENOL-D5	1.6434			1.5869			3.4
CCVD	Q2484005		NITROBENZENE-D5	0.3489			0.3640			4.3
CCVD	Q2484005		2-FLUOROBIPHENYL	1.3154			1.3519			2.8
CCVD	Q2484005		2,4,6-TRIBROMOPHENOL	0.1283			0.1325			3.3
CCVD	Q2484005		TERPHENYL-D14	1.1631			1.2530			7.7

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586877 Analyst: J MINNIEAR, II Run Date: 27-Sep-11
Analytical Reviewer: L SMITH Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SAMPLE	A929118		Analysis Date/Time: 27-Sep-11 23:59							
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		Analysis Date/Time: 28-Sep-11 00:37							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
SAMPLE	A929120		Analysis Date/Time: 28-Sep-11 01:15							
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							

Q2482266 Value reported for analytes calibrated by linear (LIN) or
Q2482266 Value reported for analytes calibrated by linear (LIN) or
Q2482266 quadratic (QDR) equations is r2 (Coef. of Determination).
Q2482266 quadratic (QDR) equations is r2 (Coef. of Determination).
Q2482267 *Outside method limits.
Q2482267 *Outside method limits.
Q2484005 Value reported for analytes calibrated by linear (LIN) or quadratic (QDR)
Q2484005 Value reported for analytes calibrated by linear (LIN) or quadratic (QDR)
Q2484005 equations is concentration.
Q2484005 equations is concentration.

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11 Instrument: GC/MS SVOA
Analytical Reviewer: L SMITH Review Date: 29-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2482266		Analysis Date/Time: 23-Sep-11 13:55							
CAL01	Q2482266		ACENAPHTHENE	1.0976						2
CAL01	Q2482266		ACENAPHTHYLENE	1.7268						1.9
CAL01	Q2482266		ANTHRACENE	1.0803						4.4
CAL01	Q2482266		BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	1.0214						2.2
CAL01	Q2482266		BENZO(A)PYRENE	0.9171						3.6
CAL01	Q2482266		BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	1.1303						3.4
CAL01	Q2482266		BENZO(G,H,I)PERYLENE	0.6683						9.8
CAL01	Q2482266		BENZO(K)FLUORANTHENE	1.1592						2.3
CAL01	Q2482266		BENZYL ALCOHOL	0.7438						7.1
CAL01	Q2482266		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	0.5439						3.6
CAL01	Q2482266		BIS(2-CHLOROETHOXY)METHANE	0.3364						3.7
CAL01	Q2482266		BIS(2-CHLOROETHYL)ETHER	1.4034						6.3
CAL01	Q2482266		BIS(2-CHLOROISOPROPYL)ETHER	1.8862						4.1
CAL01	Q2482266		BIS(2-ETHYLHEXYL)PHTHALATE	0.7160						5.3
CAL01	Q2482266		4-BROMODIPHENYL ETHER	0.2314						3.7
CAL01	Q2482266		CARBAZOLE	0.8197						6.1
CAL01	Q2482266		4-CHLOROANILINE	0.2971						11.3
CAL01	Q2482266		2-CHLORONAPHTHALENE	1.0966						1.7
CAL01	Q2482266		4-CHLOROPHENYL-PHENYLETHER	0.6168						1.9
CAL01	Q2482266		CHRYSENE	1.0794						2.1
CAL01	Q2482266		DIBENZ(A,H)ANTHRACENE	0.7061						12.5
CAL01	Q2482266		DIBENZOFURAN	1.4572						2
CAL01	Q2482266		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	1.5312						2.3
CAL01	Q2482266		1,3-DICHLOROBENZENE (M-	1.5760						2.2

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 *Continued*

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
			DICHLOROBENZENE)							
CAL01	Q2482266		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	1.6180						2.4
CAL01	Q2482266		3,3'-DICHLOROBENZIDINE	0.2106						7.7
CAL01	Q2482266		DIETHYLPHTHALATE	1.1352						3.4
CAL01	Q2482266		DIMETHYLPHTHALATE	1.1904						2.2
CAL01	Q2482266		DI-N-BUTYLPHTHALATE	1.0733						9.4
CAL01	Q2482266		2,4-DINITROTOLUENE	0.3605						3.9
CAL01	Q2482266		2,6-DINITROTOLUENE	0.2886						1.9
CAL01	Q2482266		DI-N-OCTYLPHTHALATE	1.4260						4.6
CAL01	Q2482266		FLUORANTHENE	0.9863						12
CAL01	Q2482266		FLUORENE	1.2251						2.4
CAL01	Q2482266		HEXACHLOROBENZENE	0.2441						2.5
CAL01	Q2482266		HEXACHLOROBUTADIENE	0.2134						1.9
CAL01	Q2482266		HEXACHLOROCYCLOPENTADIENE	0.4623						5.7
CAL01	Q2482266		HEXACHLOROETHANE	0.5988						2.6
CAL01	Q2482266		INDENO(1,2,3-CD)PYRENE	0.8465						9.8
CAL01	Q2482266		ISOPHORONE	0.5619						4.4
CAL01	Q2482266		2-METHYLNAPHTHALENE	0.7481						2.2
CAL01	Q2482266		NAPHTHALENE	0.9600						2.1
CAL01	Q2482266		2-NITROANILINE (O-NITROANILINE)	0.2666						8.1
CAL01	Q2482266		3-NITROANILINE (M-NITROANILINE)	0.2046						10.6
CAL01	Q2482266		4-NITROANILINE (P-NITROANILINE)	0.1961						14.6
CAL01	Q2482266		NITROBENZENE	0.3466						3.9
CAL01	Q2482266		N-NITROSODIPHENYLAMINE	0.5330						3.1
CAL01	Q2482266		N-NITROSO-DI-N-PROPYLAMINE	0.8036						4.9
CAL01	Q2482266		PHENANTHRENE	1.0738						1.9
CAL01	Q2482266		2-PICOLINE (2-METHYLPYRIDINE)	1.2850						10.2
CAL01	Q2482266		PYRENE	1.6708						4.5
CAL01	Q2482266		PYRIDINE	1.3066						7
CAL01	Q2482266		1,2,4,5-TETRACHLOROBENZENE	0.5592						2.1
CAL01	Q2482266		TOLUENEDIAMINE			LIN				0.996
CAL01	Q2482266		1,2,4-TRICHLOROBENZENE	0.3479						1.8
CAL01	Q2482266		BENZOIC ACID			LIN				0.990
CAL01	Q2482266		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	0.2698						6
CAL01	Q2482266		2-CHLOROPHENOL	1.3283						3.5
CAL01	Q2482266		2,4-DICHLOROPHENOL	0.2785						4.1
CAL01	Q2482266		2,4-DIMETHYLPHENOL	0.3230						4.1
CAL01	Q2482266		4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	0.1536						2.3
CAL01	Q2482266		2,4-DINITROPHENOL	0.1635						13.5
CAL01	Q2482266		2-METHYLPHENOL (O-CRESOL)	1.0915						4.7
CAL01	Q2482266		4-METHYLPHENOL (P-CRESOL)	1.0600						6.3
CAL01	Q2482266		2-NITROPHENOL	0.1841						8.4
CAL01	Q2482266		4-NITROPHENOL	0.1110						9.3
CAL01	Q2482266		PENTACHLOROPHENOL	0.1470						5.1
CAL01	Q2482266		PHENOL	1.5041						5.9

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2482266		2,3,4,6-TETRACHLOROPHENOL	0.2870						9
CAL01	Q2482266		2,4,5-TRICHLOROPHENOL	0.3780						7.6
CAL01	Q2482266		2,4,6-TRICHLOROPHENOL	0.3697						5
CAL01	Q2482266		2-FLUOROPHENOL	1.2821						9.1
CAL01	Q2482266		PHENOL-D5	1.6434						5.4
CAL01	Q2482266		NITROBENZENE-D5	0.3489						2.7
CAL01	Q2482266		2-FLUOROBIPHENYL	1.3154						1.5
CAL01	Q2482266		2,4,6-TRIBROMOPHENOL	0.1283						6.8
CAL01	Q2482266		TERPHENYL-D14	1.1631						3.9
ICV01	Q2482267		Analysis Date/Time: 23-Sep-11 17:44							
ICV01	Q2482267		ACENAPHTHENE	50.0			53.5	ug/L	107	
ICV01	Q2482267		ACENAPHTHYLENE	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		ANTHRACENE	50.0			53.5	ug/L	107	
ICV01	Q2482267		BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		BENZO(A)PYRENE	50.0			60.7	ug/L	121.4	
ICV01	Q2482267		BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	50.0			54.8	ug/L	109.6	
ICV01	Q2482267		BENZO(G,H,I)PERYLENE	50.0			50	ug/L	100	
ICV01	Q2482267		BENZO(K)FLUORANTHENE	50.0			55.7	ug/L	111.4	
ICV01	Q2482267		BENZYL ALCOHOL	50.0			55.5	ug/L	111	
ICV01	Q2482267		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	50.0			53.7	ug/L	107.4	
ICV01	Q2482267		BIS(2-CHLOROETHOXY)METHANE	50.0			54	ug/L	108	
ICV01	Q2482267		BIS(2-CHLOROETHYL)ETHER	50.0			43.8	ug/L	87.6	
ICV01	Q2482267		BIS(2-CHLOROISOPROPYL)ETHER	50.0			50.1	ug/L	100.2	
ICV01	Q2482267		BIS(2-ETHYLHEXYL)PHTHALATE	50.0			53.2	ug/L	106.4	
ICV01	Q2482267		4-BROMODIPHENYL ETHER	50.0			56.1	ug/L	112.2	
ICV01	Q2482267		CARBAZOLE	50.0			51.9	ug/L	103.8	
ICV01	Q2482267		4-CHLOROANILINE	50.0			61.3	ug/L	122.6	
ICV01	Q2482267		2-CHLORONAPHTHALENE	50.0			60.4	ug/L	120.8	
ICV01	Q2482267		4-CHLOROPHENYL-PHENYLETHER	50.0			52.9	ug/L	105.8	
ICV01	Q2482267		CHRYSENE	50.0			54.9	ug/L	109.8	
ICV01	Q2482267		DIBENZ(A,H)ANTHRACENE	50.0			54.5	ug/L	109	
ICV01	Q2482267		DIBENZOFURAN	50.0			54.2	ug/L	108.4	
ICV01	Q2482267		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	50.0			50	ug/L	100	
ICV01	Q2482267		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	50.0			50.6	ug/L	101.2	
ICV01	Q2482267		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	50.0			50.6	ug/L	101.2	
ICV01	Q2482267		3,3'-DICHLOROBENZIDINE	50.0		*	74.6	ug/L	149.2	
ICV01	Q2482267		DIETHYLPHTHALATE	50.0			52.1	ug/L	104.2	
ICV01	Q2482267		DIMETHYLPHTHALATE	50.0			53.8	ug/L	107.6	
ICV01	Q2482267		DI-N-BUTYLPHTHALATE	50.0			52.4	ug/L	104.8	
ICV01	Q2482267		2,4-DINITROTOLUENE	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		2,6-DINITROTOLUENE	50.0			51.2	ug/L	102.4	
ICV01	Q2482267		DI-N-OCTYLPHTHALATE	50.0			57.3	ug/L	114.6	
ICV01	Q2482267		FLUORANTHENE	50.0			50.9	ug/L	101.8	
ICV01	Q2482267		FLUORENE	50.0			52	ug/L	104	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2482267		HEXACHLOROBENZENE	50.0			51.5	ug/L	103	
ICV01	Q2482267		HEXACHLOROBUTADIENE	50.0			50.3	ug/L	100.6	
ICV01	Q2482267		HEXACHLOROCYCLOPENTADIENE	50.0			40.7	ug/L	81.4	
ICV01	Q2482267		HEXACHLOROETHANE	50.0			49.5	ug/L	99	
ICV01	Q2482267		INDENO(1,2,3-CD)PYRENE	50.0			51	ug/L	102	
ICV01	Q2482267		ISOPHORONE	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		2-METHYLNAPHTHALENE	50.0			64.9	ug/L	129.8	
ICV01	Q2482267		NAPHTHALENE	50.0			53.1	ug/L	106.2	
ICV01	Q2482267		2-NITROANILINE (O-NITROANILINE)	50.0			55	ug/L	110	
ICV01	Q2482267		3-NITROANILINE (M-NITROANILINE)	50.0		*	68.3	ug/L	136.6	
ICV01	Q2482267		4-NITROANILINE (P-NITROANILINE)	50.0			58.8	ug/L	117.6	
ICV01	Q2482267		NITROBENZENE	50.0			50	ug/L	100	
ICV01	Q2482267		N-NITROSODIPHENYLAMINE	100			101	ug/L	101	
ICV01	Q2482267		N-NITROSO-DI-N-PROPYLAMINE	50.0			51.9	ug/L	103.8	
ICV01	Q2482267		PHENANTHRENE	50.0			55.6	ug/L	111.2	
ICV01	Q2482267		2-PICOLINE (2-METHYLPYRIDINE)	50.0			43.3	ug/L	86.6	
ICV01	Q2482267		PYRENE	50.0			54.4	ug/L	108.8	
ICV01	Q2482267		PYRIDINE	50.0			50.6	ug/L	101.2	
ICV01	Q2482267		1,2,4,5-TETRACHLOROBENZENE	50.0			53.2	ug/L	106.4	
ICV01	Q2482267		TOLUENEDIAMINE	50.0			49.3	ug/L	98.6	
ICV01	Q2482267		1,2,4-TRICHLOROBENZENE	50.0			51	ug/L	102	
ICV01	Q2482267		BENZOIC ACID	50.0			53.7	ug/L	107.4	
ICV01	Q2482267		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	50.0			61.7	ug/L	123.4	
ICV01	Q2482267		2-CHLOROPHENOL	50.0			51.2	ug/L	102.4	
ICV01	Q2482267		2,4-DICHLOROPHENOL	50.0			54.2	ug/L	108.4	
ICV01	Q2482267		2,4-DIMETHYLPHENOL	50.0			52.5	ug/L	105	
ICV01	Q2482267		4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	50.0			50.2	ug/L	100.4	
ICV01	Q2482267		2,4-DINITROPHENOL	50.0			53.7	ug/L	107.4	
ICV01	Q2482267		2-METHYLPHENOL (O-CRESOL)	50.0			53.9	ug/L	107.8	
ICV01	Q2482267		4-METHYLPHENOL (P-CRESOL)	50.0			56.6	ug/L	113.2	
ICV01	Q2482267		2-NITROPHENOL	50.0			54	ug/L	108	
ICV01	Q2482267		4-NITROPHENOL	50.0			46.1	ug/L	92.2	
ICV01	Q2482267		PENTACHLOROPHENOL	50.0			47.8	ug/L	95.6	
ICV01	Q2482267		PHENOL	50.0			53	ug/L	106	
ICV01	Q2482267		2,3,4,6-TETRACHLOROPHENOL	50.0			53.3	ug/L	106.6	
ICV01	Q2482267		2,4,5-TRICHLOROPHENOL	50.0			54.8	ug/L	109.6	
ICV01	Q2482267		2,4,6-TRICHLOROPHENOL	50.0			52	ug/L	104	
CCVD	Q2484461		Analysis Date/Time: 28-Sep-11 13:04							
CCVD	Q2484461		ACENAPHTHENE	1.0976			1.1383			3.7
CCVD	Q2484461		ACENAPHTHYLENE	1.7268			1.7857			3.4
CCVD	Q2484461		ANTHRACENE	1.0803			1.1343			5
CCVD	Q2484461		BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	1.0214			1.0502			2.8
CCVD	Q2484461		BENZO(A)PYRENE	0.9171			0.9572			4.4
CCVD	Q2484461		BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	1.1303			1.2277			8.6
CCVD	Q2484461		BENZO(G,H,I)PERYLENE	0.6683			0.6384			4.5

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCVD	Q2484461		BENZO(K)FLUORANTHENE	1.1592			1.1774			1.6
CCVD	Q2484461		BENZYL ALCOHOL	0.7438			0.8009			7.7
CCVD	Q2484461		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	0.5439			0.5946			9.3
CCVD	Q2484461		BIS(2-CHLOROETHOXY)METHANE	0.3364			0.3519			4.6
CCVD	Q2484461		BIS(2-CHLOROETHYL)ETHER	1.4034			1.2239			12.8
CCVD	Q2484461		BIS(2-CHLOROISOPROPYL)ETHER	1.8862			2.0824			10.4
CCVD	Q2484461		BIS(2-ETHYLHEXYL)PHTHALATE	0.7160			0.7695			7.5
CCVD	Q2484461		4-BROMODIPHENYL ETHER	0.2314			0.2377			2.7
CCVD	Q2484461		CARBAZOLE	0.8197			0.8246			0.6
CCVD	Q2484461		4-CHLOROANILINE	0.2971			0.3244			9.2
CCVD	Q2484461		2-CHLORONAPHTHALENE	1.0966			1.1178			1.9
CCVD	Q2484461		4-CHLOROPHENYL-PHENYLETHER	0.6168			0.6378			3.4
CCVD	Q2484461		CHRYSENE	1.0794			1.1027			2.2
CCVD	Q2484461		DIBENZ(A,H)ANTHRACENE	0.7061			0.6660			5.7
CCVD	Q2484461		DIBENZOFURAN	1.4572			1.5016			3
CCVD	Q2484461		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	1.5312			1.5891			3.8
CCVD	Q2484461		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	1.5760			1.6197			2.8
CCVD	Q2484461		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	1.6180			1.6322			0.9
CCVD	Q2484461		3,3'-DICHLOROBENZIDINE	0.2106			0.2321			10.2
CCVD	Q2484461		DIETHYLPHTHALATE	1.1352			1.1735			3.4
CCVD	Q2484461		DIMETHYLPHTHALATE	1.1904			1.2370			3.9
CCVD	Q2484461		DI-N-BUTYLPHTHALATE	1.0733			1.0956			2.1
CCVD	Q2484461		2,4-DINITROTOLUENE	0.3605			0.3789			5.1
CCVD	Q2484461		2,6-DINITROTOLUENE	0.2886			0.2982			3.3
CCVD	Q2484461		DI-N-OCTYLPHTHALATE	1.4260			1.5923			11.7
CCVD	Q2484461		FLUORANTHENE	0.9863			0.9909			0.5
CCVD	Q2484461		FLUORENE	1.2251			1.2664			3.4
CCVD	Q2484461		HEXACHLOROBENZENE	0.2441			0.2514			3
CCVD	Q2484461		HEXACHLOROBUTADIENE	0.2134			0.2165			1.5
CCVD	Q2484461		HEXACHLOROCYCLOPENTADIENE	0.4623			0.4631			0.2
CCVD	Q2484461		HEXACHLOROETHANE	0.5988			0.6165			3
CCVD	Q2484461		INDENO(1,2,3-CD)PYRENE	0.8465			0.8083			4.5
CCVD	Q2484461		ISOPHORONE	0.5619			0.5699			1.4
CCVD	Q2484461		2-METHYLNAPHTHALENE	0.7481			0.7802			4.3
CCVD	Q2484461		NAPHTHALENE	0.9600			0.9906			3.2
CCVD	Q2484461		2-NITROANILINE (O-NITROANILINE)	0.2666			0.2879			8
CCVD	Q2484461		3-NITROANILINE (M-NITROANILINE)	0.2046			0.2383			16.5
CCVD	Q2484461		4-NITROANILINE (P-NITROANILINE)	0.1961			0.1880			4.1
CCVD	Q2484461		NITROBENZENE	0.3466			0.3623			4.5
CCVD	Q2484461		N-NITROSODIPHENYLAMINE	0.5330			0.5514			3.5
CCVD	Q2484461		N-NITROSO-DI-N-PROPYLAMINE	0.8036			0.8865			10.3
CCVD	Q2484461		PHENANTHRENE	1.0738			1.1145			3.8
CCVD	Q2484461		2-PICOLINE (2-METHYLPYRIDINE)	1.2850			1.4144			10.1
CCVD	Q2484461		PYRENE	1.6708			1.7645			5.6
CCVD	Q2484461		PYRIDINE	1.3066			1.3131			0.5

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCVD	Q2484461		1,2,4,5-TETRACHLOROBENZENE	0.5592			0.5631			0.7
CCVD	Q2484461		TOLUENEDIAMINE	50.000		LIN	53.921			7.8
CCVD	Q2484461		1,2,4-TRICHLOROBENZENE	0.3479			0.3548			2
CCVD	Q2484461		BENZOIC ACID	50.000		LIN	53.842			7.7
CCVD	Q2484461		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	0.2698			0.2919			8.2
CCVD	Q2484461		2-CHLOROPHENOL	1.3283			1.4127			6.4
CCVD	Q2484461		2,4-DICHLOROPHENOL	0.2785			0.2871			3.1
CCVD	Q2484461		2,4-DIMETHYLPHENOL	0.3230			0.3400			5.3
CCVD	Q2484461		4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	0.1536			0.1613			5
CCVD	Q2484461		2,4-DINITROPHENOL	0.1635			0.1683			2.9
CCVD	Q2484461		2-METHYLPHENOL (O-CRESOL)	1.0915			1.1868			8.7
CCVD	Q2484461		4-METHYLPHENOL (P-CRESOL)	1.0600			1.1608			9.5
CCVD	Q2484461		2-NITROPHENOL	0.1841			0.1973			7.2
CCVD	Q2484461		4-NITROPHENOL	0.1110			0.1068			3.8
CCVD	Q2484461		PENTACHLOROPHENOL	0.1470			0.1489			1.3
CCVD	Q2484461		PHENOL	1.5041			1.6363			8.8
CCVD	Q2484461		2,3,4,6-TETRACHLOROPHENOL	0.2870			0.2974			3.6
CCVD	Q2484461		2,4,5-TRICHLOROPHENOL	0.3780			0.3964			4.9
CCVD	Q2484461		2,4,6-TRICHLOROPHENOL	0.3697			0.3833			3.7
CCVD	Q2484461		2-FLUOROPHENOL	1.2821			1.2742			0.6
CCVD	Q2484461		PHENOL-D5	1.6434			1.5636			4.9
CCVD	Q2484461		NITROBENZENE-D5	0.3489			0.3617			3.7
CCVD	Q2484461		2-FLUOROBIPHENYL	1.3154			1.3347			1.5
CCVD	Q2484461		2,4,6-TRIBROMOPHENOL	0.1283			0.1340			4.4
CCVD	Q2484461		TERPHENYL-D14	1.1631			1.2289			5.7
LCS	Q2482263	HLI	Analysis Date/Time: 28-Sep-11 14:19							
LCS	Q2482263	HLI	ACENAPHTHENE	100			105	ug/L	105	
LCS	Q2482263	HLI	ACENAPHTHYLENE	100			101	ug/L	101	
LCS	Q2482263	HLI	ANTHRACENE	100			101	ug/L	101	
LCS	Q2482263	HLI	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	100			102	ug/L	102	
LCS	Q2482263	HLI	BENZO(A)PYRENE	100			118	ug/L	118	
LCS	Q2482263	HLI	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	100			113	ug/L	113	
LCS	Q2482263	HLI	BENZO(G,H,I)PERYLENE	100			103	ug/L	103	
LCS	Q2482263	HLI	BENZO(K)FLUORANTHENE	100			104	ug/L	104	
LCS	Q2482263	HLI	BENZYL ALCOHOL	100			96	ug/L	96	
LCS	Q2482263	HLI	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	100		!	108	ug/L	108	
LCS	Q2482263	HLI	BIS(2-CHLOROETHOXY)METHANE	100			102	ug/L	102	
LCS	Q2482263	HLI	BIS(2-CHLOROETHYL)ETHER	100			81.1	ug/L	81.1	
LCS	Q2482263	HLI	BIS(2-CHLOROISOPROPYL)ETHER	100			99.9	ug/L	99.9	
LCS	Q2482263	HLI	BIS(2-ETHYLHEXYL)PHTHALATE	100			105	ug/L	105	
LCS	Q2482263	HLI	4-BROMODIPHENYL ETHER	100		!	115	ug/L	115	
LCS	Q2482263	HLI	CARBAZOLE	100			96.9	ug/L	96.9	
LCS	Q2482263	HLI	4-CHLOROANILINE	100			118	ug/L	118	
LCS	Q2482263	HLI	2-CHLORONAPHTHALENE	100			127	ug/L	127	
LCS	Q2482263	HLI	4-CHLOROPHENYL-PHENYLETHER	100			103	ug/L	103	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2482263	HLI	CHRYSENE	100		!	109	ug/L	109	
LCS	Q2482263	HLI	DIBENZ(A,H)ANTHRACENE	100			108	ug/L	108	
LCS	Q2482263	HLI	DIBENZOFURAN	100			106	ug/L	106	
LCS	Q2482263	HLI	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	100			91.7	ug/L	91.7	
LCS	Q2482263	HLI	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	100			89.3	ug/L	89.3	
LCS	Q2482263	HLI	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	100			89.6	ug/L	89.6	
LCS	Q2482263	HLI	3,3'-DICHLOROBENZIDINE	100			146	ug/L	146	
LCS	Q2482263	HLI	DIETHYLPHTHALATE	100			101	ug/L	101	
LCS	Q2482263	HLI	DIMETHYLPHTHALATE	100			102	ug/L	102	
LCS	Q2482263	HLI	DI-N-BUTYLPHTHALATE	100			97	ug/L	97	
LCS	Q2482263	HLI	2,4-DINITROTOLUENE	100			101	ug/L	101	
LCS	Q2482263	HLI	2,6-DINITROTOLUENE	100			107	ug/L	107	
LCS	Q2482263	HLI	DI-N-OCTYLPHTHALATE	100			110	ug/L	110	
LCS	Q2482263	HLI	FLUORANTHENE	100			91.1	ug/L	91.1	
LCS	Q2482263	HLI	FLUORENE	100			102	ug/L	102	
LCS	Q2482263	HLI	HEXACHLOROBENZENE	100			105	ug/L	105	
LCS	Q2482263	HLI	HEXACHLOROBUTADIENE	100			94.4	ug/L	94.4	
LCS	Q2482263	HLI	HEXACHLOROCYCLOPENTADIENE	100			60.6	ug/L	60.6	
LCS	Q2482263	HLI	HEXACHLOROETHANE	100			88.8	ug/L	88.8	
LCS	Q2482263	HLI	INDENO(1,2,3-CD)PYRENE	100			101	ug/L	101	
LCS	Q2482263	HLI	ISOPHORONE	100			89.9	ug/L	89.9	
LCS	Q2482263	HLI	2-METHYLNAPHTHALENE	100			119	ug/L	119	
LCS	Q2482263	HLI	NAPHTHALENE	100			102	ug/L	102	
LCS	Q2482263	HLI	2-NITROANILINE (O-NITROANILINE)	100			113	ug/L	113	
LCS	Q2482263	HLI	3-NITROANILINE (M-NITROANILINE)	100			135	ug/L	135	
LCS	Q2482263	HLI	4-NITROANILINE (P-NITROANILINE)	100			112	ug/L	112	
LCS	Q2482263	HLI	NITROBENZENE	100			98.6	ug/L	98.6	
LCS	Q2482263	HLI	N-NITROSODIPHENYLAMINE	200			210	ug/L	105	
LCS	Q2482263	HLI	N-NITROSO-DI-N-PROPYLAMINE	100		!	99.1	ug/L	99.1	
LCS	Q2482263	HLI	PHENANTHRENE	100			110	ug/L	110	
LCS	Q2482263	HLI	2-PICOLINE (2-METHYLPYRIDINE)	100			66	ug/L	66	
LCS	Q2482263	HLI	PYRENE	100			113	ug/L	113	
LCS	Q2482263	HLI	PYRIDINE	100			54.2	ug/L	54.2	
LCS	Q2482263	HLI	1,2,4,5-TETRACHLOROBENZENE	100			105	ug/L	105	
LCS	Q2482263	HLI	1,2,4-TRICHLOROBENZENE	100			95.9	ug/L	95.9	
LCS	Q2482263	HLI	BENZOIC ACID	100			37	ug/L	37	
LCS	Q2482263	HLI	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	100			101	ug/L	101	
LCS	Q2482263	HLI	2-CHLOROPHENOL	100			97.1	ug/L	97.1	
LCS	Q2482263	HLI	2,4-DICHLOROPHENOL	100			98.9	ug/L	98.9	
LCS	Q2482263	HLI	2,4-DIMETHYLPHENOL	100			85.6	ug/L	85.6	
LCS	Q2482263	HLI	2,4-DINITROPHENOL	100			107	ug/L	107	
LCS	Q2482263	HLI	2-METHYLPHENOL (O-CRESOL)	100			92.4	ug/L	92.4	
LCS	Q2482263	HLI	4-METHYLPHENOL (P-CRESOL)	100			87	ug/L	87	
LCS	Q2482263	HLI	2-NITROPHENOL	100			105	ug/L	105	
LCS	Q2482263	HLI	4-NITROPHENOL	100			45.3	ug/L	45.3	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2482263	HLI	PENTACHLOROPHENOL	100			101	ug/L	101	
LCS	Q2482263	HLI	PHENOL	100			51.4	ug/L	51.4	
LCS	Q2482263	HLI	2,3,4,6-TETRACHLOROPHENOL	100			105	ug/L	105	
LCS	Q2482263	HLI	2,4,5-TRICHLOROPHENOL	100			107	ug/L	107	
LCS	Q2482263	HLI	2,4,6-TRICHLOROPHENOL	100			106	ug/L	106	
SPI02	Q2482328	A928984	Analysis Date/Time: 28-Sep-11 15:42							
SPI02	Q2482328	A928984	ACENAPHTHENE	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	ACENAPHTHYLENE	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	ANTHRACENE	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	0	100		100	ug/L	100	
SPI02	Q2482328	A928984	BENZO(A)PYRENE	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	0	100		104	ug/L	104	
SPI02	Q2482328	A928984	BENZO(G,H,I)PERYLENE	0	100		100	ug/L	100	
SPI02	Q2482328	A928984	BENZO(K)FLUORANTHENE	0	100		99.7	ug/L	99.7	
SPI02	Q2482328	A928984	BENZYL ALCOHOL	0	100		79.6	ug/L	79.6	
SPI02	Q2482328	A928984	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	BIS(2-CHLOROETHOXY)METHANE	0	100		96.5	ug/L	96.5	
SPI02	Q2482328	A928984	BIS(2-CHLOROETHYL)ETHER	0	100		79.6	ug/L	79.6	
SPI02	Q2482328	A928984	BIS(2-CHLOROISOPROPYL)ETHER	0	100		100	ug/L	100	
SPI02	Q2482328	A928984	BIS(2-ETHYLHEXYL)PHTHALATE	0	100		99.6	ug/L	99.6	
SPI02	Q2482328	A928984	4-BROMODIPHENYL ETHER	0	100		102	ug/L	102	
SPI02	Q2482328	A928984	CARBAZOLE	0	100		99.8	ug/L	99.8	
SPI02	Q2482328	A928984	4-CHLOROANILINE	0	100		97.2	ug/L	97.2	
SPI02	Q2482328	A928984	2-CHLORONAPHTHALENE	0	100		100	ug/L	100	
SPI02	Q2482328	A928984	4-CHLOROPHENYL-PHENYLETHER	0	100		100	ug/L	100	
SPI02	Q2482328	A928984	CHRYSENE	0	100		99.2	ug/L	99.2	
SPI02	Q2482328	A928984	DIBENZ(A,H)ANTHRACENE	0	100		102	ug/L	102	
SPI02	Q2482328	A928984	DIBENZOFURAN	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	0	100		95.6	ug/L	95.6	
SPI02	Q2482328	A928984	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	0	100		95.4	ug/L	95.4	
SPI02	Q2482328	A928984	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	0	100		93.6	ug/L	93.6	
SPI02	Q2482328	A928984	3,3'-DICHLOROBENZIDINE	0	100		126	ug/L	126	
SPI02	Q2482328	A928984	DIETHYLPHTHALATE	0	100		102	ug/L	102	
SPI02	Q2482328	A928984	DIMETHYLPHTHALATE	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	DI-N-BUTYLPHTHALATE	0	100		95.7	ug/L	95.7	
SPI02	Q2482328	A928984	2,4-DINITROTOLUENE	0	100		102	ug/L	102	
SPI02	Q2482328	A928984	2,6-DINITROTOLUENE	0	100	!	117	ug/L	117	
SPI02	Q2482328	A928984	DI-N-OCTYLPHTHALATE	0	100		106	ug/L	106	
SPI02	Q2482328	A928984	FLUORANTHENE	0	100		92.7	ug/L	92.7	
SPI02	Q2482328	A928984	FLUORENE	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	HEXACHLOROBENZENE	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	HEXACHLOROBUTADIENE	0	100		95.4	ug/L	95.4	
SPI02	Q2482328	A928984	HEXACHLOROCYCLOPENTADIENE	0	100		90.2	ug/L	90.2	
SPI02	Q2482328	A928984	HEXACHLOROETHANE	0	100		95	ug/L	95	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SPI02	Q2482328	A928984	INDENO(1,2,3-CD)PYRENE	0	100		102	ug/L	102	
SPI02	Q2482328	A928984	ISOPHORONE	0	100		99.8	ug/L	99.8	
SPI02	Q2482328	A928984	2-METHYLNAPHTHALENE	0	100		115	ug/L	115	
SPI02	Q2482328	A928984	NAPHTHALENE	0	100		98.4	ug/L	98.4	
SPI02	Q2482328	A928984	2-NITROANILINE (O-NITROANILINE)	0	100		108	ug/L	108	
SPI02	Q2482328	A928984	3-NITROANILINE (M-NITROANILINE)	0	100		119	ug/L	119	
SPI02	Q2482328	A928984	4-NITROANILINE (P-NITROANILINE)	0	100		112	ug/L	112	
SPI02	Q2482328	A928984	NITROBENZENE	0	100		95.6	ug/L	95.6	
SPI02	Q2482328	A928984	N-NITROSODIPHENYLAMINE	0	100		105	ug/L	105	
SPI02	Q2482328	A928984	N-NITROSO-DI-N-PROPYLAMINE	0	100		98.2	ug/L	98.2	
SPI02	Q2482328	A928984	PHENANTHRENE	0	100		102	ug/L	102	
SPI02	Q2482328	A928984	2-PICOLINE (2-METHYLPYRIDINE)	0	100		44.5	ug/L	44.5	
SPI02	Q2482328	A928984	PYRENE	0	100		103	ug/L	103	
SPI02	Q2482328	A928984	PYRIDINE	0	100		38.8	ug/L	38.8	
SPI02	Q2482328	A928984	1,2,4,5-TETRACHLOROBENZENE	0	100		68.7	ug/L	68.7	
SPI02	Q2482328	A928984	1,2,4-TRICHLOROBENZENE	0	100		96.2	ug/L	96.2	
SPI02	Q2482328	A928984	BENZOIC ACID	0	100		34.8	ug/L	34.8	
SPI02	Q2482328	A928984	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	0	100		103	ug/L	103	
SPI02	Q2482328	A928984	2-CHLOROPHENOL	0	100		96.7	ug/L	96.7	
SPI02	Q2482328	A928984	2,4-DICHLOROPHENOL	0	100		97.2	ug/L	97.2	
SPI02	Q2482328	A928984	2,4-DIMETHYLPHENOL	0	100		72.8	ug/L	72.8	
SPI02	Q2482328	A928984	4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	0	100		107	ug/L	107	
SPI02	Q2482328	A928984	2,4-DINITROPHENOL	0	100		109	ug/L	109	
SPI02	Q2482328	A928984	2-METHYLPHENOL (O-CRESOL)	0	100		84.1	ug/L	84.1	
SPI02	Q2482328	A928984	4-METHYLPHENOL (P-CRESOL)	0	100		78.2	ug/L	78.2	
SPI02	Q2482328	A928984	2-NITROPHENOL	0	100		103	ug/L	103	
SPI02	Q2482328	A928984	4-NITROPHENOL	0	100		42.6	ug/L	42.6	
SPI02	Q2482328	A928984	PENTACHLOROPHENOL	0	100		105	ug/L	105	
SPI02	Q2482328	A928984	PHENOL	0	100		45.5	ug/L	45.5	
SPI02	Q2482328	A928984	2,3,4,6-TETRACHLOROPHENOL	0	100		107	ug/L	107	
SPI02	Q2482328	A928984	2,4,5-TRICHLOROPHENOL	0	100		102	ug/L	102	
SPI02	Q2482328	A928984	2,4,6-TRICHLOROPHENOL	0	100		104	ug/L	104	
DPS02	Q2482329	A928984	Analysis Date/Time: 28-Sep-11 16:20							
DPS02	Q2482329	A928984	ACENAPHTHENE	0	100		95	ug/L	95	5.6
DPS02	Q2482329	A928984	ACENAPHTHYLENE	0	100		94.5	ug/L	94.5	6.4
DPS02	Q2482329	A928984	ANTHRACENE	0	100		93.7	ug/L	93.7	7.9
DPS02	Q2482329	A928984	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	0	100		94.9	ug/L	94.9	5.6
DPS02	Q2482329	A928984	BENZO(A)PYRENE	0	100		96	ug/L	96	5.6
DPS02	Q2482329	A928984	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	0	100		101	ug/L	100.9	2.6
DPS02	Q2482329	A928984	BENZO(G,H,I)PERYLENE	0	100		96.3	ug/L	96.3	3.9
DPS02	Q2482329	A928984	BENZO(K)FLUORANTHENE	0	100		93	ug/L	93	7
DPS02	Q2482329	A928984	BENZYL ALCOHOL	0	100		80.3	ug/L	80.3	0.9
DPS02	Q2482329	A928984	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	0	100		95.2	ug/L	95.2	6.2
DPS02	Q2482329	A928984	BIS(2-CHLOROETHOXY)METHANE	0	100		93	ug/L	93	3.7

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DPS02	Q2482329	A928984	BIS(2-CHLOROETHYL)ETHER	0	100		77	ug/L	77	3.3
DPS02	Q2482329	A928984	BIS(2-CHLOROISOPROPYL)ETHER	0	100		95.1	ug/L	95.1	5.4
DPS02	Q2482329	A928984	BIS(2-ETHYLHEXYL)PHTHALATE	0	100		94.3	ug/L	94.3	5.5
DPS02	Q2482329	A928984	4-BROMODIPHENYL ETHER	0	100		97	ug/L	97	5.1
DPS02	Q2482329	A928984	CARBAZOLE	0	100		92.4	ug/L	92.4	7.7
DPS02	Q2482329	A928984	4-CHLOROANILINE	0	100		92.3	ug/L	92.3	5.2
DPS02	Q2482329	A928984	2-CHLORONAPHTHALENE	0	100		94.9	ug/L	94.9	5.4
DPS02	Q2482329	A928984	4-CHLOROPHENYL-PHENYLETHER	0	100		93.7	ug/L	93.7	7
DPS02	Q2482329	A928984	CHRYSENE	0	100		94.2	ug/L	94.2	5.2
DPS02	Q2482329	A928984	DIBENZ(A,H)ANTHRACENE	0	100		96.4	ug/L	96.4	5.4
DPS02	Q2482329	A928984	DIBENZOFURAN	0	100		94.3	ug/L	94.3	6.9
DPS02	Q2482329	A928984	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	0	100		91.4	ug/L	91.4	4.5
DPS02	Q2482329	A928984	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	0	100		90.5	ug/L	90.5	5.3
DPS02	Q2482329	A928984	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	0	100		89	ug/L	89	5
DPS02	Q2482329	A928984	3,3'-DICHLOROBENZIDINE	0	100		105	ug/L	105.3	17.7
DPS02	Q2482329	A928984	DIETHYLPHTHALATE	0	100		93.3	ug/L	93.3	8.7
DPS02	Q2482329	A928984	DIMETHYLPHTHALATE	0	100		94.2	ug/L	94.2	7.2
DPS02	Q2482329	A928984	DI-N-BUTYLPHTHALATE	0	100		88	ug/L	88	8.4
DPS02	Q2482329	A928984	2,4-DINITROTOLUENE	0	100		92	ug/L	92	9.9
DPS02	Q2482329	A928984	2,6-DINITROTOLUENE	0	100		101	ug/L	101.0	17.3
DPS02	Q2482329	A928984	DI-N-OCTYLPHTHALATE	0	100		101	ug/L	101	4.8
DPS02	Q2482329	A928984	FLUORANTHENE	0	100		84.7	ug/L	84.7	9
DPS02	Q2482329	A928984	FLUORENE	0	100		93.3	ug/L	93.3	7.7
DPS02	Q2482329	A928984	HEXACHLOROBENZENE	0	100		95.1	ug/L	95.1	6.2
DPS02	Q2482329	A928984	HEXACHLOROBUTADIENE	0	100		90.6	ug/L	90.6	5.2
DPS02	Q2482329	A928984	HEXACHLOROCYCLOPENTADIENE	0	100		87	ug/L	87	3.6
DPS02	Q2482329	A928984	HEXACHLOROETHANE	0	100		91	ug/L	91	4.3
DPS02	Q2482329	A928984	INDENO(1,2,3-CD)PYRENE	0	100		96.3	ug/L	96.3	5.9
DPS02	Q2482329	A928984	ISOPHORONE	0	100		92.1	ug/L	92.1	8
DPS02	Q2482329	A928984	2-METHYLNAPHTHALENE	0	100		109	ug/L	108.7	5.5
DPS02	Q2482329	A928984	NAPHTHALENE	0	100		93.7	ug/L	93.7	4.9
DPS02	Q2482329	A928984	2-NITROANILINE (O-NITROANILINE)	0	100		101	ug/L	101.3	6.4
DPS02	Q2482329	A928984	3-NITROANILINE (M-NITROANILINE)	0	100		108	ug/L	108.4	9.2
DPS02	Q2482329	A928984	4-NITROANILINE (P-NITROANILINE)	0	100		97.8	ug/L	97.8	13.7
DPS02	Q2482329	A928984	NITROBENZENE	0	100		91.9	ug/L	91.9	3.9
DPS02	Q2482329	A928984	N-NITROSODIPHENYLAMINE	0	100		98.9	ug/L	98.9	5.7
DPS02	Q2482329	A928984	N-NITROSO-DI-N-PROPYLAMINE	0	100		94.3	ug/L	94.3	4.1
DPS02	Q2482329	A928984	PHENANTHRENE	0	100		96	ug/L	96	6.5
DPS02	Q2482329	A928984	2-PICOLINE (2-METHYLPYRIDINE)	0	100		46.4	ug/L	46.4	4.2
DPS02	Q2482329	A928984	PYRENE	0	100		97.8	ug/L	97.8	5
DPS02	Q2482329	A928984	PYRIDINE	0	100		39.1	ug/L	39.1	0.8
DPS02	Q2482329	A928984	1,2,4,5-TETRACHLOROBENZENE	0	100		65.8	ug/L	65.8	4.3
DPS02	Q2482329	A928984	1,2,4-TRICHLOROBENZENE	0	100		91.9	ug/L	91.9	4.6
DPS02	Q2482329	A928984	BENZOIC ACID	0	100		40.3	ug/L	40.3	14.6
DPS02	Q2482329	A928984	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	0	100		97.7	ug/L	97.7	5.1

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DPS02	Q2482329	A928984	2-CHLOROPHENOL	0	100		93.2	ug/L	93.2	3.7
DPS02	Q2482329	A928984	2,4-DICHLOROPHENOL	0	100		94.6	ug/L	94.6	2.7
DPS02	Q2482329	A928984	2,4-DIMETHYLPHENOL	0	100		73	ug/L	73	0.3
DPS02	Q2482329	A928984	4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	0	100		99.9	ug/L	99.9	6.8
DPS02	Q2482329	A928984	2,4-DINITROPHENOL	0	100		97.7	ug/L	97.7	10.9
DPS02	Q2482329	A928984	2-METHYLPHENOL (O-CRESOL)	0	100		83.7	ug/L	83.7	0.5
DPS02	Q2482329	A928984	4-METHYLPHENOL (P-CRESOL)	0	100		79.9	ug/L	79.9	2.2
DPS02	Q2482329	A928984	2-NITROPHENOL	0	100		99.3	ug/L	99.3	3.3
DPS02	Q2482329	A928984	4-NITROPHENOL	0	100		46.5	ug/L	46.5	8.8
DPS02	Q2482329	A928984	PENTACHLOROPHENOL	0	100		97.3	ug/L	97.3	7.3
DPS02	Q2482329	A928984	PHENOL	0	100		50.7	ug/L	50.7	10.8
DPS02	Q2482329	A928984	2,3,4,6-TETRACHLOROPHENOL	0	100		96.3	ug/L	96.3	10.3
DPS02	Q2482329	A928984	2,4,5-TRICHLOROPHENOL	0	100		94.5	ug/L	94.5	7.4
DPS02	Q2482329	A928984	2,4,6-TRICHLOROPHENOL	0	100		98.8	ug/L	98.8	5.3
SAMPLE	A929121		Analysis Date/Time: 28-Sep-11 18:14							
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							

Q2482266 Value reported for analytes calibrated by linear (LIN) or
Q2482266 Value reported for analytes calibrated by linear (LIN) or
Q2482266 quadratic (QDR) equations is r2 (Coef. of Determination).
Q2482266 quadratic (QDR) equations is r2 (Coef. of Determination).
Q2482267 *Outside method limits.
Q2482267 *Outside method limits.
Q2484461 Value reported for analytes calibrated by linear (LIN) or quadratic (QDR)
Q2484461 Value reported for analytes calibrated by linear (LIN) or quadratic (QDR)
Q2484461 equations is concentration.
Q2484461 equations is concentration.

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11 Instrument: GC/MS VOA
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2468569		Analysis Date/Time: 11-Aug-11 08:10							
CAL01	Q2468569		BENZENE	1.0496						3.6
CAL01	Q2468569		BROMOBENZENE	1.3705						6.4
CAL01	Q2468569		BROMOCHLOROMETHANE	0.1275						6.6
CAL01	Q2468569		BROMODICHLOROMETHANE	0.3326						6.6
CAL01	Q2468569		BROMOFORM	0.4786						11.6
CAL01	Q2468569		BROMOMETHANE	0.1575						14.5
CAL01	Q2468569		N-BUTYLBENZENE	1.5442						6.9
CAL01	Q2468569		SEC-BUTYLBENZENE	3.7462						5.6
CAL01	Q2468569		TERT-BUTYLBENZENE	1.6365						3.5
CAL01	Q2468569		CARBON TETRACHLORIDE	0.3281						7.4
CAL01	Q2468569		CHLOROBENZENE	1.9157						3.8
CAL01	Q2468569		DIBROMOCHLOROMETHANE	0.6482						8.1
CAL01	Q2468569		CHLOROETHANE	0.1688						5.8

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2468569		CHLOROFORM	0.4880						10.1
CAL01	Q2468569		CHLOROMETHANE	0.2534						6.6
CAL01	Q2468569		2-CHLOROTOLUENE (O-CHLOROTOLUENE)	0.8137						4.9
CAL01	Q2468569		4-CHLOROTOLUENE (P-CHLOROTOLUENE)	0.8323						5.7
CAL01	Q2468569		1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.2014						8.6
CAL01	Q2468569		1,2-DIBROMOETHANE (EDB)	0.2498						7
CAL01	Q2468569		DIBROMOMETHANE	0.1644						3.6
CAL01	Q2468569		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	1.6073						9.2
CAL01	Q2468569		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	1.6647						8.4
CAL01	Q2468569		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	1.7206						8.8
CAL01	Q2468569		DICHLORODIFLUOROMETHANE	0.1845						5.2
CAL01	Q2468569		1,1-DICHLOROETHANE	0.4521						2.2
CAL01	Q2468569		1,2-DICHLOROETHANE	0.3914						3.1
CAL01	Q2468569		1,1-DICHLOROETHENE	0.1977						4
CAL01	Q2468569		CIS-1,2-DICHLOROETHENE	0.2673						3.2
CAL01	Q2468569		TRANS-1,2-DICHLOROETHENE	0.2383						3.1
CAL01	Q2468569		1,2-DICHLOROPROPANE	0.2554						3.4
CAL01	Q2468569		1,3-DICHLOROPROPANE	1.1598						4.8
CAL01	Q2468569		2,2-DICHLOROPROPANE	0.2832						7.2
CAL01	Q2468569		1,1-DICHLOROPROPENE	0.1217						7.2
CAL01	Q2468569		ETHYL BENZENE	1.0535						3.3
CAL01	Q2468569		HEXACHLOROBUTADIENE	0.6139						2.6
CAL01	Q2468569		ISOPROPYLBENZENE (CUMENE)	3.0181						4.4
CAL01	Q2468569		4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	2.9449						6
CAL01	Q2468569		DICHLOROMETHANE (METHYLENE CHLORIDE)			LIN				1.000
CAL01	Q2468569		METHYL ETHYL KETONE	0.0373						10.6
CAL01	Q2468569		NAPHTHALENE	3.0045						6.6
CAL01	Q2468569		N-PROPYLBENZENE	0.4236						3.2
CAL01	Q2468569		STYRENE	2.2472						5.5
CAL01	Q2468569		1,1,1,2-TETRACHLOROETHANE	0.6564						6.6
CAL01	Q2468569		1,1,2,2-TETRACHLOROETHANE	1.0558						13.8
CAL01	Q2468569		TETRACHLOROETHENE	0.7761						10.3
CAL01	Q2468569		TOLUENE	1.0687						6.1
CAL01	Q2468569		1,2,3-TRICHLOROBENZENE	1.1110						8.6
CAL01	Q2468569		1,2,4-TRICHLOROBENZENE	1.1896						8.8
CAL01	Q2468569		1,1,1-TRICHLOROETHANE	0.3840						4.6
CAL01	Q2468569		1,1,2-TRICHLOROETHANE	0.2369						5.8
CAL01	Q2468569		TRICHLOROETHENE	0.2547						4.3
CAL01	Q2468569		TRICHLOROFLUOROMETHANE	0.3682						3.4
CAL01	Q2468569		1,2,3-TRICHLOROPROPANE			LIN				1.000
CAL01	Q2468569		1,2,4-TRIMETHYLBENZENE	3.0615						3
CAL01	Q2468569		1,3,5-TRIMETHYLBENZENE	3.0467						3.5
CAL01	Q2468569		VINYL CHLORIDE	0.2783						6.4

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2468569		N-HEXANE	0.3849						6.5
CAL01	Q2468569		O-XYLENE	1.3385						3.5
CAL01	Q2468569		M/P-XYLENE	1.3569						4.1
CAL01	Q2468569		DICHLOROETHANE-D4	0.3244						2.7
CAL01	Q2468569		TOLUENE-D8	0.9768						3.2
CAL01	Q2468569		4-BROMOFLUOROBENZENE	0.9115						3.2
CAL01	Q2468569		DIBROMOFLUOROMETHANE	0.2323						1.7
ICV01	Q2468570	METHOD 826	Analysis Date/Time: 11-Aug-11 12:13							
ICV01	Q2468570	METHOD 826	BENZENE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	BROMOBENZENE	10			9.9	ug/L	99	
ICV01	Q2468570	METHOD 826	BROMOCHLOROMETHANE	10			10.5	ug/L	105	
ICV01	Q2468570	METHOD 826	BROMODICHLOROMETHANE	10			10.4	ug/L	104	
ICV01	Q2468570	METHOD 826	BROMOFORM	10			9.64	ug/L	96.4	
ICV01	Q2468570	METHOD 826	BROMOMETHANE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	N-BUTYLBENZENE	10			10.3	ug/L	103	
ICV01	Q2468570	METHOD 826	SEC-BUTYLBENZENE	10			10	ug/L	100	
ICV01	Q2468570	METHOD 826	TERT-BUTYLBENZENE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	CARBON TETRACHLORIDE	10			10.6	ug/L	106	
ICV01	Q2468570	METHOD 826	CHLOROBENZENE	10			10	ug/L	100	
ICV01	Q2468570	METHOD 826	DIBROMOCHLOROMETHANE	10			10.4	ug/L	104	
ICV01	Q2468570	METHOD 826	CHLOROETHANE	10			10.7	ug/L	107	
ICV01	Q2468570	METHOD 826	CHLOROFORM	10			10.3	ug/L	103	
ICV01	Q2468570	METHOD 826	CHLOROMETHANE	10			9.99	ug/L	99.9	
ICV01	Q2468570	METHOD 826	2-CHLOROTOLUENE (O-CHLOROTOLUENE)	10			9.87	ug/L	98.7	
ICV01	Q2468570	METHOD 826	4-CHLOROTOLUENE (P-CHLOROTOLUENE)	10			10.1	ug/L	101	
ICV01	Q2468570	METHOD 826	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	10			10.1	ug/L	101	
ICV01	Q2468570	METHOD 826	1,2-DIBROMOETHANE (EDB)	10			10.7	ug/L	107	
ICV01	Q2468570	METHOD 826	DIBROMOMETHANE	10			10.6	ug/L	106	
ICV01	Q2468570	METHOD 826	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	10			10.1	ug/L	101	
ICV01	Q2468570	METHOD 826	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	10			9.94	ug/L	99.4	
ICV01	Q2468570	METHOD 826	DICHLORODIFLUOROMETHANE	10			9.68	ug/L	96.8	
ICV01	Q2468570	METHOD 826	1,1-DICHLOROETHANE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	1,2-DICHLOROETHANE	10			10.5	ug/L	105	

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2468570	METHOD 826	1,1-DICHLOROETHENE	10			10.9	ug/L	109	
ICV01	Q2468570	METHOD 826	CIS-1,2-DICHLOROETHENE	10			10.6	ug/L	106	
ICV01	Q2468570	METHOD 826	TRANS-1,2-DICHLOROETHENE	10			10.7	ug/L	107	
ICV01	Q2468570	METHOD 826	1,2-DICHLOROPROPANE	10			9.93	ug/L	99.3	
ICV01	Q2468570	METHOD 826	1,3-DICHLOROPROPANE	10			10.3	ug/L	103	
ICV01	Q2468570	METHOD 826	2,2-DICHLOROPROPANE	10			10.8	ug/L	108	
ICV01	Q2468570	METHOD 826	1,1-DICHLOROPROPENE	10			10.6	ug/L	106	
ICV01	Q2468570	METHOD 826	ETHYL BENZENE	10			10.1	ug/L	101	
ICV01	Q2468570	METHOD 826	HEXACHLOROBUTADIENE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	ISOPROPYLBENZENE (CUMENE)	10			11.6	ug/L	116	
ICV01	Q2468570	METHOD 826	4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	10			10.4	ug/L	104	
ICV01	Q2468570	METHOD 826	DICHLOROMETHANE (METHYLENE CHLORIDE)	10			9.75	ug/L	97.5	
ICV01	Q2468570	METHOD 826	METHYL ETHYL KETONE	50			50.8	ug/L	101.6	
ICV01	Q2468570	METHOD 826	NAPHTHALENE	10			9.91	ug/L	99.1	
ICV01	Q2468570	METHOD 826	N-PROPYLBENZENE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	STYRENE	10			10.3	ug/L	103	
ICV01	Q2468570	METHOD 826	1,1,1,2-TETRACHLOROETHANE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	1,1,2,2-TETRACHLOROETHANE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	TETRACHLOROETHENE	10			9.83	ug/L	98.3	
ICV01	Q2468570	METHOD 826	TOLUENE	10			10.3	ug/L	103	
ICV01	Q2468570	METHOD 826	1,2,3-TRICHLOROBENZENE	10			9.73	ug/L	97.3	
ICV01	Q2468570	METHOD 826	1,2,4-TRICHLOROBENZENE	10			10	ug/L	100	
ICV01	Q2468570	METHOD 826	1,1,1-TRICHLOROETHANE	10			10.1	ug/L	101	
ICV01	Q2468570	METHOD 826	1,1,2-TRICHLOROETHANE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	TRICHLOROETHENE	10			10.6	ug/L	106	
ICV01	Q2468570	METHOD 826	TRICHLOROFLUOROMETHANE	10			9.61	ug/L	96.1	
ICV01	Q2468570	METHOD 826	1,2,3-TRICHLOROPROPANE	10			10.7	ug/L	107	
ICV01	Q2468570	METHOD 826	1,2,4-TRIMETHYLBENZENE	10			9.78	ug/L	97.8	
ICV01	Q2468570	METHOD 826	1,3,5-TRIMETHYLBENZENE	10			9.83	ug/L	98.3	
ICV01	Q2468570	METHOD 826	VINYL CHLORIDE	10			10.3	ug/L	103	
ICV01	Q2468570	METHOD 826	METHYL-T-BUTYL ETHER (MTBE)	10			9.7	ug/L	97	
ICV01	Q2468570	METHOD	N-HEXANE	10			10.4	ug/L	104	

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
		826								
ICV01	Q2468570	METHOD 826	O-XYLENE	10			10.1	ug/L	101	
ICV01	Q2468570	METHOD 826	M/P-XYLENE	20			20	ug/L	100	
CCVD	Q2483284		Analysis Date/Time: 24-Sep-11 08:08							
CCVD	Q2483284		BENZENE	1.0496			1.1056			5.3
CCVD	Q2483284		BROMOBENZENE	1.3705			1.4252			4
CCVD	Q2483284		BROMOCHLOROMETHANE	0.1275			0.1437			12.7
CCVD	Q2483284		BROMODICHLOROMETHANE	0.3326			0.3257			2.1
CCVD	Q2483284		BROMOFORM	0.4786			0.5190			8.4
CCVD	Q2483284		BROMOMETHANE	0.1575			0.1463			7.1
CCVD	Q2483284		N-BUTYLBENZENE	1.5442			1.6021			3.7
CCVD	Q2483284		SEC-BUTYLBENZENE	3.7462			3.8353			2.4
CCVD	Q2483284		TERT-BUTYLBENZENE	1.6365			1.5894			2.9
CCVD	Q2483284		CARBON TETRACHLORIDE	0.3281			0.3326			1.4
CCVD	Q2483284		CHLOROBENZENE	1.9157			2.0830			8.7
CCVD	Q2483284		DIBROMOCHLOROMETHANE	0.6482			0.6867			5.9
CCVD	Q2483284		CHLOROETHANE	0.1688			0.1635			3.1
CCVD	Q2483284		CHLOROFORM	0.4880			0.4881			0
CCVD	Q2483284		CHLOROMETHANE	0.2534			0.2246			11.4
CCVD	Q2483284		2-CHLOROTOLUENE (O-CHLOROTOLUENE)	0.8137			0.9242			13.6
CCVD	Q2483284		4-CHLOROTOLUENE (P-CHLOROTOLUENE)	0.8323			0.8993			8
CCVD	Q2483284		1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.2014			0.2120			5.3
CCVD	Q2483284		1,2-DIBROMOETHANE (EDB)	0.2498			0.2615			4.7
CCVD	Q2483284		DIBROMOMETHANE	0.1644			0.1734			5.5
CCVD	Q2483284		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	1.6073			1.6816			4.6
CCVD	Q2483284		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	1.6647			1.8092			8.7
CCVD	Q2483284		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	1.7206			1.8768			9.1
CCVD	Q2483284		DICHLORODIFLUOROMETHANE	0.1845			0.1628			11.8
CCVD	Q2483284		1,1-DICHLOROETHANE	0.4521			0.4699			3.9
CCVD	Q2483284		1,2-DICHLOROETHANE	0.3914			0.4040			3.2
CCVD	Q2483284		1,1-DICHLOROETHENE	0.1977			0.2113			6.9
CCVD	Q2483284		CIS-1,2-DICHLOROETHENE	0.2673			0.2765			3.4
CCVD	Q2483284		TRANS-1,2-DICHLOROETHENE	0.2383			0.2546			6.8
CCVD	Q2483284		1,2-DICHLOROPROPANE	0.2554			0.2551			0.1
CCVD	Q2483284		1,3-DICHLOROPROPANE	1.1598			1.2785			10.2
CCVD	Q2483284		2,2-DICHLOROPROPANE	0.2832			0.2362			16.6
CCVD	Q2483284		1,1-DICHLOROPROPENE	0.1217			0.1255			3.1
CCVD	Q2483284		ETHYL BENZENE	1.0535			1.1333			7.6
CCVD	Q2483284		HEXACHLOROBUTADIENE	0.6139			0.6474			5.5
CCVD	Q2483284		ISOPROPYLBENZENE (CUMENE)	3.0181			3.0584			1.3
CCVD	Q2483284		4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	2.9449			3.0595			3.9
CCVD	Q2483284		DICHLOROMETHANE (METHYLENE CHLORIDE)	10		LIN	9.67			3.3

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCVD	Q2483284		METHYL ETHYL KETONE	0.0373			0.0396			6.2
CCVD	Q2483284		NAPHTHALENE	3.0045			2.8428			5.4
CCVD	Q2483284		N-PROPYLBENZENE	0.4236			0.4522			6.8
CCVD	Q2483284		STYRENE	2.2472			2.3730			5.6
CCVD	Q2483284		1,1,1,2-TETRACHLOROETHANE	0.6564			0.7361			12.1
CCVD	Q2483284		1,1,2,2-TETRACHLOROETHANE	1.0558			1.1614			10
CCVD	Q2483284		TETRACHLOROETHENE	0.7761			0.8493			9.4
CCVD	Q2483284		TOLUENE	1.0687			1.1087			3.7
CCVD	Q2483284		1,2,3-TRICHLOROBENZENE	1.1110			1.1034			0.7
CCVD	Q2483284		1,2,4-TRICHLOROBENZENE	1.1896			1.1481			3.5
CCVD	Q2483284		1,1,1-TRICHLOROETHANE	0.3840			0.3782			1.5
CCVD	Q2483284		1,1,2-TRICHLOROETHANE	0.2369			0.2513			6.1
CCVD	Q2483284		TRICHLOROETHENE	0.2547			0.2803			10.1
CCVD	Q2483284		TRICHLOROFLUOROMETHANE	0.3682			0.3488			5.3
CCVD	Q2483284		1,2,3-TRICHLOROPROPANE	10		LIN	11.60			16
CCVD	Q2483284		1,2,4-TRIMETHYLBENZENE	3.0615			3.2446			6
CCVD	Q2483284		1,3,5-TRIMETHYLBENZENE	3.0467			3.2136			5.5
CCVD	Q2483284		VINYL CHLORIDE	0.2783			0.2456			11.7
CCVD	Q2483284		N-HEXANE	0.3849			0.3414			11.3
CCVD	Q2483284		O-XYLENE	1.3385			1.3852			3.5
CCVD	Q2483284		M/P-XYLENE	1.3569			1.4590			7.5
CCVD	Q2483284		DICHLOROETHANE-D4	0.3244			0.3236			0.2
CCVD	Q2483284		TOLUENE-D8	0.9768			0.9746			0.2
CCVD	Q2483284		4-BROMOFLUOROBENZENE	0.9115			0.9846			8
CCVD	Q2483284		DIBROMOFLUOROMETHANE	0.2323			0.2313			0.4
BLA01	Q2483285		Analysis Date/Time: 24-Sep-11 08:36							
BLA01	Q2483285		BENZENE			BDL	0.38	ug/L		
BLA01	Q2483285		BROMOBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		BROMOCHLOROMETHANE			BDL	0.38	ug/L		
BLA01	Q2483285		BROMODICHLOROMETHANE			BDL	0.40	ug/L		
BLA01	Q2483285		BROMOFORM			BDL	0.26	ug/L		
BLA01	Q2483285		BROMOMETHANE			BDL	0.67	ug/L		
BLA01	Q2483285		N-BUTYLBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		SEC-BUTYLBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		TERT-BUTYLBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		CARBON TETRACHLORIDE			BDL	0.42	ug/L		
BLA01	Q2483285		CHLOROBENZENE			BDL	0.43	ug/L		
BLA01	Q2483285		DIBROMOCHLOROMETHANE			BDL	0.30	ug/L		
BLA01	Q2483285		CHLOROETHANE			BDL	0.43	ug/L		
BLA01	Q2483285		CHLOROFORM			BDL	0.40	ug/L		
BLA01	Q2483285		CHLOROMETHANE			BDL	1.0	ug/L		
BLA01	Q2483285		2-CHLOROTOLUENE (O-CHLOROTOLUENE)			BDL	1.0	ug/L		
BLA01	Q2483285		4-CHLOROTOLUENE (P-CHLOROTOLUENE)			BDL	1.0	ug/L		
BLA01	Q2483285		1,2-DIBROMO-3-CHLOROPROPANE (DBCP)			BDL	1.0	ug/L		
BLA01	Q2483285		1,2-DIBROMOETHANE (EDB)			BDL	1.0	ug/L		
BLA01	Q2483285		DIBROMOMETHANE			BDL	0.33	ug/L		

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R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA01	Q2483285		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)			BDL	0.36	ug/L		
BLA01	Q2483285		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)			BDL	1.0	ug/L		
BLA01	Q2483285		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)			BDL	0.40	ug/L		
BLA01	Q2483285		DICHLORODIFLUOROMETHANE			BDL	1.0	ug/L		
BLA01	Q2483285		1,1-DICHLOROETHANE			BDL	0.40	ug/L		
BLA01	Q2483285		1,2-DICHLOROETHANE			BDL	0.38	ug/L		
BLA01	Q2483285		1,1-DICHLOROETHENE			BDL	0.44	ug/L		
BLA01	Q2483285		CIS-1,2-DICHLOROETHENE			BDL	0.40	ug/L		
BLA01	Q2483285		TRANS-1,2-DICHLOROETHENE			BDL	0.36	ug/L		
BLA01	Q2483285		1,2-DICHLOROPROPANE			BDL	0.41	ug/L		
BLA01	Q2483285		1,3-DICHLOROPROPANE			BDL	1.0	ug/L		
BLA01	Q2483285		2,2-DICHLOROPROPANE			BDL	1.0	ug/L		
BLA01	Q2483285		1,1-DICHLOROPROPENE			BDL	1.0	ug/L		
BLA01	Q2483285		ETHYL BENZENE			BDL	0.49	ug/L		
BLA01	Q2483285		HEXACHLOROBUTADIENE			BDL	1.0	ug/L		
BLA01	Q2483285		ISOPROPYLBENZENE (CUMENE)			BDL	1.0	ug/L		
BLA01	Q2483285		4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)			BDL	1.0	ug/L		
BLA01	Q2483285		DICHLOROMETHANE (METHYLENE CHLORIDE)			BDL	1.0	ug/L		
BLA01	Q2483285		METHYL ETHYL KETONE			BDL	5.0	ug/L		
BLA01	Q2483285		NAPHTHALENE			BDL	1.0	ug/L		
BLA01	Q2483285		N-PROPYLBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		STYRENE			BDL	0.44	ug/L		
BLA01	Q2483285		1,1,1,2-TETRACHLOROETHANE			BDL	0.36	ug/L		
BLA01	Q2483285		1,1,2,2-TETRACHLOROETHANE			BDL	0.26	ug/L		
BLA01	Q2483285		TETRACHLOROETHENE			BDL	0.84	ug/L		
BLA01	Q2483285		TOLUENE			BDL	0.42	ug/L		
BLA01	Q2483285		1,2,3-TRICHLOROBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		1,2,4-TRICHLOROBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		1,1,1-TRICHLOROETHANE			BDL	0.41	ug/L		
BLA01	Q2483285		1,1,2-TRICHLOROETHANE			BDL	0.32	ug/L		
BLA01	Q2483285		TRICHLOROETHENE			BDL	0.45	ug/L		
BLA01	Q2483285		TRICHLOROFLUOROMETHANE			BDL	0.56	ug/L		
BLA01	Q2483285		1,2,3-TRICHLOROPROPANE			BDL	0.34	ug/L		
BLA01	Q2483285		1,2,4-TRIMETHYLBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		1,3,5-TRIMETHYLBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		VINYL CHLORIDE			BDL	0.44	ug/L		
BLA01	Q2483285		METHYL-T-BUTYL ETHER (MTBE)			BDL	1.0	ug/L		
BLA01	Q2483285		N-HEXANE			BDL	1.0	ug/L		
BLA01	Q2483285		O-XYLENE			BDL	0.42	ug/L		
BLA01	Q2483285		M/P-XYLENE			BDL	0.80	ug/L		
BLA01	Q2483285		DICHLOROETHANE-D4						103	
BLA01	Q2483285		TOLUENE-D8						91	
BLA01	Q2483285		4-BROMOFLUOROBENZENE						96	
BLA01	Q2483285		DIBROMOFLUOROMETHANE						97	
LCS01	Q2483290	METHOD	Analysis Date/Time: 24-Sep-11 09:05							

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
		826								
LCS01	Q2483290	METHOD 826	BENZENE	10			10.5	ug/L	105	
LCS01	Q2483290	METHOD 826	BROMOBENZENE	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD 826	BROMOCHLOROMETHANE	10			11	ug/L	110	
LCS01	Q2483290	METHOD 826	BROMODICHLOROMETHANE	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD 826	BROMOFORM	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD 826	BROMOMETHANE	10			8.89	ug/L	88.9	
LCS01	Q2483290	METHOD 826	N-BUTYLBENZENE	10			9.93	ug/L	99.3	
LCS01	Q2483290	METHOD 826	SEC-BUTYLBENZENE	10			10.1	ug/L	101	
LCS01	Q2483290	METHOD 826	TERT-BUTYLBENZENE	10			9.87	ug/L	98.7	
LCS01	Q2483290	METHOD 826	CARBON TETRACHLORIDE	10			9.57	ug/L	95.7	
LCS01	Q2483290	METHOD 826	CHLOROBENZENE	10			10.7	ug/L	107	
LCS01	Q2483290	METHOD 826	DIBROMOCHLOROMETHANE	10			10.9	ug/L	109	
LCS01	Q2483290	METHOD 826	CHLOROETHANE	10			9.69	ug/L	96.9	
LCS01	Q2483290	METHOD 826	CHLOROFORM	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD 826	CHLOROMETHANE	10			8.87	ug/L	88.7	
LCS01	Q2483290	METHOD 826	2-CHLOROTOLUENE (O-CHLOROTOLUENE)	10			10.7	ug/L	107	
LCS01	Q2483290	METHOD 826	4-CHLOROTOLUENE (P-CHLOROTOLUENE)	10			11	ug/L	110	
LCS01	Q2483290	METHOD 826	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	10			9.5	ug/L	95	
LCS01	Q2483290	METHOD 826	1,2-DIBROMOETHANE (EDB)	10			10.5	ug/L	105	
LCS01	Q2483290	METHOD 826	DIBROMOMETHANE	10			10.3	ug/L	103	
LCS01	Q2483290	METHOD 826	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD 826	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	10			10.8	ug/L	108	
LCS01	Q2483290	METHOD 826	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	10			10.9	ug/L	109	
LCS01	Q2483290	METHOD 826	DICHLORODIFLUOROMETHANE	10			7.11	ug/L	71.1	
LCS01	Q2483290	METHOD 826	1,1-DICHLOROETHANE	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD 826	1,2-DICHLOROETHANE	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD 826	1,1-DICHLOROETHENE	10			10.6	ug/L	106	
LCS01	Q2483290	METHOD 826	CIS-1,2-DICHLOROETHENE	10			9.94	ug/L	99.4	
LCS01	Q2483290	METHOD 826	TRANS-1,2-DICHLOROETHENE	10			10.8	ug/L	108	
LCS01	Q2483290	METHOD 826	1,2-DICHLOROPROPANE	10			10.3	ug/L	103	
LCS01	Q2483290	METHOD 826	1,3-DICHLOROPROPANE	10			11.2	ug/L	112	

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R586790 Analyst: R SHAMP Run Date: 24-Sep-11
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QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS01	Q2483290	METHOD 826	2,2-DICHLOROPROPANE	10			8.86	ug/L	88.6	
LCS01	Q2483290	METHOD 826	1,1-DICHLOROPROPENE	10			10.4	ug/L	104	
LCS01	Q2483290	METHOD 826	ETHYL BENZENE	10			10.3	ug/L	103	
LCS01	Q2483290	METHOD 826	HEXACHLOROBUTADIENE	10			9.74	ug/L	97.4	
LCS01	Q2483290	METHOD 826	ISOPROPYLBENZENE (CUMENE)	10			11.4	ug/L	114	
LCS01	Q2483290	METHOD 826	4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	10			10.4	ug/L	104	
LCS01	Q2483290	METHOD 826	DICHLOROMETHANE (METHYLENE CHLORIDE)	10			9.19	ug/L	91.9	
LCS01	Q2483290	METHOD 826	METHYL ETHYL KETONE	50			49.9	ug/L	99.8	
LCS01	Q2483290	METHOD 826	NAPHTHALENE	10			8.21	ug/L	82.1	
LCS01	Q2483290	METHOD 826	N-PROPYLBENZENE	10			10.3	ug/L	103	
LCS01	Q2483290	METHOD 826	STYRENE	10			10.8	ug/L	108	
LCS01	Q2483290	METHOD 826	1,1,1,2-TETRACHLOROETHANE	10			10.9	ug/L	109	
LCS01	Q2483290	METHOD 826	1,1,2,2-TETRACHLOROETHANE	10			10.3	ug/L	103	
LCS01	Q2483290	METHOD 826	TETRACHLOROETHENE	10			10.7	ug/L	107	
LCS01	Q2483290	METHOD 826	TOLUENE	10			10.1	ug/L	101	
LCS01	Q2483290	METHOD 826	1,2,3-TRICHLOROBENZENE	10			9.23	ug/L	92.3	
LCS01	Q2483290	METHOD 826	1,2,4-TRICHLOROBENZENE	10			9.23	ug/L	92.3	
LCS01	Q2483290	METHOD 826	1,1,1-TRICHLOROETHANE	10			9.48	ug/L	94.8	
LCS01	Q2483290	METHOD 826	1,1,2-TRICHLOROETHANE	10			10.8	ug/L	108	
LCS01	Q2483290	METHOD 826	TRICHLOROETHENE	10			10.5	ug/L	105	
LCS01	Q2483290	METHOD 826	TRICHLOROFLUOROMETHANE	10			8.84	ug/L	88.4	
LCS01	Q2483290	METHOD 826	1,2,3-TRICHLOROPROPANE	10			10.9	ug/L	109	
LCS01	Q2483290	METHOD 826	1,2,4-TRIMETHYLBENZENE	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD 826	1,3,5-TRIMETHYLBENZENE	10			10.1	ug/L	101	
LCS01	Q2483290	METHOD 826	VINYL CHLORIDE	10			8.29	ug/L	82.9	
LCS01	Q2483290	METHOD 826	METHYL-T-BUTYL ETHER (MTBE)	10			7.11	ug/L	71.1	
LCS01	Q2483290	METHOD 826	N-HEXANE	10			9.25	ug/L	92.5	
LCS01	Q2483290	METHOD 826	O-XYLENE	10			9.98	ug/L	99.8	
LCS01	Q2483290	METHOD 826	M/P-XYLENE	20			21	ug/L	105	
SPI01	Q2483287	A928645	Analysis Date/Time: 24-Sep-11 11:46							
SPI01	Q2483287	A928645	BENZENE	0	10		10.9	ug/L	109	
SPI01	Q2483287	A928645	BROMOBENZENE	0	10		9.87	ug/L	98.7	
SPI01	Q2483287	A928645	BROMOCHLOROMETHANE	0	10		11.4	ug/L	114	

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R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SPI01	Q2483287	A928645	BROMODICHLOROMETHANE	0	10		9.36	ug/L	93.6	
SPI01	Q2483287	A928645	BROMOFORM	0	10		8.24	ug/L	82.4	
SPI01	Q2483287	A928645	BROMOMETHANE	0	10		8.73	ug/L	87.3	
SPI01	Q2483287	A928645	N-BUTYLBENZENE	0	10		9.21	ug/L	92.1	
SPI01	Q2483287	A928645	SEC-BUTYLBENZENE	0	10		9.47	ug/L	94.7	
SPI01	Q2483287	A928645	TERT-BUTYLBENZENE	0	10		9.81	ug/L	98.1	
SPI01	Q2483287	A928645	CARBON TETRACHLORIDE	0	10		9.95	ug/L	99.5	
SPI01	Q2483287	A928645	CHLOROBENZENE	0	10		10.5	ug/L	105	
SPI01	Q2483287	A928645	DIBROMOCHLOROMETHANE	0	10		9.88	ug/L	98.8	
SPI01	Q2483287	A928645	CHLOROETHANE	0	10		10	ug/L	100	
SPI01	Q2483287	A928645	CHLOROFORM	0	10		10.2	ug/L	102	
SPI01	Q2483287	A928645	CHLOROMETHANE	0	10		9.29	ug/L	92.9	
SPI01	Q2483287	A928645	2-CHLOROTOLUENE (O-CHLOROTOLUENE)	0	10		11.2	ug/L	112	
SPI01	Q2483287	A928645	4-CHLOROTOLUENE (P-CHLOROTOLUENE)	0	10		10	ug/L	100	
SPI01	Q2483287	A928645	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0	10		9.75	ug/L	97.5	
SPI01	Q2483287	A928645	1,2-DIBROMOETHANE (EDB)	0	10		10.4	ug/L	104	
SPI01	Q2483287	A928645	DIBROMOMETHANE	0	10		10.4	ug/L	104	
SPI01	Q2483287	A928645	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	0	10		10.6	ug/L	106	
SPI01	Q2483287	A928645	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	0	10		11	ug/L	110	
SPI01	Q2483287	A928645	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	0	10		11.1	ug/L	111	
SPI01	Q2483287	A928645	DICHLORODIFLUOROMETHANE	0	10		8.88	ug/L	88.8	
SPI01	Q2483287	A928645	1,1-DICHLOROETHANE	0	10		10.4	ug/L	104	
SPI01	Q2483287	A928645	1,2-DICHLOROETHANE	0	10		10.9	ug/L	109	
SPI01	Q2483287	A928645	1,1-DICHLOROETHENE	0	10		9.68	ug/L	96.8	
SPI01	Q2483287	A928645	CIS-1,2-DICHLOROETHENE	0	10		10.4	ug/L	104	
SPI01	Q2483287	A928645	TRANS-1,2-DICHLOROETHENE	0	10		10.8	ug/L	108	
SPI01	Q2483287	A928645	1,2-DICHLOROPROPANE	0	10		10.6	ug/L	106	
SPI01	Q2483287	A928645	1,3-DICHLOROPROPANE	0	10		10.9	ug/L	109	
SPI01	Q2483287	A928645	2,2-DICHLOROPROPANE	0	10		9.15	ug/L	91.5	
SPI01	Q2483287	A928645	1,1-DICHLOROPROPENE	0	10		9.84	ug/L	98.4	
SPI01	Q2483287	A928645	ETHYL BENZENE	0	10		9.14	ug/L	91.4	
SPI01	Q2483287	A928645	HEXACHLOROBUTADIENE	0	10		10.8	ug/L	108	
SPI01	Q2483287	A928645	ISOPROPYLBENZENE (CUMENE)	0	10		9.21	ug/L	92.1	
SPI01	Q2483287	A928645	4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	0	10		8.42	ug/L	84.2	
SPI01	Q2483287	A928645	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10		10.3	ug/L	103	
SPI01	Q2483287	A928645	METHYL ETHYL KETONE	0	50		46.1	ug/L	92.2	
SPI01	Q2483287	A928645	NAPHTHALENE	0	10		8.58	ug/L	85.8	
SPI01	Q2483287	A928645	N-PROPYLBENZENE	0	10		10.3	ug/L	103	
SPI01	Q2483287	A928645	STYRENE	0	10		2.36	ug/L	23.6	
SPI01	Q2483287	A928645	1,1,1,2-TETRACHLOROETHANE	0	10		10.9	ug/L	109	
SPI01	Q2483287	A928645	1,1,2,2-TETRACHLOROETHANE	0	10		10.7	ug/L	107	
SPI01	Q2483287	A928645	TETRACHLOROETHENE	0	10		11.5	ug/L	115	
SPI01	Q2483287	A928645	TOLUENE	0	10		9.25	ug/L	92.5	

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SPI01	Q2483287	A928645	1,2,3-TRICHLOROBENZENE	0	10		9.74	ug/L	97.4	
SPI01	Q2483287	A928645	1,2,4-TRICHLOROBENZENE	0	10		9.24	ug/L	92.4	
SPI01	Q2483287	A928645	1,1,1-TRICHLOROETHANE	0	10		10	ug/L	100	
SPI01	Q2483287	A928645	1,1,2-TRICHLOROETHANE	0	10		10.7	ug/L	107	
SPI01	Q2483287	A928645	TRICHLOROETHENE	0	10		11.2	ug/L	112	
SPI01	Q2483287	A928645	TRICHLOROFLUOROMETHANE	0	10		9.38	ug/L	93.8	
SPI01	Q2483287	A928645	1,2,3-TRICHLOROPROPANE	0	10		10.7	ug/L	107	
SPI01	Q2483287	A928645	1,2,4-TRIMETHYLBENZENE	0	10		4.37	ug/L	43.7	
SPI01	Q2483287	A928645	1,3,5-TRIMETHYLBENZENE	0	10		4.27	ug/L	42.7	
SPI01	Q2483287	A928645	VINYL CHLORIDE	0	10		8.49	ug/L	84.9	
SPI01	Q2483287	A928645	METHYL-T-BUTYL ETHER (MTBE)	0	10		7.3	ug/L	73	
SPI01	Q2483287	A928645	N-HEXANE	0	10		8.54	ug/L	85.4	
SPI01	Q2483287	A928645	O-XYLENE	0	10		6.72	ug/L	67.2	
SPI01	Q2483287	A928645	M/P-XYLENE	0	20		15.1	ug/L	75.5	
DPS01	Q2483288	A928645	*Analysis Date/Time: 24-Sep-11 12:12*							
DPS01	Q2483288	A928645	BENZENE	0	10		11	ug/L	110.2	0.8
DPS01	Q2483288	A928645	BROMOBENZENE	0	10		10.2	ug/L	101.9	3.2
DPS01	Q2483288	A928645	BROMOCHLOROMETHANE	0	10		11.9	ug/L	119.3	4.6
DPS01	Q2483288	A928645	BROMODICHLOROMETHANE	0	10		9.6	ug/L	96	2.5
DPS01	Q2483288	A928645	BROMOFORM	0	10		8.26	ug/L	82.6	0.2
DPS01	Q2483288	A928645	BROMOMETHANE	0	10		9.68	ug/L	96.8	10.3
DPS01	Q2483288	A928645	N-BUTYLBENZENE	0	10		9.71	ug/L	97.1	5.3
DPS01	Q2483288	A928645	SEC-BUTYLBENZENE	0	10		9.78	ug/L	97.8	3.2
DPS01	Q2483288	A928645	TERT-BUTYLBENZENE	0	10		10.2	ug/L	101.6	3.5
DPS01	Q2483288	A928645	CARBON TETRACHLORIDE	0	10		10.5	ug/L	104.6	5
DPS01	Q2483288	A928645	CHLOROBENZENE	0	10		10.8	ug/L	108	3.2
DPS01	Q2483288	A928645	DIBROMOCHLOROMETHANE	0	10		9.51	ug/L	95.1	3.8
DPS01	Q2483288	A928645	CHLOROETHANE	0	10		10.3	ug/L	102.7	2.5
DPS01	Q2483288	A928645	CHLOROFORM	0	10		10.5	ug/L	104.6	2.5
DPS01	Q2483288	A928645	CHLOROMETHANE	0	10		10.1	ug/L	101.4	8.7
DPS01	Q2483288	A928645	2-CHLOROTOLUENE (O-CHLOROTOLUENE)	0	10		10.9	ug/L	108.8	3.2
DPS01	Q2483288	A928645	4-CHLOROTOLUENE (P-CHLOROTOLUENE)	0	10		10.5	ug/L	104.7	4.3
DPS01	Q2483288	A928645	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0	10		9.23	ug/L	92.3	5.5
DPS01	Q2483288	A928645	1,2-DIBROMOETHANE (EDB)	0	10		10.3	ug/L	103.4	0.2
DPS01	Q2483288	A928645	DIBROMOMETHANE	0	10		10.8	ug/L	108.3	4.2
DPS01	Q2483288	A928645	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	0	10		10.9	ug/L	109.4	3.4
DPS01	Q2483288	A928645	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	0	10		11	ug/L	109.7	0.5
DPS01	Q2483288	A928645	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	0	10		11.1	ug/L	111.3	0.4
DPS01	Q2483288	A928645	DICHLORODIFLUOROMETHANE	0	10		9.05	ug/L	90.5	1.9
DPS01	Q2483288	A928645	1,1-DICHLOROETHANE	0	10		10.6	ug/L	106.3	2.2
DPS01	Q2483288	A928645	1,2-DICHLOROETHANE	0	10		10.9	ug/L	109	0.5
DPS01	Q2483288	A928645	1,1-DICHLOROETHENE	0	10		10.6	ug/L	106	9.1
DPS01	Q2483288	A928645	CIS-1,2-DICHLOROETHENE	0	10		11.2	ug/L	111.6	7.1
DPS01	Q2483288	A928645	TRANS-1,2-DICHLOROETHENE	0	10		11	ug/L	109.7	1.9

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DPS01	Q2483288	A928645	1,2-DICHLOROPROPANE	0	10		10.8	ug/L	108.3	1.8
DPS01	Q2483288	A928645	1,3-DICHLOROPROPANE	0	10		11	ug/L	110.4	1.2
DPS01	Q2483288	A928645	2,2-DICHLOROPROPANE	0	10		9.72	ug/L	97.2	6
DPS01	Q2483288	A928645	1,1-DICHLOROPROPENE	0	10		9.95	ug/L	99.5	1.1
DPS01	Q2483288	A928645	ETHYL BENZENE	0	10		9.83	ug/L	98.3	7.3
DPS01	Q2483288	A928645	HEXACHLOROBUTADIENE	0	10		10.7	ug/L	107.4	0.2
DPS01	Q2483288	A928645	ISOPROPYLBENZENE (CUMENE)	0	10		9.31	ug/L	93.1	1.1
DPS01	Q2483288	A928645	4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	0	10		8.71	ug/L	87.1	3.4
DPS01	Q2483288	A928645	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10		10.3	ug/L	103	0.1
DPS01	Q2483288	A928645	METHYL ETHYL KETONE	0	50		48	ug/L	96	4
DPS01	Q2483288	A928645	NAPHTHALENE	0	10		8.72	ug/L	87.2	1.6
DPS01	Q2483288	A928645	N-PROPYLBENZENE	0	10		9.99	ug/L	99.9	3.1
DPS01	Q2483288	A928645	STYRENE	0	10		2.93	ug/L	29.3	21.6
DPS01	Q2483288	A928645	1,1,1,2-TETRACHLOROETHANE	0	10		11.1	ug/L	111.4	1.8
DPS01	Q2483288	A928645	1,1,2,2-TETRACHLOROETHANE	0	10		11.1	ug/L	110.9	3.6
DPS01	Q2483288	A928645	TETRACHLOROETHENE	0	10		11.2	ug/L	112.4	1.9
DPS01	Q2483288	A928645	TOLUENE	0	10		9.86	ug/L	98.6	6.4
DPS01	Q2483288	A928645	1,2,3-TRICHLOROBENZENE	0	10		9.64	ug/L	96.4	1
DPS01	Q2483288	A928645	1,2,4-TRICHLOROBENZENE	0	10		9.56	ug/L	95.6	3.4
DPS01	Q2483288	A928645	1,1,1-TRICHLOROETHANE	0	10		10.5	ug/L	104.5	4.1
DPS01	Q2483288	A928645	1,1,2-TRICHLOROETHANE	0	10		10.7	ug/L	106.9	0.6
DPS01	Q2483288	A928645	TRICHLOROETHENE	0	10		11.3	ug/L	113.2	0.8
DPS01	Q2483288	A928645	TRICHLOROFLUOROMETHANE	0	10		9.71	ug/L	97.1	3.5
DPS01	Q2483288	A928645	1,2,3-TRICHLOROPROPANE	0	10		10.6	ug/L	105.9	0.8
DPS01	Q2483288	A928645	1,2,4-TRIMETHYLBENZENE	0	10		5.09	ug/L	50.9	15.2
DPS01	Q2483288	A928645	1,3,5-TRIMETHYLBENZENE	0	10		4.88	ug/L	48.8	13.3
DPS01	Q2483288	A928645	VINYL CHLORIDE	0	10		8.86	ug/L	88.6	4.3
DPS01	Q2483288	A928645	METHYL-T-BUTYL ETHER (MTBE)	0	10		7.45	ug/L	74.5	2
DPS01	Q2483288	A928645	N-HEXANE	0	10		8.64	ug/L	86.4	1.2
DPS01	Q2483288	A928645	O-XYLENE	0	10		7.4	ug/L	74	9.6
DPS01	Q2483288	A928645	M/P-XYLENE	0	20		15.7	ug/L	78.4	4
SAMPLE	A929118		Analysis Date/Time: 24-Sep-11 15:09							
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		Analysis Date/Time: 24-Sep-11 15:35							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
SAMPLE	A929120		Analysis Date/Time: 24-Sep-11 16:00							
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
SAMPLE	A929121		Analysis Date/Time: 24-Sep-11 16:25							
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							

Q2468569 Value reported for analytes calibrated by linear (LIN) or
Q2468569 Value reported for analytes calibrated by linear (LIN) or
Q2468569 quadratic (QDR) equations is r2 (Coef. of Determination).
Q2468569 quadratic (QDR) equations is r2 (Coef. of Determination).
Q2483284 Value reported for analytes calibrated by linear (LIN) or quadratic (QDR)
Q2483284 Value reported for analytes calibrated by linear (LIN) or quadratic (QDR)
Q2483284 equations is concentration.

VOLATILE ORGANICS SW846-8260B O510.7

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
Q2483284	equations is concentration.									
Q2483287	2-Chloroethyl vinyl ether degrades under acidic conditions. No recovery									
Q2483287	2-Chloroethyl vinyl ether degrades under acidic conditions. No recovery									
Q2483287	possible. Unacidified sample not available.									
Q2483287	possible. Unacidified sample not available.									
Q2483288	2-Chloroethyl vinyl ether degrades under acidic conditions. No recovery									
Q2483288	2-Chloroethyl vinyl ether degrades under acidic conditions. No recovery									
Q2483288	possible. Unacidified sample not available.									
Q2483288	possible.. Unacidified sample not available.									

PCB/PESTICIDE SCAN GC:ECD SW846-8081 O305.1
Prep : GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586647 Analyst: A DUKES Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: E WERNZ Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481785		Analytical Run: R586673							
LCS	Q2481786		Analytical Run: R586673							
DLCS	Q2481787		Analytical Run: R586673							
SAMPLE	A929118	Rep: 0	Analytical Run: R586673							
SAMPLE	A929119	Rep: 0	Analytical Run: R586673							
SAMPLE	A929120	Rep: 0	Analytical Run: R586673							
SAMPLE	A929121	Rep: 0	Analytical Run: R586673							

R586673 Analyst: A DUKES Run Date: 22-Sep-11 Instrument: GC/ECD
Analytical Reviewer: E WERNZ Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2481963		ALPHA-BHC	26600000						13.22
CAL01	Q2481963		BETA-BHC	9040000						11.39
CAL01	Q2481963		DELTA-BHC	22900000						17.51
CAL01	Q2481963		GAMMA-BHC (LINDANE)	23800000						12.32
CAL01	Q2481963		HEPTACHLOR	16800000						14.19
CAL01	Q2481963		ALDRIN	29100000						9.23
CAL01	Q2481963		HEPTACHLOR EPOXIDE	22900000						8.86
CAL01	Q2481963		ENDOSULFAN I	22000000						10.08
CAL01	Q2481963		DIELDRIN	23400000						9.83
CAL01	Q2481963		4,4'-DDE	28900000						7.22
CAL01	Q2481963		ENDRIN	12700000						12.53
CAL01	Q2481963		ENDOSULFAN II	18200000						13.59
CAL01	Q2481963		4,4'-DDD	17000000						15.08
CAL01	Q2481963		ENDOSULFAN SULFATE	18000000						12.96
CAL01	Q2481963		4,4'-DDT	9590000						19.82
CAL01	Q2481963		METHOXYCHLOR	4370000						17.42
CAL01	Q2481963		ENDRIN ALDEHYDE	16000000						11.84
CAL01	Q2481963		ENDRIN KETONE	18700000						14.26
CAL01	Q2481963		ALPHA-CHLORDANE	23400000						12.47
CAL01	Q2481963		GAMMA-CHLORDANE	23600000						13.21

PCB/PESTICIDE SCAN GC:ECD SW846-8081 **O305.1**
Prep : GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586673 Analyst: A DUKES Run Date: 22-Sep-11
Analytical Reviewer: E WERNZ Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2481963		DECACHLOROBIPHENYL (DCB)	18900000						8.72
ICV01	Q2481964		ALPHA-BHC	50.0			58.7	mg/L	117.4	
ICV01	Q2481964		BETA-BHC	50.0			63.3	mg/L	126.6	
ICV01	Q2481964		DELTA-BHC	50.0			61.8	mg/L	123.6	
ICV01	Q2481964		GAMMA-BHC (LINDANE)	50.0			58.5	mg/L	117.0	
ICV01	Q2481964		HEPTACHLOR	50.0			63.8	mg/L	127.6	
ICV01	Q2481964		ALDRIN	50.0			55.2	mg/L	110.4	
ICV01	Q2481964		HEPTACHLOR EPOXIDE	50.0			55.4	mg/L	110.8	
ICV01	Q2481964		ENDOSULFAN I	50.0			55.6	mg/L	111.2	
ICV01	Q2481964		DIELDRIN	50.0			56.7	mg/L	113.4	
ICV01	Q2481964		4,4'-DDE	50.0			56.1	mg/L	112.2	
ICV01	Q2481964		ENDRIN	50.0			59.3	mg/L	118.6	
ICV01	Q2481964		ENDOSULFAN II	50.0			59.0	mg/L	118.0	
ICV01	Q2481964		4,4'-DDD	50.0			59.2	mg/L	118.4	
ICV01	Q2481964		ENDOSULFAN SULFATE	50.0			58.1	mg/L	116.2	
ICV01	Q2481964		4,4'-DDT	50.0			58.3	mg/L	116.6	
ICV01	Q2481964		METHOXYCHLOR	50.0			52.7	mg/L	105.4	
ICV01	Q2481964		ENDRIN ALDEHYDE	50.0			49.0	mg/L	98.0	
ICV01	Q2481964		ENDRIN KETONE	50.0			57.2	mg/L	114.4	
ICV01	Q2481964		ALPHA-CHLORDANE	50.0			58.5	mg/L	117.0	
ICV01	Q2481964		GAMMA-CHLORDANE	50.0			59.1	mg/L	118.2	
ICV01	Q2481964		DECACHLOROBIPHENYL (DCB)	50.0			51.8		103.6	
BLA02	Q2481785		ALPHA-BHC			BDL	0.05	ug/L		
BLA02	Q2481785		BETA-BHC			BDL	0.05	ug/L		
BLA02	Q2481785		DELTA-BHC			BDL	0.05	ug/L		
BLA02	Q2481785		GAMMA-BHC (LINDANE)			BDL	0.05	ug/L		
BLA02	Q2481785		HEPTACHLOR			BDL	0.05	ug/L		
BLA02	Q2481785		ALDRIN			BDL	0.05	ug/L		
BLA02	Q2481785		HEPTACHLOR EPOXIDE			BDL	0.05	ug/L		
BLA02	Q2481785		ENDOSULFAN I			BDL	0.05	ug/L		
BLA02	Q2481785		DIELDRIN			BDL	0.1	ug/L		
BLA02	Q2481785		4,4'-DDE			BDL	0.1	ug/L		
BLA02	Q2481785		ENDRIN			BDL	0.1	ug/L		
BLA02	Q2481785		ENDOSULFAN II			BDL	0.1	ug/L		
BLA02	Q2481785		4,4'-DDD			BDL	0.1	ug/L		
BLA02	Q2481785		ENDOSULFAN SULFATE			BDL	0.1	ug/L		
BLA02	Q2481785		4,4'-DDT			BDL	0.1	ug/L		
BLA02	Q2481785		METHOXYCHLOR			BDL	0.5	ug/L		
BLA02	Q2481785		ENDRIN ALDEHYDE			BDL	0.1	ug/L		
BLA02	Q2481785		ENDRIN KETONE			BDL	0.1	ug/L		
BLA02	Q2481785		ALPHA-CHLORDANE			BDL	0.5	ug/L		
BLA02	Q2481785		GAMMA-CHLORDANE			BDL	0.5	ug/L		
BLA02	Q2481785		TOXAPHENE			BDL	1	ug/L		
BLA02	Q2481785		PCB AROCLOR 1016			BDL	0.5	ug/L		
BLA02	Q2481785		PCB AROCLOR 1221			BDL	0.5	ug/L		
BLA02	Q2481785		PCB AROCLOR 1232			BDL	0.5	ug/L		
BLA02	Q2481785		PCB AROCLOR 1242			BDL	0.5	ug/L		

PCB/PESTICIDE SCAN GC:ECD SW846-8081 **O305.1**
Prep : GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586673 Analyst: A DUKES Run Date: 22-Sep-11
Analytical Reviewer: E WERNZ Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481785		PCB AROCLOR 1248			BDL	0.5	ug/L		
BLA02	Q2481785		PCB AROCLOR 1254			BDL	0.5	ug/L		
BLA02	Q2481785		PCB AROCLOR 1260			BDL	0.5	ug/L		
BLA02	Q2481785		DECACHLOROBIPHENYL (DCB)						95.1	
LCS	Q2481786		ALPHA-BHC	0.20			0.215	ug/L	107.5	
LCS	Q2481786		BETA-BHC	0.20			0.220	ug/L	110.0	
LCS	Q2481786		DELTA-BHC	0.20			0.229	ug/L	114.5	
LCS	Q2481786		GAMMA-BHC (LINDANE)	0.20			0.216	ug/L	108.0	
LCS	Q2481786		HEPTACHLOR	0.20			0.222	ug/L	111.0	
LCS	Q2481786		ALDRIN	0.20			0.189	ug/L	94.5	
LCS	Q2481786		HEPTACHLOR EPOXIDE	0.20			0.218	ug/L	109.0	
LCS	Q2481786		ENDOSULFAN I	0.20			0.210	ug/L	105.0	
LCS	Q2481786		DIELDRIN	0.40			0.450	ug/L	112.5	
LCS	Q2481786		4,4'-DDE	0.40			0.422	ug/L	105.5	
LCS	Q2481786		ENDRIN	0.40			0.601	ug/L	150.2	
LCS	Q2481786		ENDOSULFAN II	0.40			0.464	ug/L	116.0	
LCS	Q2481786		4,4'-DDD	0.40			0.468	ug/L	117.0	
LCS	Q2481786		ENDOSULFAN SULFATE	0.40			0.453	ug/L	113.2	
LCS	Q2481786		4,4'-DDT	0.40			0.517	ug/L	129.2	
LCS	Q2481786		METHOXYCHLOR	2.00			2.611	ug/L	130.6	
LCS	Q2481786		ENDRIN ALDEHYDE	0.40			0.426	ug/L	106.5	
LCS	Q2481786		ENDRIN KETONE	0.40			0.441	ug/L	110.2	
LCS	Q2481786		ALPHA-CHLORDANE	0.20			0.206	ug/L	103.0	
LCS	Q2481786		GAMMA-CHLORDANE	0.20			0.216	ug/L	108.0	
DLCS	Q2481787		ALPHA-BHC	0.20			0.227	ug/L	113.5	5.4
DLCS	Q2481787		BETA-BHC	0.20			0.221	ug/L	110.5	0.4
DLCS	Q2481787		DELTA-BHC	0.20			0.227	ug/L	113.5	0.9
DLCS	Q2481787		GAMMA-BHC (LINDANE)	0.20			0.223	ug/L	111.5	3.2
DLCS	Q2481787		HEPTACHLOR	0.20			0.189	ug/L	94.5	16.0
DLCS	Q2481787		ALDRIN	0.20			0.180	ug/L	90.0	4.9
DLCS	Q2481787		HEPTACHLOR EPOXIDE	0.20			0.216	ug/L	108.0	0.9
DLCS	Q2481787		ENDOSULFAN I	0.20			0.216	ug/L	108.0	2.8
DLCS	Q2481787		DIELDRIN	0.40			0.442	ug/L	110.5	1.8
DLCS	Q2481787		4,4'-DDE	0.40			0.441	ug/L	110.2	4.4
DLCS	Q2481787		ENDRIN	0.40			0.489	ug/L	122.2	20.6
DLCS	Q2481787		ENDOSULFAN II	0.40			0.442	ug/L	110.5	4.8
DLCS	Q2481787		4,4'-DDD	0.40			0.448	ug/L	112.0	4.4
DLCS	Q2481787		ENDOSULFAN SULFATE	0.40			0.425	ug/L	106.2	6.4
DLCS	Q2481787		4,4'-DDT	0.40			0.443	ug/L	110.8	15.3
DLCS	Q2481787		METHOXYCHLOR	2.00			2.082	ug/L	104.1	22.6
DLCS	Q2481787		ENDRIN ALDEHYDE	0.40			0.403	ug/L	100.8	5.5
DLCS	Q2481787		ENDRIN KETONE	0.40			0.402	ug/L	100.5	9.2
DLCS	Q2481787		ALPHA-CHLORDANE	0.20			0.211	ug/L	105.5	2.4
DLCS	Q2481787		GAMMA-CHLORDANE	0.20			0.212	ug/L	106.0	1.9
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							

PCB/PESTICIDE SCAN GC:ECD SW846-8081 **O305.1**
Prep : GC PESTICIDE SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586673 Analyst: A DUKES Run Date: 22-Sep-11
Analytical Reviewer: E WERNZ Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2481965		ALPHA-BHC	20.0		*	23.4	mg/L	117.0	
CCV	Q2481965		BETA-BHC	20.0			22.8	mg/L	114.0	
CCV	Q2481965		DELTA-BHC	20.0		*	23.4	mg/L	117.0	
CCV	Q2481965		GAMMA-BHC (LINDANE)	20.0			22.9	mg/L	114.5	
CCV	Q2481965		HEPTACHLOR	20.0		*	23.3	mg/L	116.5	
CCV	Q2481965		ALDRIN	20.0			22.1	mg/L	110.5	
CCV	Q2481965		HEPTACHLOR EPOXIDE	20.0			22.0	mg/L	110.0	
CCV	Q2481965		ENDOSULFAN I	20.0			22.1	mg/L	110.5	
CCV	Q2481965		DIELDRIN	40.0			45.1	mg/L	112.8	
CCV	Q2481965		4,4'-DDE	40.0			44.0	mg/L	110.0	
CCV	Q2481965		ENDRIN	40.0			42.6	mg/L	106.5	
CCV	Q2481965		ENDOSULFAN II	40.0			45.2	mg/L	113.0	
CCV	Q2481965		4,4'-DDD	40.0			43.4	mg/L	108.5	
CCV	Q2481965		ENDOSULFAN SULFATE	40.0			45.2	mg/L	113.0	
CCV	Q2481965		4,4'-DDT	40.0			41.5	mg/L	103.8	
CCV	Q2481965		METHOXYCHLOR	200.0			195.9	mg/L	98.0	
CCV	Q2481965		ENDRIN ALDEHYDE	40.0			43.6	mg/L	109.0	
CCV	Q2481965		ENDRIN KETONE	40.0			44.0	mg/L	110.0	
CCV	Q2481965		ALPHA-CHLORDANE	20.0			22.3	mg/L	111.5	
CCV	Q2481965		GAMMA-CHLORDANE	20.0			22.4	mg/L	112.0	
CCV	Q2481965		DECACHLOROBIPHENYL (DCB)	40			44.9		112.2	

Q2481965 * Analyte recoveries are bias high; samples are BDL
Q2481965 * Analyte recoveries are bias high; samples are BDL

HEXAVALENT CHROMIUM SW846-7196A **M110.6**

R586617 Analyst: E SOTKIEWICZ Run Date: 22-Sep-11
Analytical Reviewer: P SPENCE Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CDL01	Q2481595		HEXAVALENT CHROMIUM	0.005			0.00443	mg/L	88.6	
ICV01	Q2481596		HEXAVALENT CHROMIUM	0.500			0.515	mg/L	103.0	
CCV	Q2481599		HEXAVALENT CHROMIUM	0.250			0.247	mg/L	98.8	
BLA01	Q2481600		HEXAVALENT CHROMIUM			BDL	0.01	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SPI01	Q2481601	A929118	HEXAVALENT CHROMIUM	0	0.200		0.217	mg/L	108.5	
DPS01	Q2481602	A929118	HEXAVALENT CHROMIUM	0	0.200		0.216	mg/L	108.0	0.5
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2481603		HEXAVALENT CHROMIUM	0.250			0.240	mg/L	96.0	
BLA01	Q2481604		HEXAVALENT CHROMIUM			BDL	0.01	mg/L		

MERCURY CVAA SW846-7470A **M120.1**
Prep : MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

R586724 Analyst: W WATNESS Run Date: 27-Sep-11 Instrument: PREP
Prep Reviewer: S O'NEAL Review Date: 27-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2482430	LEEMAN	Analytical Run: R586805							
BLA02	Q2482431	NA	Analytical Run: R586805							
SPI02	Q2482432	A929288	Analytical Run: R586805							
DPS02	Q2482433	A929288	Analytical Run: R586805							
SPI01	Q2482441	A929288	Analytical Run: R586805							
SAMPLE	A929118	Rep: 0	Analytical Run: R586805							
SAMPLE	A929119	Rep: 0	Analytical Run: R586805							
SAMPLE	A929120	Rep: 0	Analytical Run: R586805							
SAMPLE	A929121	Rep: 0	Analytical Run: R586805							

R586805 Analyst: W WATNESS Run Date: 27-Sep-11 Instrument: CVAA
Analytical Reviewer: S ENDERSEN Review Date: 27-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2483381	LEEMAN	MERCURY	0.002			0.00200	mg/L	100.0	
CDL01	Q2483413	SPEX	MERCURY	0.0002			0.000164	mg/L	82.0	
LCS	Q2482430	LEEMAN	MERCURY	0.002			0.00207	mg/L	103.5	
BLA02	Q2482431	NA	MERCURY			<	0.000080	mg/L		
SER01	Q2482440	A929288	MERCURY	0		BDL		mg/L		
SPI02	Q2482432	A929288	MERCURY	0	0.001		0.00100	mg/L	100.0	
DPS02	Q2482433	A929288	MERCURY	0	0.001		0.000973	mg/L	97.3	2.7
SPI01	Q2482441	A929288	MERCURY	0	0.002		0.00193	mg/L	96.5	
CCV	Q2483389	SPEX	MERCURY	0.003			0.00318	mg/L	106.0	
BLA01	Q2483404	NA	MERCURY			<	0.000080	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CDL01	Q2483414	SPEX	MERCURY	0.0002			0.000178	mg/L	89.0	
CCV	Q2483390	SPEX	MERCURY	0.003			0.00314	mg/L	104.7	
BLA01	Q2483405	NA	MERCURY			<	0.000080	mg/L		
SER01	Q2482438	A928888	MERCURY	0		BDL		mg/L		

SILVER ICP SW846-6010B **M130.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP

SILVER ICP SW846-6010B **M130.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	SILVER	0.0100			0.0103	mg/L	103.0	
ICV01	Q2481883	PERKIN ELM	SILVER	0.5			0.505	mg/L	101.0	
LCCV	Q2481937	INORGANIC	SILVER	0.0100			0.0103	mg/L	103.0	
CDL01	Q2481928	PERKIN ELM	SILVER	0.020			0.0208	mg/L	104.0	
ICS-AB	Q2481905	PERKIN ELM	SILVER	0.2			0.222	mg/L	111.0	
SER01	Q2481935	A929008	SILVER	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	SILVER	1.00			1.02	mg/L	102.0	
BLA01	Q2481903	NA	SILVER			<	0.000800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	SILVER	1.00			1.01	mg/L	101.0	
BLA01	Q2481904	NA	SILVER			<	0.000800	mg/L		
SER01	Q2482049	A928993	SILVER	0.0366		CNA	0.0538	mg/L		
CDL01	Q2482047	INORGANIC	SILVER	0.0100			0.0104	mg/L	104.0	
ICS-AB	Q2482041	PERKIN ELM	SILVER	0.2			0.222	mg/L	111.0	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	SILVER			<	0.000112	mg/L		
LCS	Q2481639	SPEX	SILVER	0.05			0.0544	mg/L	108.8	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD

SILVER ICP SW846-6010B **M130.3**

Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586733 Analyst: J KRAMER Run Date: 24-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	SILVER			<	0.000800	mg/L		
LCS	Q2481643	INORGANIC	SILVER	0.05			0.0556	mg/L	111.2	
DUP02	Q2481644	A928639	SILVER	0		BDL		mg/L		
SPI02	Q2481645	A928639	SILVER	0	0.05		0.0550	mg/L	110.0	

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	SILVER			<	0.000112	mg/L		
LCS	Q2482842	SPEX	SILVER	0.05			0.0530	mg/L	106.0	
DUP02	Q2482843	A929121	SILVER	0		BDL		mg/L		
SPI02	Q2482844	A929121	SILVER	0	0.050		0.0531	mg/L	106.2	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	SILVER	0.0100			0.0104	mg/L	104.0	
ICV01	Q2483675	PERKIN ELM	SILVER	0.5			0.506	mg/L	101.2	
CDL01	Q2483670	INORGANIC	SILVER	2			2.00	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	SILVER	0.2			0.221	mg/L	110.5	
LCCV	Q2483678	INORGANIC	SILVER	0.0100			0.0104	mg/L	104.0	
SER01	Q2483673	A929233	SILVER	0		BDL		mg/L		
CCV	Q2483664	INORGANIC	SILVER	1.00			1.02	mg/L	102.0	
BLA01	Q2483654	NA	SILVER			<	0.000800	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	SILVER	1.00			1.02	mg/L	102.0	
BLA01	Q2483655	NA	SILVER			<	0.000800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	SILVER	1.00			1.02	mg/L	102.0	
BLA01	Q2483656	NA	SILVER			<	0.000800	mg/L		
SER01	Q2483672	A929081	SILVER	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	SILVER	0.0100			0.0103	mg/L	103.0	
ICS-AB	Q2483729	PERKIN ELM	SILVER	0.2			0.220	mg/L	110.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

BLA02	Q2482845	NA	SILVER			<	0.000800	mg/L		

SILVER ICP SW846-6010B **M130.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R587040 Analyst: J KRAMER Run Date: 01-Oct-11
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2482846	INORGANIC	SILVER	0.05			0.0546	mg/L	109.2	
DUP02	Q2482847	A929121	SILVER	0		BDL		mg/L		
SPI02	Q2482848	A929121	SILVER	0	0.05		0.0533	mg/L	106.6	

ALUMINUM ICP SW846-6010B **M101.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
DUP02	Q2481644	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	ALUMINUM	0.0500			0.0455	mg/L	91.0	
ICV01	Q2481883	PERKIN ELM	ALUMINUM	1			1.00	mg/L	100.0	
LCCV	Q2481937	INORGANIC	ALUMINUM	0.0500			0.0446	mg/L	89.2	
CDL01	Q2481929	INORGANIC	ALUMINUM	0.0500			0.0427	mg/L	85.4	
ICS-A	Q2481931	PERKIN-ELM	ALUMINUM	500			512	mg/L	102.4	
ICS-AB	Q2481905	PERKIN ELM	ALUMINUM	500			511	mg/L	102.2	
SER01	Q2481935	A929008	ALUMINUM	0.659			0.638	mg/L		3.2
CCV	Q2481924	INORGANIC	ALUMINUM	5.00			5.00	mg/L	100.0	
BLA01	Q2481903	NA	ALUMINUM			<	0.0200	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	ALUMINUM	5.00			4.99	mg/L	99.8	
BLA01	Q2481904	NA	ALUMINUM			<	0.0200	mg/L		
SER01	Q2482049	A928993	ALUMINUM	2020			2070	mg/L		2.4
CDL01	Q2482047	INORGANIC	ALUMINUM	0.0500			0.0428	mg/L	85.6	
ICS-A	Q2482048	PERKIN-ELM	ALUMINUM	500			513	mg/L	102.6	
ICS-AB	Q2482041	PERKIN ELM	ALUMINUM	500			509	mg/L	101.8	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

BLA02	Q2481638	NA	ALUMINUM			<	0.00240	mg/L		

ALUMINUM ICP SW846-6010B **M101.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586671 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2481639	SPEX	ALUMINUM	2			2.15	mg/L	107.5	
SPI02	Q2481641	A928639	ALUMINUM	0	2.00		2.19	mg/L	109.5	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
DUP02	Q2482847	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2481644	A928639	ALUMINUM	0		BDL		mg/L		

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	ALUMINUM			<	0.00240	mg/L		
LCS	Q2482842	SPEX	ALUMINUM	2			2.10	mg/L	105.0	
DUP02	Q2482843	A929121	ALUMINUM	0.0722			0.0870	mg/L		18.6
SPI02	Q2482844	A929121	ALUMINUM	0.0722	2.00		2.22	mg/L	107.4	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	ALUMINUM	0.0500			0.0493	mg/L	98.6	
ICV01	Q2483675	PERKIN ELM	ALUMINUM	1			1.00	mg/L	100.0	
CDL01	Q2483670	INORGANIC	ALUMINUM	10			10.0	mg/L	100.0	
ICS-A	Q2483671	PERKIN-ELM	ALUMINUM	500			519	mg/L	103.8	
ICS-AB	Q2483657	PERKIN ELM	ALUMINUM	500			513	mg/L	102.6	
LCCV	Q2483678	INORGANIC	ALUMINUM	0.0500			0.0479	mg/L	95.8	
SER01	Q2483673	A929233	ALUMINUM	1.21			1.12	mg/L		7.7
CCV	Q2483664	INORGANIC	ALUMINUM	5.00			5.11	mg/L	102.2	
BLA01	Q2483654	NA	ALUMINUM			<	0.0200	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	ALUMINUM	5.00			5.12	mg/L	102.4	
BLA01	Q2483655	NA	ALUMINUM			<	0.0200	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	ALUMINUM	5.00			5.07	mg/L	101.4	

ALUMINUM ICP SW846-6010B **M101.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA01	Q2483656	NA	ALUMINUM			<	0.0200	mg/L		
SER01	Q2483672	A929081	ALUMINUM	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	ALUMINUM	0.0500			0.0461	mg/L	92.2	
ICS-A	Q2483735	PERKIN-ELM	ALUMINUM	500			496	mg/L	99.2	
ICS-AB	Q2483729	PERKIN ELM	ALUMINUM	500			499	mg/L	99.8	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 01-Oct-11 — Review Date: 03-Oct-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2482847	A929121	ALUMINUM	0.0821		CNA	0.0812	mg/L		

CALCIUM ICP SW846-6010B **M109.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
DUP02	Q2481644	A928639	Analytical Run: R586733							

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	CALCIUM	0.1			0.0893	mg/L	89.3	
ICV01	Q2481883	PERKIN ELM	CALCIUM	20			20.4	mg/L	102.0	
LCCV	Q2481937	INORGANIC	CALCIUM	0.1			0.0942	mg/L	94.2	
CDL01	Q2481929	INORGANIC	CALCIUM	0.1			0.0890	mg/L	89.0	
ICS-A	Q2481931	PERKIN-ELM	CALCIUM	500			492	mg/L	98.4	
ICS-AB	Q2481905	PERKIN ELM	CALCIUM	500			492	mg/L	98.4	
SER01	Q2481935	A929008	CALCIUM	21.0			21.2	mg/L		0.9
CCV	Q2481924	INORGANIC	CALCIUM	50.0			51.6	mg/L	103.2	
BLA01	Q2481903	NA	CALCIUM			<	0.0400	mg/L		

CALCIUM ICP SW846-6010B **M109.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	CALCIUM	50.0			51.6	mg/L	103.2	
BLA01	Q2481904	NA	CALCIUM			<	0.0400	mg/L		
SER01	Q2482049	A928993	CALCIUM	17200			17800	mg/L		3.4
CDL01	Q2482047	INORGANIC	CALCIUM	0.1			0.0909	mg/L	90.9	
ICS-A	Q2482048	PERKIN-ELM	CALCIUM	500			500	mg/L	100.0	
ICS-AB	Q2482041	PERKIN ELM	CALCIUM	500			496	mg/L	99.2	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	CALCIUM				0.0226	mg/L		
LCS	Q2481639	SPEX	CALCIUM	100			106	mg/L	106.0	
SPI02	Q2481641	A928639	CALCIUM	443	100		531	mg/L	88.0	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
DUP02	Q2482847	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2481644	A928639	CALCIUM	429			418	mg/L		2.6

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	CALCIUM				0.00754	mg/L		
LCS	Q2482842	SPEX	CALCIUM	100			101	mg/L	101.0	
DUP02	Q2482843	A929121	CALCIUM	52.8			55.2	mg/L		4.4
SPI02	Q2482844	A929121	CALCIUM	52.8	100		153	mg/L	100.2	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP

CALCIUM ICP SW846-6010B **M109.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	CALCIUM	0.1			0.0990	mg/L	99.0	
ICV01	Q2483675	PERKIN ELM	CALCIUM	20			20.3	mg/L	101.5	
CDL01	Q2483669	INORGANIC	CALCIUM	0.1			0.0983	mg/L	98.3	
ICS-A	Q2483671	PERKIN-ELM	CALCIUM	500			493	mg/L	98.6	
ICS-AB	Q2483657	PERKIN ELM	CALCIUM	500			485	mg/L	97.0	
LCCV	Q2483678	INORGANIC	CALCIUM	0.1			0.0989	mg/L	98.9	
SER01	Q2483673	A929233	CALCIUM	544			533	mg/L		2.0
CCV	Q2483664	INORGANIC	CALCIUM	50.0			51.5	mg/L	103.0	
BLA01	Q2483654	NA	CALCIUM			<	0.0400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	CALCIUM	50.0			51.4	mg/L	102.8	
BLA01	Q2483655	NA	CALCIUM			<	0.0400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	CALCIUM	50.0			51.5	mg/L	103.0	
BLA01	Q2483656	NA	CALCIUM			<	0.0400	mg/L		
SER01	Q2483672	A929081	CALCIUM	299			284	mg/L		5.1
CDL01	Q2483734	INORGANIC	CALCIUM	0.1			0.121	mg/L	121.0	
ICS-A	Q2483735	PERKIN-ELM	CALCIUM	500			526	mg/L	105.2	
ICS-AB	Q2483729	PERKIN ELM	CALCIUM	500			522	mg/L	104.4	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2482847	A929121	CALCIUM	57.3			57.8	mg/L		0.9

COBALT ICP SW846-6010B **M111.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							

COBALT ICP SW846-6010B **M111.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	COBALT	0.0100			0.00988	mg/L	98.8	
ICV01	Q2481883	PERKIN ELM	COBALT	1			0.997	mg/L	99.7	
LCCV	Q2481937	INORGANIC	COBALT	0.0100			0.00970	mg/L	97.0	
CDL01	Q2481928	PERKIN ELM	COBALT	0.100			0.100	mg/L	100.0	
ICS-AB	Q2481905	PERKIN ELM	COBALT	0.500			0.464	mg/L	92.8	
SER01	Q2481935	A929008	COBALT	0.0548			0.0536	mg/L		2.2
CCV	Q2481924	INORGANIC	COBALT	5.00			4.90	mg/L	98.0	
BLA01	Q2481903	NA	COBALT			<	0.000800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	COBALT	5.00			4.88	mg/L	97.6	
BLA01	Q2481904	NA	COBALT			<	0.000800	mg/L		
SER01	Q2482049	A928993	COBALT	6.43			6.45	mg/L		0.3
CDL01	Q2482047	INORGANIC	COBALT	0.0100			0.00996	mg/L	99.6	
ICS-AB	Q2482041	PERKIN ELM	COBALT	0.500			0.466	mg/L	93.2	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	COBALT			<	0.000216	mg/L		
LCS	Q2481639	SPEX	COBALT	0.5			0.510	mg/L	102.0	

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							

COBALT ICP SW846-6010B **M111.3**

Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 24-Sep-11 — Review Date: 26-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	COBALT			<	0.000800	mg/L		
LCS	Q2481643	INORGANIC	COBALT	0.5			0.511	mg/L	102.2	
DUP02	Q2481644	A928639	COBALT	0.00361		CNA	0.00313	mg/L		
SPI02	Q2481645	A928639	COBALT	0.00361	0.5		0.477	mg/L	94.7	

R586848 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	COBALT				0.000549	mg/L		
LCS	Q2482842	SPEX	COBALT	0.5			0.490	mg/L	98.0	
DUP02	Q2482843	A929121	COBALT	0.00450			0.00489	mg/L		8.3
SPI02	Q2482844	A929121	COBALT	0.00450	0.500		0.492	mg/L	97.5	

R586850 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	COBALT	0.0100			0.0110	mg/L	110.0	
ICV01	Q2483675	PERKIN ELM	COBALT	1			0.980	mg/L	98.0	
CDL01	Q2483670	INORGANIC	COBALT	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	COBALT	0.500			0.464	mg/L	92.8	
LCCV	Q2483678	INORGANIC	COBALT	0.0100			0.0101	mg/L	101.0	
SER01	Q2483673	A929233	COBALT	0		CNA	0.00293	mg/L		
CCV	Q2483664	INORGANIC	COBALT	5.00			4.90	mg/L	98.0	
BLA01	Q2483654	NA	COBALT			<	0.000800	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	COBALT	5.00			4.91	mg/L	98.2	
BLA01	Q2483655	NA	COBALT			<	0.000800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	COBALT	5.00			4.98	mg/L	99.6	
BLA01	Q2483656	NA	COBALT			<	0.000800	mg/L		
SER01	Q2483672	A929081	COBALT	0		CNA	0.00263	mg/L		
CDL01	Q2483734	INORGANIC	COBALT	0.0100			0.0123	mg/L	123.0	
ICS-AB	Q2483729	PERKIN ELM	COBALT	0.500			0.500	mg/L	100.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na

COBALT ICP SW846-6010B **M111.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
Q2483672	as indicated by the serial dilution results.									
Q2483672	as indicated by the serial dilution results.									
Q2483673	1:5 Dilution.									
Q2483673	1:5 Dilution.									

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	COBALT			<	0.000800	mg/L		
LCS	Q2482846	INORGANIC	COBALT	0.5			0.500	mg/L	100.0	
DUP02	Q2482847	A929121	COBALT	0.00385		CNA	0.00398	mg/L		
SPI02	Q2482848	A929121	COBALT	0.00385	0.5		0.487	mg/L	96.6	

CHROMIUM ICP SW846-6010B **M110.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	CHROMIUM	0.0100			0.00952	mg/L	95.2	
ICV01	Q2481883	PERKIN ELM	CHROMIUM	1			1.00	mg/L	100.0	
LCCV	Q2481937	INORGANIC	CHROMIUM	0.0100			0.0122	mg/L	122.0	
CDL01	Q2481928	PERKIN ELM	CHROMIUM	0.020			0.0216	mg/L	108.0	
ICS-AB	Q2481905	PERKIN ELM	CHROMIUM	0.500			0.490	mg/L	98.0	
SER01	Q2481935	A929008	CHROMIUM	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	CHROMIUM	5.00			4.94	mg/L	98.8	
BLA01	Q2481903	NA	CHROMIUM			<	0.000800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	CHROMIUM	5.00			4.92	mg/L	98.4	
BLA01	Q2481904	NA	CHROMIUM			<	0.000800	mg/L		
SER01	Q2482049	A928993	CHROMIUM	79.1			80.2	mg/L		1.4
CDL01	Q2482047	INORGANIC	CHROMIUM	0.0100			0.00951	mg/L	95.1	

CHROMIUM ICP SW846-6010B **M110.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analytical — Analyst: J KRAMER, Reviewer: S ENDERSEN — Run Date: 22-Sep-11, Review Date: 23-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICS-AB	Q2482041	PERKIN ELM	CHROMIUM	0.500			0.490	mg/L	98.0	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analytical — Analyst: J KRAMER, Reviewer: S ENDERSEN — Run Date: 22-Sep-11, Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	CHROMIUM			<	0.000068	mg/L		
LCS	Q2481639	SPEX	CHROMIUM	0.2			0.208	mg/L	104.0	

R586709 Prep — Analyst: K KAMARA, Reviewer: S ENDERSEN — Run Date: 26-Sep-11, Review Date: 26-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analytical — Analyst: J KRAMER, Reviewer: S ENDERSEN — Run Date: 24-Sep-11, Review Date: 26-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	CHROMIUM			<	0.000800	mg/L		
LCS	Q2481643	INORGANIC	CHROMIUM	0.2			0.209	mg/L	104.5	
DUP02	Q2481644	A928639	CHROMIUM	0		BDL		mg/L		
SPI02	Q2481645	A928639	CHROMIUM	0	0.2		0.195	mg/L	97.5	

R586848 Analytical — Analyst: J KRAMER, Reviewer: S ENDERSEN — Run Date: 27-Sep-11, Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	CHROMIUM			<	0.000068	mg/L		
LCS	Q2482842	SPEX	CHROMIUM	0.2			0.198	mg/L	99.0	
DUP02	Q2482843	A929121	CHROMIUM	0		BDL		mg/L		
SPI02	Q2482844	A929121	CHROMIUM	0	0.200		0.198	mg/L	99.0	

R586850 Analytical — Analyst: J KRAMER, Reviewer: S ENDERSEN — Run Date: 27-Sep-11, Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD

CHROMIUM ICP SW846-6010B **M110.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	CHROMIUM	0.0100			0.00959	mg/L	95.9	
ICV01	Q2483675	PERKIN ELM	CHROMIUM	1			0.999	mg/L	99.9	
CDL01	Q2483670	INORGANIC	CHROMIUM	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	CHROMIUM	0.500			0.486	mg/L	97.2	
LCCV	Q2483678	INORGANIC	CHROMIUM	0.0100			0.00958	mg/L	95.8	
SER01	Q2483673	A929233	CHROMIUM	0		BDL		mg/L		
CCV	Q2483664	INORGANIC	CHROMIUM	5.00			4.96	mg/L	99.2	
BLA01	Q2483654	NA	CHROMIUM			<	0.000800	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	CHROMIUM	5.00			4.97	mg/L	99.4	
BLA01	Q2483655	NA	CHROMIUM			<	0.000800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	CHROMIUM	5.00			5.01	mg/L	100.2	
BLA01	Q2483656	NA	CHROMIUM			<	0.000800	mg/L		
SER01	Q2483672	A929081	CHROMIUM	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	CHROMIUM	0.0100			0.0104	mg/L	104.0	
ICS-AB	Q2483729	PERKIN ELM	CHROMIUM	0.500			0.511	mg/L	102.2	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	CHROMIUM			<	0.000800	mg/L		
LCS	Q2482846	INORGANIC	CHROMIUM	0.2			0.205	mg/L	102.5	
DUP02	Q2482847	A929121	CHROMIUM	0		BDL		mg/L		
SPI02	Q2482848	A929121	CHROMIUM	0	0.2		0.200	mg/L	100.0	

ANTIMONY ICP SW846-6010B **M102.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							

ANTIMONY ICP SW846-6010B **M102.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	ANTIMONY	0.01			0.00972	mg/L	97.2	
ICV01	Q2481883	PERKIN ELM	ANTIMONY	0.5			0.492	mg/L	98.4	
CDL01	Q2481928	PERKIN ELM	ANTIMONY	0.120			0.118	mg/L	98.3	
ICS-AB	Q2481905	PERKIN ELM	ANTIMONY	0.6			0.638	mg/L	106.3	
SER01	Q2481935	A929008	ANTIMONY	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	ANTIMONY	1			1.04	mg/L	104.0	
BLA01	Q2481903	NA	ANTIMONY			<	0.00400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	ANTIMONY	1			1.02	mg/L	102.0	
BLA01	Q2481904	NA	ANTIMONY			<	0.00400	mg/L		
SER01	Q2482049	A928993	ANTIMONY	18.5			18.4	mg/L		0.5
CDL01	Q2482047	INORGANIC	ANTIMONY	0.01			0.00339	mg/L	33.9	
ICS-AB	Q2482041	PERKIN ELM	ANTIMONY	0.6			0.640	mg/L	106.7	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	ANTIMONY			<	0.00216	mg/L		
LCS	Q2481639	SPEX	ANTIMONY	0.5			0.542	mg/L	108.4	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							

ANTIMONY ICP SW846-6010B **M102.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586709 Analyst: K KAMARA Run Date: 26-Sep-11
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	ANTIMONY			<	0.00200	mg/L		
LCS	Q2481643	INORGANIC	ANTIMONY	0.5			0.551	mg/L	110.2	
DUP02	Q2481644	A928639	ANTIMONY	0		BDL		mg/L		
SPI02	Q2481645	A928639	ANTIMONY	0	0.5		0.536	mg/L	107.2	

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	ANTIMONY			<	0.00216	mg/L		
LCS	Q2482842	SPEX	ANTIMONY	0.5			0.531	mg/L	106.2	
DUP02	Q2482843	A929121	ANTIMONY	0		BDL		mg/L		
SPI02	Q2482844	A929121	ANTIMONY	0	0.500		0.530	mg/L	106.0	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	ANTIMONY	0.01			0.00960	mg/L	96.0	
ICV01	Q2483675	PERKIN ELM	ANTIMONY	0.5			0.501	mg/L	100.2	
CDL01	Q2483668	PERKIN ELM	ANTIMONY	0.120			0.122	mg/L	101.7	
ICS-AB	Q2483657	PERKIN ELM	ANTIMONY	0.6			0.627	mg/L	104.5	
SER01	Q2483673	A929233	ANTIMONY	0		BDL		mg/L		
CCV	Q2483664	INORGANIC	ANTIMONY	1			1.04	mg/L	104.0	
BLA01	Q2483654	NA	ANTIMONY			<	0.00400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	ANTIMONY	1			1.05	mg/L	105.0	
BLA01	Q2483655	NA	ANTIMONY			<	0.00400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	ANTIMONY	1			1.05	mg/L	105.0	
BLA01	Q2483656	NA	ANTIMONY			<	0.00400	mg/L		
SER01	Q2483672	A929081	ANTIMONY	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	ANTIMONY	0.01			0.0155	mg/L	155.0	
ICS-AB	Q2483729	PERKIN ELM	ANTIMONY	0.6			0.650	mg/L	108.3	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.

ANTIMONY ICP SW846-6010B **M102.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
Q2483672	as indicated by the serial dilution results.									
Q2483673	1:5 Dilution.									
Q2483673	1:5 Dilution.									

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	ANTIMONY			<	0.00200	mg/L		
LCS	Q2482846	INORGANIC	ANTIMONY	0.5			0.539	mg/L	107.8	
DUP02	Q2482847	A929121	ANTIMONY	0		BDL		mg/L		
SPI02	Q2482848	A929121	ANTIMONY	0	0.5		0.526	mg/L	105.2	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586699 Analyst: C WILLHITE Run Date: 23-Sep-11 Instrument: GC/MS SVOA
Analytical Reviewer: L SMITH Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482262	HLI	Analysis Date/Time: 23-Sep-11 15:57							
BLA02	Q2482262	HLI	ACENAPHTHENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	ACENAPHTHYLENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	ANTHRACENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZO(A)PYRENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZO(G,H,I)PERYLENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZO(K)FLUORANTHENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZYL ALCOHOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BIS(2-CHLOROETHOXY)METHANE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BIS(2-CHLOROETHYL)ETHER			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BIS(2-CHLOROISOPROPYL)ETHER			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BIS(2-ETHYLHEXYL)PHTHALATE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	4-BROMODIPHENYL ETHER			BDL	10.	ug/L		
BLA02	Q2482262	HLI	CARBAZOLE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	4-CHLOROANILINE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2-CHLORONAPHTHALENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	4-CHLOROPHENYL-PHENYLETHER			BDL	10.	ug/L		
BLA02	Q2482262	HLI	CHRYSENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	DIBENZ(A,H)ANTHRACENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	DIBENZOFURAN			BDL	10.	ug/L		
BLA02	Q2482262	HLI	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)			BDL	10.	ug/L		
BLA02	Q2482262	HLI	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)			BDL	10.	ug/L		
BLA02	Q2482262	HLI	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)			BDL	10.	ug/L		

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586699 Analyst: C WILLHITE Run Date: 23-Sep-11
Analytical Reviewer: L SMITH Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482262	HLI	3,3'-DICHLOROBENZIDINE			BDL	20.	ug/L		
BLA02	Q2482262	HLI	DIETHYLPHTHALATE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	DIMETHYLPHTHALATE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	DI-N-BUTYLPHTHALATE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2,4-DINITROTOLUENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2,6-DINITROTOLUENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	DI-N-OCTYLPHTHALATE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	FLUORANTHENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	FLUORENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	HEXACHLOROBENZENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	HEXACHLOROBUTADIENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	HEXACHLOROCYCLOPENTADIENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	HEXACHLOROETHANE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	INDENO(1,2,3-CD)PYRENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	ISOPHORONE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2-METHYLNAPHTHALENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	NAPHTHALENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2-NITROANILINE (O-NITROANILINE)			BDL	50.	ug/L		
BLA02	Q2482262	HLI	3-NITROANILINE (M-NITROANILINE)			BDL	50.	ug/L		
BLA02	Q2482262	HLI	4-NITROANILINE (P-NITROANILINE)			BDL	50.	ug/L		
BLA02	Q2482262	HLI	NITROBENZENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	N-NITROSODIPHENYLAMINE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	N-NITROSO-DI-N-PROPYLAMINE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	PHENANTHRENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2-PICOLINE (2-METHYLPYRIDINE)			BDL	50.	ug/L		
BLA02	Q2482262	HLI	PYRENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	PYRIDINE			BDL	50.	ug/L		
BLA02	Q2482262	HLI	1,2,4,5-TETRACHLOROBENZENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	1,2,4-TRICHLOROBENZENE			BDL	10.	ug/L		
BLA02	Q2482262	HLI	BENZOIC ACID			BDL	50.	ug/L		
BLA02	Q2482262	HLI	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2-CHLOROPHENOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2,4-DICHLOROPHENOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2,4-DIMETHYLPHENOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2,4-DINITROPHENOL			BDL	50.	ug/L		
BLA02	Q2482262	HLI	2-METHYLPHENOL (O-CRESOL)			BDL	10.	ug/L		
BLA02	Q2482262	HLI	4-METHYLPHENOL (P-CRESOL)			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2-NITROPHENOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	4-NITROPHENOL			BDL	50.	ug/L		
BLA02	Q2482262	HLI	PENTACHLOROPHENOL			BDL	50.	ug/L		
BLA02	Q2482262	HLI	PHENOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2,3,4,6-TETRACHLOROPHENOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2,4,5-TRICHLOROPHENOL			BDL	50.	ug/L		
BLA02	Q2482262	HLI	2,4,6-TRICHLOROPHENOL			BDL	10.	ug/L		
BLA02	Q2482262	HLI	2-FLUOROPHENOL						65	
BLA02	Q2482262	HLI	PHENOL-D5						48	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586699 Analytical — Analyst: C WILLHITE — Reviewer: L SMITH — Run Date: 23-Sep-11 — Review Date: 26-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482262	HLI	NITROBENZENE-D5						92	
BLA02	Q2482262	HLI	2-FLUOROBIPHENYL						85	
BLA02	Q2482262	HLI	2,4,6-TRIBROMOPHENOL						87	
BLA02	Q2482262	HLI	TERPHENYL-D14						141	

R586713 Prep — Analyst: J MINNIEAR, II — Reviewer: L SMITH — Run Date: 23-Sep-11 — Review Date: 26-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482262	HLI	Analytical Run: R586699							
LCS	Q2482263	HLI	Analytical Run: R586928							
SPI02	Q2482328	A928984	Analytical Run: R586928							
DPS02	Q2482329	A928984	Analytical Run: R586928							
SAMPLE	A929118	Rep: 0	Analytical Run: R586877							
SAMPLE	A929119	Rep: 0	Analytical Run: R586877							
SAMPLE	A929120	Rep: 0	Analytical Run: R586877							
SAMPLE	A929121	Rep: 0	Analytical Run: R586928							

R586877 Analytical — Analyst: J MINNIEAR, II — Reviewer: L SMITH — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: GC/MS SVOA

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2482266		Analysis Date/Time: 23-Sep-11 13:55							
CAL01	Q2482266		ACENAPHTHENE	1.0976						2
CAL01	Q2482266		ACENAPHTHYLENE	1.7268						1.9
CAL01	Q2482266		ANTHRACENE	1.0803						4.4
CAL01	Q2482266		BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	1.0214						2.2
CAL01	Q2482266		BENZO(A)PYRENE	0.9171						3.6
CAL01	Q2482266		BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	1.1303						3.4
CAL01	Q2482266		BENZO(G,H,I)PERYLENE	0.6683						9.8
CAL01	Q2482266		BENZO(K)FLUORANTHENE	1.1592						2.3
CAL01	Q2482266		BENZYL ALCOHOL	0.7438						7.1
CAL01	Q2482266		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	0.5439						3.6
CAL01	Q2482266		BIS(2-CHLOROETHOXY)METHANE	0.3364						3.7
CAL01	Q2482266		BIS(2-CHLOROETHYL)ETHER	1.4034						6.3
CAL01	Q2482266		BIS(2-CHLOROISOPROPYL)ETHER	1.8862						4.1
CAL01	Q2482266		BIS(2-ETHYLHEXYL)PHTHALATE	0.7160						5.3
CAL01	Q2482266		4-BROMODIPHENYL ETHER	0.2314						3.7
CAL01	Q2482266		CARBAZOLE	0.8197						6.1
CAL01	Q2482266		4-CHLOROANILINE	0.2971						11.3
CAL01	Q2482266		2-CHLORONAPHTHALENE	1.0966						1.7
CAL01	Q2482266		4-CHLOROPHENYL-PHENYLETHER	0.6168						1.9
CAL01	Q2482266		CHRYSENE	1.0794						2.1
CAL01	Q2482266		DIBENZ(A,H)ANTHRACENE	0.7061						12.5
CAL01	Q2482266		DIBENZOFURAN	1.4572						2
CAL01	Q2482266		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	1.5312						2.3

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586877 Analyst: J MINNIEAR, II Run Date: 27-Sep-11
Analytical Reviewer: L SMITH Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2482266		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	1.5760						2.2
CAL01	Q2482266		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	1.6180						2.4
CAL01	Q2482266		3,3'-DICHLOROBENZIDINE	0.2106						7.7
CAL01	Q2482266		DIETHYLPHTHALATE	1.1352						3.4
CAL01	Q2482266		DIMETHYLPHTHALATE	1.1904						2.2
CAL01	Q2482266		DI-N-BUTYLPHTHALATE	1.0733						9.4
CAL01	Q2482266		2,4-DINITROTOLUENE	0.3605						3.9
CAL01	Q2482266		2,6-DINITROTOLUENE	0.2886						1.9
CAL01	Q2482266		DI-N-OCTYLPHTHALATE	1.4260						4.6
CAL01	Q2482266		FLUORANTHENE	0.9863						12
CAL01	Q2482266		FLUORENE	1.2251						2.4
CAL01	Q2482266		HEXACHLOROBENZENE	0.2441						2.5
CAL01	Q2482266		HEXACHLOROBUTADIENE	0.2134						1.9
CAL01	Q2482266		HEXACHLOROCYCLOPENTADIENE	0.4623						5.7
CAL01	Q2482266		HEXACHLOROETHANE	0.5988						2.6
CAL01	Q2482266		INDENO(1,2,3-CD)PYRENE	0.8465						9.8
CAL01	Q2482266		ISOPHORONE	0.5619						4.4
CAL01	Q2482266		2-METHYLNAPHTHALENE	0.7481						2.2
CAL01	Q2482266		NAPHTHALENE	0.9600						2.1
CAL01	Q2482266		2-NITROANILINE (O-NITROANILINE)	0.2666						8.1
CAL01	Q2482266		3-NITROANILINE (M-NITROANILINE)	0.2046						10.6
CAL01	Q2482266		4-NITROANILINE (P-NITROANILINE)	0.1961						14.6
CAL01	Q2482266		NITROBENZENE	0.3466						3.9
CAL01	Q2482266		N-NITROSODIPHENYLAMINE	0.5330						3.1
CAL01	Q2482266		N-NITROSO-DI-N-PROPYLAMINE	0.8036						4.9
CAL01	Q2482266		PHENANTHRENE	1.0738						1.9
CAL01	Q2482266		2-PICOLINE (2-METHYLPYRIDINE)	1.2850						10.2
CAL01	Q2482266		PYRENE	1.6708						4.5
CAL01	Q2482266		PYRIDINE	1.3066						7
CAL01	Q2482266		1,2,4,5-TETRACHLOROBENZENE	0.5592						2.1
CAL01	Q2482266		TOLUENEDIAMINE			LIN				0.996
CAL01	Q2482266		1,2,4-TRICHLOROBENZENE	0.3479						1.8
CAL01	Q2482266		BENZOIC ACID			LIN				0.990
CAL01	Q2482266		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	0.2698						6
CAL01	Q2482266		2-CHLOROPHENOL	1.3283						3.5
CAL01	Q2482266		2,4-DICHLOROPHENOL	0.2785						4.1
CAL01	Q2482266		2,4-DIMETHYLPHENOL	0.3230						4.1
CAL01	Q2482266		4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	0.1536						2.3
CAL01	Q2482266		2,4-DINITROPHENOL	0.1635						13.5
CAL01	Q2482266		2-METHYLPHENOL (O-CRESOL)	1.0915						4.7
CAL01	Q2482266		4-METHYLPHENOL (P-CRESOL)	1.0600						6.3
CAL01	Q2482266		2-NITROPHENOL	0.1841						8.4
CAL01	Q2482266		4-NITROPHENOL	0.1110						9.3
CAL01	Q2482266		PENTACHLOROPHENOL	0.1470						5.1
CAL01	Q2482266		PHENOL	1.5041						5.9

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586877 Analyst: J MINNIEAR, II Run Date: 27-Sep-11
Analytical Reviewer: L SMITH Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2482266		2,3,4,6-TETRACHLOROPHENOL	0.2870						9
CAL01	Q2482266		2,4,5-TRICHLOROPHENOL	0.3780						7.6
CAL01	Q2482266		2,4,6-TRICHLOROPHENOL	0.3697						5
CAL01	Q2482266		2-FLUOROPHENOL	1.2821						9.1
CAL01	Q2482266		PHENOL-D5	1.6434						5.4
CAL01	Q2482266		NITROBENZENE-D5	0.3489						2.7
CAL01	Q2482266		2-FLUOROBIPHENYL	1.3154						1.5
CAL01	Q2482266		2,4,6-TRIBROMOPHENOL	0.1283						6.8
CAL01	Q2482266		TERPHENYL-D14	1.1631						3.9
ICV01	Q2482267		Analysis Date/Time: 23-Sep-11 17:44							
ICV01	Q2482267		ACENAPHTHENE	50.0			53.5	ug/L	107	
ICV01	Q2482267		ACENAPHTHYLENE	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		ANTHRACENE	50.0			53.5	ug/L	107	
ICV01	Q2482267		BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		BENZO(A)PYRENE	50.0			60.7	ug/L	121.4	
ICV01	Q2482267		BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	50.0			54.8	ug/L	109.6	
ICV01	Q2482267		BENZO(G,H,I)PERYLENE	50.0			50	ug/L	100	
ICV01	Q2482267		BENZO(K)FLUORANTHENE	50.0			55.7	ug/L	111.4	
ICV01	Q2482267		BENZYL ALCOHOL	50.0			55.5	ug/L	111	
ICV01	Q2482267		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	50.0			53.7	ug/L	107.4	
ICV01	Q2482267		BIS(2-CHLOROETHOXY)METHANE	50.0			54	ug/L	108	
ICV01	Q2482267		BIS(2-CHLOROETHYL)ETHER	50.0			43.8	ug/L	87.6	
ICV01	Q2482267		BIS(2-CHLOROISOPROPYL)ETHER	50.0			50.1	ug/L	100.2	
ICV01	Q2482267		BIS(2-ETHYLHEXYL)PHTHALATE	50.0			53.2	ug/L	106.4	
ICV01	Q2482267		4-BROMODIPHENYL ETHER	50.0			56.1	ug/L	112.2	
ICV01	Q2482267		CARBAZOLE	50.0			51.9	ug/L	103.8	
ICV01	Q2482267		4-CHLOROANILINE	50.0			61.3	ug/L	122.6	
ICV01	Q2482267		2-CHLORONAPHTHALENE	50.0			60.4	ug/L	120.8	
ICV01	Q2482267		4-CHLOROPHENYL-PHENYLETHER	50.0			52.9	ug/L	105.8	
ICV01	Q2482267		CHRYSENE	50.0			54.9	ug/L	109.8	
ICV01	Q2482267		DIBENZ(A,H)ANTHRACENE	50.0			54.5	ug/L	109	
ICV01	Q2482267		DIBENZOFURAN	50.0			54.2	ug/L	108.4	
ICV01	Q2482267		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	50.0			50	ug/L	100	
ICV01	Q2482267		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	50.0			50.6	ug/L	101.2	
ICV01	Q2482267		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	50.0			50.6	ug/L	101.2	
ICV01	Q2482267		3,3'-DICHLOROBENZIDINE	50.0		*	74.6	ug/L	149.2	
ICV01	Q2482267		DIETHYLPHTHALATE	50.0			52.1	ug/L	104.2	
ICV01	Q2482267		DIMETHYLPHTHALATE	50.0			53.8	ug/L	107.6	
ICV01	Q2482267		DI-N-BUTYLPHTHALATE	50.0			52.4	ug/L	104.8	
ICV01	Q2482267		2,4-DINITROTOLUENE	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		2,6-DINITROTOLUENE	50.0			51.2	ug/L	102.4	
ICV01	Q2482267		DI-N-OCTYLPHTHALATE	50.0			57.3	ug/L	114.6	
ICV01	Q2482267		FLUORANTHENE	50.0			50.9	ug/L	101.8	
ICV01	Q2482267		FLUORENE	50.0			52	ug/L	104	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586877 Analyst: J MINNIEAR, II Run Date: 27-Sep-11
Analytical Reviewer: L SMITH Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2482267		HEXACHLOROBENZENE	50.0			51.5	ug/L	103	
ICV01	Q2482267		HEXACHLOROBUTADIENE	50.0			50.3	ug/L	100.6	
ICV01	Q2482267		HEXACHLOROCYCLOPENTADIENE	50.0			40.7	ug/L	81.4	
ICV01	Q2482267		HEXACHLOROETHANE	50.0			49.5	ug/L	99	
ICV01	Q2482267		INDENO(1,2,3-CD)PYRENE	50.0			51	ug/L	102	
ICV01	Q2482267		ISOPHORONE	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		2-METHYLNAPHTHALENE	50.0			64.9	ug/L	129.8	
ICV01	Q2482267		NAPHTHALENE	50.0			53.1	ug/L	106.2	
ICV01	Q2482267		2-NITROANILINE (O-NITROANILINE)	50.0			55	ug/L	110	
ICV01	Q2482267		3-NITROANILINE (M-NITROANILINE)	50.0		*	68.3	ug/L	136.6	
ICV01	Q2482267		4-NITROANILINE (P-NITROANILINE)	50.0			58.8	ug/L	117.6	
ICV01	Q2482267		NITROBENZENE	50.0			50	ug/L	100	
ICV01	Q2482267		N-NITROSODIPHENYLAMINE	100			101	ug/L	101	
ICV01	Q2482267		N-NITROSO-DI-N-PROPYLAMINE	50.0			51.9	ug/L	103.8	
ICV01	Q2482267		PHENANTHRENE	50.0			55.6	ug/L	111.2	
ICV01	Q2482267		2-PICOLINE (2-METHYLPYRIDINE)	50.0			43.3	ug/L	86.6	
ICV01	Q2482267		PYRENE	50.0			54.4	ug/L	108.8	
ICV01	Q2482267		PYRIDINE	50.0			50.6	ug/L	101.2	
ICV01	Q2482267		1,2,4,5-TETRACHLOROBENZENE	50.0			53.2	ug/L	106.4	
ICV01	Q2482267		TOLUENEDIAMINE	50.0			49.3	ug/L	98.6	
ICV01	Q2482267		1,2,4-TRICHLOROBENZENE	50.0			51	ug/L	102	
ICV01	Q2482267		BENZOIC ACID	50.0			53.7	ug/L	107.4	
ICV01	Q2482267		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	50.0			61.7	ug/L	123.4	
ICV01	Q2482267		2-CHLOROPHENOL	50.0			51.2	ug/L	102.4	
ICV01	Q2482267		2,4-DICHLOROPHENOL	50.0			54.2	ug/L	108.4	
ICV01	Q2482267		2,4-DIMETHYLPHENOL	50.0			52.5	ug/L	105	
ICV01	Q2482267		4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	50.0			50.2	ug/L	100.4	
ICV01	Q2482267		2,4-DINITROPHENOL	50.0			53.7	ug/L	107.4	
ICV01	Q2482267		2-METHYLPHENOL (O-CRESOL)	50.0			53.9	ug/L	107.8	
ICV01	Q2482267		4-METHYLPHENOL (P-CRESOL)	50.0			56.6	ug/L	113.2	
ICV01	Q2482267		2-NITROPHENOL	50.0			54	ug/L	108	
ICV01	Q2482267		4-NITROPHENOL	50.0			46.1	ug/L	92.2	
ICV01	Q2482267		PENTACHLOROPHENOL	50.0			47.8	ug/L	95.6	
ICV01	Q2482267		PHENOL	50.0			53	ug/L	106	
ICV01	Q2482267		2,3,4,6-TETRACHLOROPHENOL	50.0			53.3	ug/L	106.6	
ICV01	Q2482267		2,4,5-TRICHLOROPHENOL	50.0			54.8	ug/L	109.6	
ICV01	Q2482267		2,4,6-TRICHLOROPHENOL	50.0			52	ug/L	104	
CCVD	Q2484005		Analysis Date/Time: 27-Sep-11 13:54							
CCVD	Q2484005		ACENAPHTHENE	1.0976			1.1386			3.7
CCVD	Q2484005		ACENAPHTHYLENE	1.7268			1.7864			3.5
CCVD	Q2484005		ANTHRACENE	1.0803			1.1093			2.7
CCVD	Q2484005		BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	1.0214			1.0545			3.2
CCVD	Q2484005		BENZO(A)PYRENE	0.9171			0.9372			2.2
CCVD	Q2484005		BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	1.1303			1.1690			3.4
CCVD	Q2484005		BENZO(G,H,I)PERYLENE	0.6683			0.6823			2.1

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586877 Analyst: J MINNIEAR, II Run Date: 27-Sep-11
Analytical Reviewer: L SMITH Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCVD	Q2484005		BENZO(K)FLUORANTHENE	1.1592			1.1448			1.2
CCVD	Q2484005		BENZYL ALCOHOL	0.7438			0.7889			6.1
CCVD	Q2484005		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	0.5439			0.5980			9.9
CCVD	Q2484005		BIS(2-CHLOROETHOXY)METHANE	0.3364			0.3504			4.2
CCVD	Q2484005		BIS(2-CHLOROETHYL)ETHER	1.4034			1.2210			13
CCVD	Q2484005		BIS(2-CHLOROISOPROPYL)ETHER	1.8862			2.0049			6.3
CCVD	Q2484005		BIS(2-ETHYLHEXYL)PHTHALATE	0.7160			0.7761			8.4
CCVD	Q2484005		4-BROMODIPHENYL ETHER	0.2314			0.2387			3.2
CCVD	Q2484005		CARBAZOLE	0.8197			0.8116			1
CCVD	Q2484005		4-CHLOROANILINE	0.2971			0.3252			9.5
CCVD	Q2484005		2-CHLORONAPHTHALENE	1.0966			1.1308			3.1
CCVD	Q2484005		4-CHLOROPHENYL-PHENYLETHER	0.6168			0.6342			2.8
CCVD	Q2484005		CHRYSENE	1.0794			1.0997			1.9
CCVD	Q2484005		DIBENZ(A,H)ANTHRACENE	0.7061			0.6950			1.6
CCVD	Q2484005		DIBENZOFURAN	1.4572			1.5066			3.4
CCVD	Q2484005		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	1.5312			1.5648			2.2
CCVD	Q2484005		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	1.5760			1.6126			2.3
CCVD	Q2484005		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	1.6180			1.6186			0
CCVD	Q2484005		3,3'-DICHLOROBENZIDINE	0.2106			0.2387			13.3
CCVD	Q2484005		DIETHYLPHTHALATE	1.1352			1.1411			0.5
CCVD	Q2484005		DIMETHYLPHTHALATE	1.1904			1.2203			2.5
CCVD	Q2484005		DI-N-BUTYLPHTHALATE	1.0733			1.0795			0.6
CCVD	Q2484005		2,4-DINITROTOLUENE	0.3605			0.3717			3.1
CCVD	Q2484005		2,6-DINITROTOLUENE	0.2886			0.2929			1.5
CCVD	Q2484005		DI-N-OCTYLPHTHALATE	1.4260			1.5680			10
CCVD	Q2484005		FLUORANTHENE	0.9863			0.9795			0.7
CCVD	Q2484005		FLUORENE	1.2251			1.2523			2.2
CCVD	Q2484005		HEXACHLOROBENZENE	0.2441			0.2470			1.2
CCVD	Q2484005		HEXACHLOROBUTADIENE	0.2134			0.2193			2.8
CCVD	Q2484005		HEXACHLOROCYCLOPENTADIENE	0.4623			0.4733			2.4
CCVD	Q2484005		HEXACHLOROETHANE	0.5988			0.6178			3.2
CCVD	Q2484005		INDENO(1,2,3-CD)PYRENE	0.8465			0.8037			5.1
CCVD	Q2484005		ISOPHORONE	0.5619			0.5695			1.4
CCVD	Q2484005		2-METHYLNAPHTHALENE	0.7481			0.7807			4.4
CCVD	Q2484005		NAPHTHALENE	0.9600			0.9951			3.7
CCVD	Q2484005		2-NITROANILINE (O-NITROANILINE)	0.2666			0.2783			4.4
CCVD	Q2484005		3-NITROANILINE (M-NITROANILINE)	0.2046			0.2310			12.9
CCVD	Q2484005		4-NITROANILINE (P-NITROANILINE)	0.1961			0.1921			2
CCVD	Q2484005		NITROBENZENE	0.3466			0.3573			3.1
CCVD	Q2484005		N-NITROSODIPHENYLAMINE	0.5330			0.5503			3.2
CCVD	Q2484005		N-NITROSO-DI-N-PROPYLAMINE	0.8036			0.8812			9.7
CCVD	Q2484005		PHENANTHRENE	1.0738			1.0957			2
CCVD	Q2484005		2-PICOLINE (2-METHYLPYRIDINE)	1.2850			1.2738			0.9
CCVD	Q2484005		PYRENE	1.6708			1.7488			4.7
CCVD	Q2484005		PYRIDINE	1.3066			1.2464			4.6

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586877 Analyst: J MINNIEAR, II Run Date: 27-Sep-11
Analytical Reviewer: L SMITH Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCVD	Q2484005		1,2,4,5-TETRACHLOROBENZENE	0.5592			0.5740			2.6
CCVD	Q2484005		TOLUENEDIAMINE	50.000		LIN	55.067			10.1
CCVD	Q2484005		1,2,4-TRICHLOROBENZENE	0.3479			0.3596			3.4
CCVD	Q2484005		BENZOIC ACID	50.000		LIN	53.881			7.8
CCVD	Q2484005		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	0.2698			0.2876			6.6
CCVD	Q2484005		2-CHLOROPHENOL	1.3283			1.4081			6
CCVD	Q2484005		2,4-DICHLOROPHENOL	0.2785			0.2892			3.8
CCVD	Q2484005		2,4-DIMETHYLPHENOL	0.3230			0.3422			5.9
CCVD	Q2484005		4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	0.1536			0.1573			2.4
CCVD	Q2484005		2,4-DINITROPHENOL	0.1635			0.1621			0.9
CCVD	Q2484005		2-METHYLPHENOL (O-CRESOL)	1.0915			1.1905			9.1
CCVD	Q2484005		4-METHYLPHENOL (P-CRESOL)	1.0600			1.1904			12.3
CCVD	Q2484005		2-NITROPHENOL	0.1841			0.1944			5.6
CCVD	Q2484005		4-NITROPHENOL	0.1110			0.1042			6.1
CCVD	Q2484005		PENTACHLOROPHENOL	0.1470			0.1491			1.4
CCVD	Q2484005		PHENOL	1.5041			1.6099			7
CCVD	Q2484005		2,3,4,6-TETRACHLOROPHENOL	0.2870			0.2965			3.3
CCVD	Q2484005		2,4,5-TRICHLOROPHENOL	0.3780			0.4044			7
CCVD	Q2484005		2,4,6-TRICHLOROPHENOL	0.3697			0.3875			4.8
CCVD	Q2484005		2-FLUOROPHENOL	1.2821			1.3088			2.1
CCVD	Q2484005		PHENOL-D5	1.6434			1.5869			3.4
CCVD	Q2484005		NITROBENZENE-D5	0.3489			0.3640			4.3
CCVD	Q2484005		2-FLUOROBIPHENYL	1.3154			1.3519			2.8
CCVD	Q2484005		2,4,6-TRIBROMOPHENOL	0.1283			0.1325			3.3
CCVD	Q2484005		TERPHENYL-D14	1.1631			1.2530			7.7
SAMPLE	A929118		Analysis Date/Time: 27-Sep-11 23:59							
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		Analysis Date/Time: 28-Sep-11 00:37							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
SAMPLE	A929120		Analysis Date/Time: 28-Sep-11 01:15							
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							

Q2482266 Value reported for analytes calibrated by linear (LIN) or
Q2482266 Value reported for analytes calibrated by linear (LIN) or
Q2482266 quadratic (QDR) equations is r2 (Coef. of Determination).
Q2482266 quadratic (QDR) equations is r2 (Coef. of Determination).
Q2482267 *Outside method limits.
Q2482267 *Outside method limits.
Q2484005 Value reported for analytes calibrated by linear (LIN) or quadratic (QDR)
Q2484005 Value reported for analytes calibrated by linear (LIN) or quadratic (QDR)
Q2484005 equations is concentration.
Q2484005 equations is concentration.

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11 Instrument: GC/MS SVOA
Analytical Reviewer: L SMITH Review Date: 29-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2482266		Analysis Date/Time: 23-Sep-11 13:55							

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SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2482266		ACENAPHTHENE	1.0976						2
CAL01	Q2482266		ACENAPHTHYLENE	1.7268						1.9
CAL01	Q2482266		ANTHRACENE	1.0803						4.4
CAL01	Q2482266		BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	1.0214						2.2
CAL01	Q2482266		BENZO(A)PYRENE	0.9171						3.6
CAL01	Q2482266		BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	1.1303						3.4
CAL01	Q2482266		BENZO(G,H,I)PERYLENE	0.6683						9.8
CAL01	Q2482266		BENZO(K)FLUORANTHENE	1.1592						2.3
CAL01	Q2482266		BENZYL ALCOHOL	0.7438						7.1
CAL01	Q2482266		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	0.5439						3.6
CAL01	Q2482266		BIS(2-CHLOROETHOXY)METHANE	0.3364						3.7
CAL01	Q2482266		BIS(2-CHLOROETHYL)ETHER	1.4034						6.3
CAL01	Q2482266		BIS(2-CHLOROISOPROPYL)ETHER	1.8862						4.1
CAL01	Q2482266		BIS(2-ETHYLHEXYL)PHTHALATE	0.7160						5.3
CAL01	Q2482266		4-BROMODIPHENYL ETHER	0.2314						3.7
CAL01	Q2482266		CARBAZOLE	0.8197						6.1
CAL01	Q2482266		4-CHLOROANILINE	0.2971						11.3
CAL01	Q2482266		2-CHLORONAPHTHALENE	1.0966						1.7
CAL01	Q2482266		4-CHLOROPHENYL-PHENYLETHER	0.6168						1.9
CAL01	Q2482266		CHRYSENE	1.0794						2.1
CAL01	Q2482266		DIBENZ(A,H)ANTHRACENE	0.7061						12.5
CAL01	Q2482266		DIBENZOFURAN	1.4572						2
CAL01	Q2482266		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	1.5312						2.3
CAL01	Q2482266		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	1.5760						2.2
CAL01	Q2482266		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	1.6180						2.4
CAL01	Q2482266		3,3'-DICHLOROBENZIDINE	0.2106						7.7
CAL01	Q2482266		DIETHYLPHTHALATE	1.1352						3.4
CAL01	Q2482266		DIMETHYLPHTHALATE	1.1904						2.2
CAL01	Q2482266		DI-N-BUTYLPHTHALATE	1.0733						9.4
CAL01	Q2482266		2,4-DINITROTOLUENE	0.3605						3.9
CAL01	Q2482266		2,6-DINITROTOLUENE	0.2886						1.9
CAL01	Q2482266		DI-N-OCTYLPHTHALATE	1.4260						4.6
CAL01	Q2482266		FLUORANTHENE	0.9863						12
CAL01	Q2482266		FLUORENE	1.2251						2.4
CAL01	Q2482266		HEXACHLOROBENZENE	0.2441						2.5
CAL01	Q2482266		HEXACHLOROBUTADIENE	0.2134						1.9
CAL01	Q2482266		HEXACHLOROCYCLOPENTADIENE	0.4623						5.7
CAL01	Q2482266		HEXACHLOROETHANE	0.5988						2.6
CAL01	Q2482266		INDENO(1,2,3-CD)PYRENE	0.8465						9.8
CAL01	Q2482266		ISOPHORONE	0.5619						4.4
CAL01	Q2482266		2-METHYLNAPHTHALENE	0.7481						2.2
CAL01	Q2482266		NAPHTHALENE	0.9600						2.1
CAL01	Q2482266		2-NITROANILINE (O-NITROANILINE)	0.2666						8.1
CAL01	Q2482266		3-NITROANILINE (M-NITROANILINE)	0.2046						10.6

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2482266		4-NITROANILINE (P-NITROANILINE)	0.1961						14.6
CAL01	Q2482266		NITROBENZENE	0.3466						3.9
CAL01	Q2482266		N-NITROSODIPHENYLAMINE	0.5330						3.1
CAL01	Q2482266		N-NITROSO-DI-N-PROPYLAMINE	0.8036						4.9
CAL01	Q2482266		PHENANTHRENE	1.0738						1.9
CAL01	Q2482266		2-PICOLINE (2-METHYLPYRIDINE)	1.2850						10.2
CAL01	Q2482266		PYRENE	1.6708						4.5
CAL01	Q2482266		PYRIDINE	1.3066						7
CAL01	Q2482266		1,2,4,5-TETRACHLOROBENZENE	0.5592						2.1
CAL01	Q2482266		TOLUENEDIAMINE			LIN				0.996
CAL01	Q2482266		1,2,4-TRICHLOROBENZENE	0.3479						1.8
CAL01	Q2482266		BENZOIC ACID			LIN				0.990
CAL01	Q2482266		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	0.2698						6
CAL01	Q2482266		2-CHLOROPHENOL	1.3283						3.5
CAL01	Q2482266		2,4-DICHLOROPHENOL	0.2785						4.1
CAL01	Q2482266		2,4-DIMETHYLPHENOL	0.3230						4.1
CAL01	Q2482266		4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	0.1536						2.3
CAL01	Q2482266		2,4-DINITROPHENOL	0.1635						13.5
CAL01	Q2482266		2-METHYLPHENOL (O-CRESOL)	1.0915						4.7
CAL01	Q2482266		4-METHYLPHENOL (P-CRESOL)	1.0600						6.3
CAL01	Q2482266		2-NITROPHENOL	0.1841						8.4
CAL01	Q2482266		4-NITROPHENOL	0.1110						9.3
CAL01	Q2482266		PENTACHLOROPHENOL	0.1470						5.1
CAL01	Q2482266		PHENOL	1.5041						5.9
CAL01	Q2482266		2,3,4,6-TETRACHLOROPHENOL	0.2870						9
CAL01	Q2482266		2,4,5-TRICHLOROPHENOL	0.3780						7.6
CAL01	Q2482266		2,4,6-TRICHLOROPHENOL	0.3697						5
CAL01	Q2482266		2-FLUOROPHENOL	1.2821						9.1
CAL01	Q2482266		PHENOL-D5	1.6434						5.4
CAL01	Q2482266		NITROBENZENE-D5	0.3489						2.7
CAL01	Q2482266		2-FLUOROBIPHENYL	1.3154						1.5
CAL01	Q2482266		2,4,6-TRIBROMOPHENOL	0.1283						6.8
CAL01	Q2482266		TERPHENYL-D14	1.1631						3.9
ICV01	Q2482267		Analysis Date/Time: 23-Sep-11 17:44							
ICV01	Q2482267		ACENAPHTHENE	50.0			53.5	ug/L	107	
ICV01	Q2482267		ACENAPHTHYLENE	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		ANTHRACENE	50.0			53.5	ug/L	107	
ICV01	Q2482267		BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		BENZO(A)PYRENE	50.0			60.7	ug/L	121.4	
ICV01	Q2482267		BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	50.0			54.8	ug/L	109.6	
ICV01	Q2482267		BENZO(G,H,I)PERYLENE	50.0			50	ug/L	100	
ICV01	Q2482267		BENZO(K)FLUORANTHENE	50.0			55.7	ug/L	111.4	
ICV01	Q2482267		BENZYL ALCOHOL	50.0			55.5	ug/L	111	
ICV01	Q2482267		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	50.0			53.7	ug/L	107.4	
ICV01	Q2482267		BIS(2-CHLOROETHOXY)METHANE	50.0			54	ug/L	108	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2482267		BIS(2-CHLOROETHYL)ETHER	50.0			43.8	ug/L	87.6	
ICV01	Q2482267		BIS(2-CHLOROISOPROPYL)ETHER	50.0			50.1	ug/L	100.2	
ICV01	Q2482267		BIS(2-ETHYLHEXYL)PHTHALATE	50.0			53.2	ug/L	106.4	
ICV01	Q2482267		4-BROMODIPHENYL ETHER	50.0			56.1	ug/L	112.2	
ICV01	Q2482267		CARBAZOLE	50.0			51.9	ug/L	103.8	
ICV01	Q2482267		4-CHLOROANILINE	50.0			61.3	ug/L	122.6	
ICV01	Q2482267		2-CHLORONAPHTHALENE	50.0			60.4	ug/L	120.8	
ICV01	Q2482267		4-CHLOROPHENYL-PHENYLETHER	50.0			52.9	ug/L	105.8	
ICV01	Q2482267		CHRYSENE	50.0			54.9	ug/L	109.8	
ICV01	Q2482267		DIBENZ(A,H)ANTHRACENE	50.0			54.5	ug/L	109	
ICV01	Q2482267		DIBENZOFURAN	50.0			54.2	ug/L	108.4	
ICV01	Q2482267		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	50.0			50	ug/L	100	
ICV01	Q2482267		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	50.0			50.6	ug/L	101.2	
ICV01	Q2482267		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	50.0			50.6	ug/L	101.2	
ICV01	Q2482267		3,3'-DICHLOROBENZIDINE	50.0		*	74.6	ug/L	149.2	
ICV01	Q2482267		DIETHYLPHTHALATE	50.0			52.1	ug/L	104.2	
ICV01	Q2482267		DIMETHYLPHTHALATE	50.0			53.8	ug/L	107.6	
ICV01	Q2482267		DI-N-BUTYLPHTHALATE	50.0			52.4	ug/L	104.8	
ICV01	Q2482267		2,4-DINITROTOLUENE	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		2,6-DINITROTOLUENE	50.0			51.2	ug/L	102.4	
ICV01	Q2482267		DI-N-OCTYLPHTHALATE	50.0			57.3	ug/L	114.6	
ICV01	Q2482267		FLUORANTHENE	50.0			50.9	ug/L	101.8	
ICV01	Q2482267		FLUORENE	50.0			52	ug/L	104	
ICV01	Q2482267		HEXACHLOROBENZENE	50.0			51.5	ug/L	103	
ICV01	Q2482267		HEXACHLOROBUTADIENE	50.0			50.3	ug/L	100.6	
ICV01	Q2482267		HEXACHLOROCYCLOPENTADIENE	50.0			40.7	ug/L	81.4	
ICV01	Q2482267		HEXACHLOROETHANE	50.0			49.5	ug/L	99	
ICV01	Q2482267		INDENO(1,2,3-CD)PYRENE	50.0			51	ug/L	102	
ICV01	Q2482267		ISOPHORONE	50.0			51.4	ug/L	102.8	
ICV01	Q2482267		2-METHYLNAPHTHALENE	50.0			64.9	ug/L	129.8	
ICV01	Q2482267		NAPHTHALENE	50.0			53.1	ug/L	106.2	
ICV01	Q2482267		2-NITROANILINE (O-NITROANILINE)	50.0			55	ug/L	110	
ICV01	Q2482267		3-NITROANILINE (M-NITROANILINE)	50.0		*	68.3	ug/L	136.6	
ICV01	Q2482267		4-NITROANILINE (P-NITROANILINE)	50.0			58.8	ug/L	117.6	
ICV01	Q2482267		NITROBENZENE	50.0			50	ug/L	100	
ICV01	Q2482267		N-NITROSODIPHENYLAMINE	100			101	ug/L	101	
ICV01	Q2482267		N-NITROSO-DI-N-PROPYLAMINE	50.0			51.9	ug/L	103.8	
ICV01	Q2482267		PHENANTHRENE	50.0			55.6	ug/L	111.2	
ICV01	Q2482267		2-PICOLINE (2-METHYLPYRIDINE)	50.0			43.3	ug/L	86.6	
ICV01	Q2482267		PYRENE	50.0			54.4	ug/L	108.8	
ICV01	Q2482267		PYRIDINE	50.0			50.6	ug/L	101.2	
ICV01	Q2482267		1,2,4,5-TETRACHLOROBENZENE	50.0			53.2	ug/L	106.4	
ICV01	Q2482267		TOLUENEDIAMINE	50.0			49.3	ug/L	98.6	
ICV01	Q2482267		1,2,4-TRICHLOROBENZENE	50.0			51	ug/L	102	
ICV01	Q2482267		BENZOIC ACID	50.0			53.7	ug/L	107.4	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2482267		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	50.0			61.7	ug/L	123.4	
ICV01	Q2482267		2-CHLOROPHENOL	50.0			51.2	ug/L	102.4	
ICV01	Q2482267		2,4-DICHLOROPHENOL	50.0			54.2	ug/L	108.4	
ICV01	Q2482267		2,4-DIMETHYLPHENOL	50.0			52.5	ug/L	105	
ICV01	Q2482267		4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	50.0			50.2	ug/L	100.4	
ICV01	Q2482267		2,4-DINITROPHENOL	50.0			53.7	ug/L	107.4	
ICV01	Q2482267		2-METHYLPHENOL (O-CRESOL)	50.0			53.9	ug/L	107.8	
ICV01	Q2482267		4-METHYLPHENOL (P-CRESOL)	50.0			56.6	ug/L	113.2	
ICV01	Q2482267		2-NITROPHENOL	50.0			54	ug/L	108	
ICV01	Q2482267		4-NITROPHENOL	50.0			46.1	ug/L	92.2	
ICV01	Q2482267		PENTACHLOROPHENOL	50.0			47.8	ug/L	95.6	
ICV01	Q2482267		PHENOL	50.0			53	ug/L	106	
ICV01	Q2482267		2,3,4,6-TETRACHLOROPHENOL	50.0			53.3	ug/L	106.6	
ICV01	Q2482267		2,4,5-TRICHLOROPHENOL	50.0			54.8	ug/L	109.6	
ICV01	Q2482267		2,4,6-TRICHLOROPHENOL	50.0			52	ug/L	104	
CCVD	Q2484461		Analysis Date/Time: 28-Sep-11 13:04							
CCVD	Q2484461		ACENAPHTHENE	1.0976			1.1383			3.7
CCVD	Q2484461		ACENAPHTHYLENE	1.7268			1.7857			3.4
CCVD	Q2484461		ANTHRACENE	1.0803			1.1343			5
CCVD	Q2484461		BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	1.0214			1.0502			2.8
CCVD	Q2484461		BENZO(A)PYRENE	0.9171			0.9572			4.4
CCVD	Q2484461		BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	1.1303			1.2277			8.6
CCVD	Q2484461		BENZO(G,H,I)PERYLENE	0.6683			0.6384			4.5
CCVD	Q2484461		BENZO(K)FLUORANTHENE	1.1592			1.1774			1.6
CCVD	Q2484461		BENZYL ALCOHOL	0.7438			0.8009			7.7
CCVD	Q2484461		BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	0.5439			0.5946			9.3
CCVD	Q2484461		BIS(2-CHLOROETHOXY)METHANE	0.3364			0.3519			4.6
CCVD	Q2484461		BIS(2-CHLOROETHYL)ETHER	1.4034			1.2239			12.8
CCVD	Q2484461		BIS(2-CHLOROISOPROPYL)ETHER	1.8862			2.0824			10.4
CCVD	Q2484461		BIS(2-ETHYLHEXYL)PHTHALATE	0.7160			0.7695			7.5
CCVD	Q2484461		4-BROMODIPHENYL ETHER	0.2314			0.2377			2.7
CCVD	Q2484461		CARBAZOLE	0.8197			0.8246			0.6
CCVD	Q2484461		4-CHLOROANILINE	0.2971			0.3244			9.2
CCVD	Q2484461		2-CHLORONAPHTHALENE	1.0966			1.1178			1.9
CCVD	Q2484461		4-CHLOROPHENYL-PHENYLETHER	0.6168			0.6378			3.4
CCVD	Q2484461		CHRYSENE	1.0794			1.1027			2.2
CCVD	Q2484461		DIBENZ(A,H)ANTHRACENE	0.7061			0.6660			5.7
CCVD	Q2484461		DIBENZOFURAN	1.4572			1.5016			3
CCVD	Q2484461		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	1.5312			1.5891			3.8
CCVD	Q2484461		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	1.5760			1.6197			2.8
CCVD	Q2484461		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	1.6180			1.6322			0.9
CCVD	Q2484461		3,3'-DICHLOROBENZIDINE	0.2106			0.2321			10.2
CCVD	Q2484461		DIETHYLPHTHALATE	1.1352			1.1735			3.4

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCVD	Q2484461		DIMETHYLPHTHALATE	1.1904			1.2370			3.9
CCVD	Q2484461		DI-N-BUTYLPHTHALATE	1.0733			1.0956			2.1
CCVD	Q2484461		2,4-DINITROTOLUENE	0.3605			0.3789			5.1
CCVD	Q2484461		2,6-DINITROTOLUENE	0.2886			0.2982			3.3
CCVD	Q2484461		DI-N-OCTYLPHTHALATE	1.4260			1.5923			11.7
CCVD	Q2484461		FLUORANTHENE	0.9863			0.9909			0.5
CCVD	Q2484461		FLUORENE	1.2251			1.2664			3.4
CCVD	Q2484461		HEXACHLOROBENZENE	0.2441			0.2514			3
CCVD	Q2484461		HEXACHLOROBUTADIENE	0.2134			0.2165			1.5
CCVD	Q2484461		HEXACHLOROCYCLOPENTADIENE	0.4623			0.4631			0.2
CCVD	Q2484461		HEXACHLOROETHANE	0.5988			0.6165			3
CCVD	Q2484461		INDENO(1,2,3-CD)PYRENE	0.8465			0.8083			4.5
CCVD	Q2484461		ISOPHORONE	0.5619			0.5699			1.4
CCVD	Q2484461		2-METHYLNAPHTHALENE	0.7481			0.7802			4.3
CCVD	Q2484461		NAPHTHALENE	0.9600			0.9906			3.2
CCVD	Q2484461		2-NITROANILINE (O-NITROANILINE)	0.2666			0.2879			8
CCVD	Q2484461		3-NITROANILINE (M-NITROANILINE)	0.2046			0.2383			16.5
CCVD	Q2484461		4-NITROANILINE (P-NITROANILINE)	0.1961			0.1880			4.1
CCVD	Q2484461		NITROBENZENE	0.3466			0.3623			4.5
CCVD	Q2484461		N-NITROSODIPHENYLAMINE	0.5330			0.5514			3.5
CCVD	Q2484461		N-NITROSO-DI-N-PROPYLAMINE	0.8036			0.8865			10.3
CCVD	Q2484461		PHENANTHRENE	1.0738			1.1145			3.8
CCVD	Q2484461		2-PICOLINE (2-METHYLPYRIDINE)	1.2850			1.4144			10.1
CCVD	Q2484461		PYRENE	1.6708			1.7645			5.6
CCVD	Q2484461		PYRIDINE	1.3066			1.3131			0.5
CCVD	Q2484461		1,2,4,5-TETRACHLOROBENZENE	0.5592			0.5631			0.7
CCVD	Q2484461		TOLUENEDIAMINE	50.000		LIN	53.921			7.8
CCVD	Q2484461		1,2,4-TRICHLOROBENZENE	0.3479			0.3548			2
CCVD	Q2484461		BENZOIC ACID	50.000		LIN	53.842			7.7
CCVD	Q2484461		4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	0.2698			0.2919			8.2
CCVD	Q2484461		2-CHLOROPHENOL	1.3283			1.4127			6.4
CCVD	Q2484461		2,4-DICHLOROPHENOL	0.2785			0.2871			3.1
CCVD	Q2484461		2,4-DIMETHYLPHENOL	0.3230			0.3400			5.3
CCVD	Q2484461		4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	0.1536			0.1613			5
CCVD	Q2484461		2,4-DINITROPHENOL	0.1635			0.1683			2.9
CCVD	Q2484461		2-METHYLPHENOL (O-CRESOL)	1.0915			1.1868			8.7
CCVD	Q2484461		4-METHYLPHENOL (P-CRESOL)	1.0600			1.1608			9.5
CCVD	Q2484461		2-NITROPHENOL	0.1841			0.1973			7.2
CCVD	Q2484461		4-NITROPHENOL	0.1110			0.1068			3.8
CCVD	Q2484461		PENTACHLOROPHENOL	0.1470			0.1489			1.3
CCVD	Q2484461		PHENOL	1.5041			1.6363			8.8
CCVD	Q2484461		2,3,4,6-TETRACHLOROPHENOL	0.2870			0.2974			3.6
CCVD	Q2484461		2,4,5-TRICHLOROPHENOL	0.3780			0.3964			4.9
CCVD	Q2484461		2,4,6-TRICHLOROPHENOL	0.3697			0.3833			3.7
CCVD	Q2484461		2-FLUOROPHENOL	1.2821			1.2742			0.6
CCVD	Q2484461		PHENOL-D5	1.6434			1.5636			4.9

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCVD	Q2484461		NITROBENZENE-D5	0.3489			0.3617			3.7
CCVD	Q2484461		2-FLUOROBIPHENYL	1.3154			1.3347			1.5
CCVD	Q2484461		2,4,6-TRIBROMOPHENOL	0.1283			0.1340			4.4
CCVD	Q2484461		TERPHENYL-D14	1.1631			1.2289			5.7
LCS	Q2482263	HLI	Analysis Date/Time: 28-Sep-11 14:19							
LCS	Q2482263	HLI	ACENAPHTHENE	100			105	ug/L	105	
LCS	Q2482263	HLI	ACENAPHTHYLENE	100			101	ug/L	101	
LCS	Q2482263	HLI	ANTHRACENE	100			101	ug/L	101	
LCS	Q2482263	HLI	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	100			102	ug/L	102	
LCS	Q2482263	HLI	BENZO(A)PYRENE	100			118	ug/L	118	
LCS	Q2482263	HLI	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	100			113	ug/L	113	
LCS	Q2482263	HLI	BENZO(G,H,I)PERYLENE	100			103	ug/L	103	
LCS	Q2482263	HLI	BENZO(K)FLUORANTHENE	100			104	ug/L	104	
LCS	Q2482263	HLI	BENZYL ALCOHOL	100			96	ug/L	96	
LCS	Q2482263	HLI	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	100		!	108	ug/L	108	
LCS	Q2482263	HLI	BIS(2-CHLOROETHOXY)METHANE	100			102	ug/L	102	
LCS	Q2482263	HLI	BIS(2-CHLOROETHYL)ETHER	100			81.1	ug/L	81.1	
LCS	Q2482263	HLI	BIS(2-CHLOROISOPROPYL)ETHER	100			99.9	ug/L	99.9	
LCS	Q2482263	HLI	BIS(2-ETHYLHEXYL)PHTHALATE	100			105	ug/L	105	
LCS	Q2482263	HLI	4-BROMODIPHENYL ETHER	100		!	115	ug/L	115	
LCS	Q2482263	HLI	CARBAZOLE	100			96.9	ug/L	96.9	
LCS	Q2482263	HLI	4-CHLOROANILINE	100			118	ug/L	118	
LCS	Q2482263	HLI	2-CHLORONAPHTHALENE	100			127	ug/L	127	
LCS	Q2482263	HLI	4-CHLOROPHENYL-PHENYLETHER	100			103	ug/L	103	
LCS	Q2482263	HLI	CHRYSENE	100		!	109	ug/L	109	
LCS	Q2482263	HLI	DIBENZ(A,H)ANTHRACENE	100			108	ug/L	108	
LCS	Q2482263	HLI	DIBENZOFURAN	100			106	ug/L	106	
LCS	Q2482263	HLI	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	100			91.7	ug/L	91.7	
LCS	Q2482263	HLI	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	100			89.3	ug/L	89.3	
LCS	Q2482263	HLI	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	100			89.6	ug/L	89.6	
LCS	Q2482263	HLI	3,3'-DICHLOROBENZIDINE	100			146	ug/L	146	
LCS	Q2482263	HLI	DIETHYLPHTHALATE	100			101	ug/L	101	
LCS	Q2482263	HLI	DIMETHYLPHTHALATE	100			102	ug/L	102	
LCS	Q2482263	HLI	DI-N-BUTYLPHTHALATE	100			97	ug/L	97	
LCS	Q2482263	HLI	2,4-DINITROTOLUENE	100			101	ug/L	101	
LCS	Q2482263	HLI	2,6-DINITROTOLUENE	100			107	ug/L	107	
LCS	Q2482263	HLI	DI-N-OCTYLPHTHALATE	100			110	ug/L	110	
LCS	Q2482263	HLI	FLUORANTHENE	100			91.1	ug/L	91.1	
LCS	Q2482263	HLI	FLUORENE	100			102	ug/L	102	
LCS	Q2482263	HLI	HEXACHLOROBENZENE	100			105	ug/L	105	
LCS	Q2482263	HLI	HEXACHLOROBUTADIENE	100			94.4	ug/L	94.4	
LCS	Q2482263	HLI	HEXACHLOROCYCLOPENTADIENE	100			60.6	ug/L	60.6	
LCS	Q2482263	HLI	HEXACHLOROETHANE	100			88.8	ug/L	88.8	
LCS	Q2482263	HLI	INDENO(1,2,3-CD)PYRENE	100			101	ug/L	101	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2482263	HLI	ISOPHORONE	100			89.9	ug/L	89.9	
LCS	Q2482263	HLI	2-METHYLNAPHTHALENE	100			119	ug/L	119	
LCS	Q2482263	HLI	NAPHTHALENE	100			102	ug/L	102	
LCS	Q2482263	HLI	2-NITROANILINE (O-NITROANILINE)	100			113	ug/L	113	
LCS	Q2482263	HLI	3-NITROANILINE (M-NITROANILINE)	100			135	ug/L	135	
LCS	Q2482263	HLI	4-NITROANILINE (P-NITROANILINE)	100			112	ug/L	112	
LCS	Q2482263	HLI	NITROBENZENE	100			98.6	ug/L	98.6	
LCS	Q2482263	HLI	N-NITROSODIPHENYLAMINE	200			210	ug/L	105	
LCS	Q2482263	HLI	N-NITROSO-DI-N-PROPYLAMINE	100		!	99.1	ug/L	99.1	
LCS	Q2482263	HLI	PHENANTHRENE	100			110	ug/L	110	
LCS	Q2482263	HLI	2-PICOLINE (2-METHYLPYRIDINE)	100			66	ug/L	66	
LCS	Q2482263	HLI	PYRENE	100			113	ug/L	113	
LCS	Q2482263	HLI	PYRIDINE	100			54.2	ug/L	54.2	
LCS	Q2482263	HLI	1,2,4,5-TETRACHLOROBENZENE	100			105	ug/L	105	
LCS	Q2482263	HLI	1,2,4-TRICHLOROBENZENE	100			95.9	ug/L	95.9	
LCS	Q2482263	HLI	BENZOIC ACID	100			37	ug/L	37	
LCS	Q2482263	HLI	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	100			101	ug/L	101	
LCS	Q2482263	HLI	2-CHLOROPHENOL	100			97.1	ug/L	97.1	
LCS	Q2482263	HLI	2,4-DICHLOROPHENOL	100			98.9	ug/L	98.9	
LCS	Q2482263	HLI	2,4-DIMETHYLPHENOL	100			85.6	ug/L	85.6	
LCS	Q2482263	HLI	2,4-DINITROPHENOL	100			107	ug/L	107	
LCS	Q2482263	HLI	2-METHYLPHENOL (O-CRESOL)	100			92.4	ug/L	92.4	
LCS	Q2482263	HLI	4-METHYLPHENOL (P-CRESOL)	100			87	ug/L	87	
LCS	Q2482263	HLI	2-NITROPHENOL	100			105	ug/L	105	
LCS	Q2482263	HLI	4-NITROPHENOL	100			45.3	ug/L	45.3	
LCS	Q2482263	HLI	PENTACHLOROPHENOL	100			101	ug/L	101	
LCS	Q2482263	HLI	PHENOL	100			51.4	ug/L	51.4	
LCS	Q2482263	HLI	2,3,4,6-TETRACHLOROPHENOL	100			105	ug/L	105	
LCS	Q2482263	HLI	2,4,5-TRICHLOROPHENOL	100			107	ug/L	107	
LCS	Q2482263	HLI	2,4,6-TRICHLOROPHENOL	100			106	ug/L	106	
SPI02	Q2482328	A928984	Analysis Date/Time: 28-Sep-11 15:42							
SPI02	Q2482328	A928984	ACENAPHTHENE	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	ACENAPHTHYLENE	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	ANTHRACENE	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	0	100		100	ug/L	100	
SPI02	Q2482328	A928984	BENZO(A)PYRENE	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	0	100		104	ug/L	104	
SPI02	Q2482328	A928984	BENZO(G,H,I)PERYLENE	0	100		100	ug/L	100	
SPI02	Q2482328	A928984	BENZO(K)FLUORANTHENE	0	100		99.7	ug/L	99.7	
SPI02	Q2482328	A928984	BENZYL ALCOHOL	0	100		79.6	ug/L	79.6	
SPI02	Q2482328	A928984	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	BIS(2-CHLOROETHOXY)METHANE	0	100		96.5	ug/L	96.5	
SPI02	Q2482328	A928984	BIS(2-CHLOROETHYL)ETHER	0	100		79.6	ug/L	79.6	
SPI02	Q2482328	A928984	BIS(2-CHLOROISOPROPYL)ETHER	0	100		100	ug/L	100	
SPI02	Q2482328	A928984	BIS(2-ETHYLHEXYL)PHTHALATE	0	100		99.6	ug/L	99.6	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SPI02	Q2482328	A928984	4-BROMODIPHENYL ETHER	0	100		102	ug/L	102	
SPI02	Q2482328	A928984	CARBAZOLE	0	100		99.8	ug/L	99.8	
SPI02	Q2482328	A928984	4-CHLOROANILINE	0	100		97.2	ug/L	97.2	
SPI02	Q2482328	A928984	2-CHLORONAPHTHALENE	0	100		100	ug/L	100	
SPI02	Q2482328	A928984	4-CHLOROPHENYL-PHENYLETHER	0	100		100	ug/L	100	
SPI02	Q2482328	A928984	CHRYSENE	0	100		99.2	ug/L	99.2	
SPI02	Q2482328	A928984	DIBENZ(A,H)ANTHRACENE	0	100		102	ug/L	102	
SPI02	Q2482328	A928984	DIBENZOFURAN	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	0	100		95.6	ug/L	95.6	
SPI02	Q2482328	A928984	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	0	100		95.4	ug/L	95.4	
SPI02	Q2482328	A928984	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	0	100		93.6	ug/L	93.6	
SPI02	Q2482328	A928984	3,3'-DICHLOROBENZIDINE	0	100		126	ug/L	126	
SPI02	Q2482328	A928984	DIETHYLPHTHALATE	0	100		102	ug/L	102	
SPI02	Q2482328	A928984	DIMETHYLPHTHALATE	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	DI-N-BUTYLPHTHALATE	0	100		95.7	ug/L	95.7	
SPI02	Q2482328	A928984	2,4-DINITROTOLUENE	0	100		102	ug/L	102	
SPI02	Q2482328	A928984	2,6-DINITROTOLUENE	0	100	!	117	ug/L	117	
SPI02	Q2482328	A928984	DI-N-OCTYLPHTHALATE	0	100		106	ug/L	106	
SPI02	Q2482328	A928984	FLUORANTHENE	0	100		92.7	ug/L	92.7	
SPI02	Q2482328	A928984	FLUORENE	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	HEXACHLOROBENZENE	0	100		101	ug/L	101	
SPI02	Q2482328	A928984	HEXACHLOROBUTADIENE	0	100		95.4	ug/L	95.4	
SPI02	Q2482328	A928984	HEXACHLOROCYCLOPENTADIENE	0	100		90.2	ug/L	90.2	
SPI02	Q2482328	A928984	HEXACHLOROETHANE	0	100		95	ug/L	95	
SPI02	Q2482328	A928984	INDENO(1,2,3-CD)PYRENE	0	100		102	ug/L	102	
SPI02	Q2482328	A928984	ISOPHORONE	0	100		99.8	ug/L	99.8	
SPI02	Q2482328	A928984	2-METHYLNAPHTHALENE	0	100		115	ug/L	115	
SPI02	Q2482328	A928984	NAPHTHALENE	0	100		98.4	ug/L	98.4	
SPI02	Q2482328	A928984	2-NITROANILINE (O-NITROANILINE)	0	100		108	ug/L	108	
SPI02	Q2482328	A928984	3-NITROANILINE (M-NITROANILINE)	0	100		119	ug/L	119	
SPI02	Q2482328	A928984	4-NITROANILINE (P-NITROANILINE)	0	100		112	ug/L	112	
SPI02	Q2482328	A928984	NITROBENZENE	0	100		95.6	ug/L	95.6	
SPI02	Q2482328	A928984	N-NITROSODIPHENYLAMINE	0	100		105	ug/L	105	
SPI02	Q2482328	A928984	N-NITROSO-DI-N-PROPYLAMINE	0	100		98.2	ug/L	98.2	
SPI02	Q2482328	A928984	PHENANTHRENE	0	100		102	ug/L	102	
SPI02	Q2482328	A928984	2-PICOLINE (2-METHYLPYRIDINE)	0	100		44.5	ug/L	44.5	
SPI02	Q2482328	A928984	PYRENE	0	100		103	ug/L	103	
SPI02	Q2482328	A928984	PYRIDINE	0	100		38.8	ug/L	38.8	
SPI02	Q2482328	A928984	1,2,4,5-TETRACHLOROBENZENE	0	100		68.7	ug/L	68.7	
SPI02	Q2482328	A928984	1,2,4-TRICHLOROBENZENE	0	100		96.2	ug/L	96.2	
SPI02	Q2482328	A928984	BENZOIC ACID	0	100		34.8	ug/L	34.8	
SPI02	Q2482328	A928984	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	0	100		103	ug/L	103	
SPI02	Q2482328	A928984	2-CHLOROPHENOL	0	100		96.7	ug/L	96.7	
SPI02	Q2482328	A928984	2,4-DICHLOROPHENOL	0	100		97.2	ug/L	97.2	
SPI02	Q2482328	A928984	2,4-DIMETHYLPHENOL	0	100		72.8	ug/L	72.8	

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SPI02	Q2482328	A928984	4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	0	100		107	ug/L	107	
SPI02	Q2482328	A928984	2,4-DINITROPHENOL	0	100		109	ug/L	109	
SPI02	Q2482328	A928984	2-METHYLPHENOL (O-CRESOL)	0	100		84.1	ug/L	84.1	
SPI02	Q2482328	A928984	4-METHYLPHENOL (P-CRESOL)	0	100		78.2	ug/L	78.2	
SPI02	Q2482328	A928984	2-NITROPHENOL	0	100		103	ug/L	103	
SPI02	Q2482328	A928984	4-NITROPHENOL	0	100		42.6	ug/L	42.6	
SPI02	Q2482328	A928984	PENTACHLOROPHENOL	0	100		105	ug/L	105	
SPI02	Q2482328	A928984	PHENOL	0	100		45.5	ug/L	45.5	
SPI02	Q2482328	A928984	2,3,4,6-TETRACHLOROPHENOL	0	100		107	ug/L	107	
SPI02	Q2482328	A928984	2,4,5-TRICHLOROPHENOL	0	100		102	ug/L	102	
SPI02	Q2482328	A928984	2,4,6-TRICHLOROPHENOL	0	100		104	ug/L	104	
DPS02	Q2482329	A928984	Analysis Date/Time: 28-Sep-11 16:20							
DPS02	Q2482329	A928984	ACENAPHTHENE	0	100		95	ug/L	95	5.6
DPS02	Q2482329	A928984	ACENAPHTHYLENE	0	100		94.5	ug/L	94.5	6.4
DPS02	Q2482329	A928984	ANTHRACENE	0	100		93.7	ug/L	93.7	7.9
DPS02	Q2482329	A928984	BENZO(A)ANTHRACENE [(BENZO(A)ANTHRACENE]	0	100		94.9	ug/L	94.9	5.6
DPS02	Q2482329	A928984	BENZO(A)PYRENE	0	100		96	ug/L	96	5.6
DPS02	Q2482329	A928984	BENZO(B)FLUORANTHENE (3,4-BENZOFLUORANTHENE)	0	100		101	ug/L	100.9	2.6
DPS02	Q2482329	A928984	BENZO(G,H,I)PERYLENE	0	100		96.3	ug/L	96.3	3.9
DPS02	Q2482329	A928984	BENZO(K)FLUORANTHENE	0	100		93	ug/L	93	7
DPS02	Q2482329	A928984	BENZYL ALCOHOL	0	100		80.3	ug/L	80.3	0.9
DPS02	Q2482329	A928984	BENZYLBUTYLPHTHALATE (BUTYLBENZYLPHTHALATE)	0	100		95.2	ug/L	95.2	6.2
DPS02	Q2482329	A928984	BIS(2-CHLOROETHOXY)METHANE	0	100		93	ug/L	93	3.7
DPS02	Q2482329	A928984	BIS(2-CHLOROETHYL)ETHER	0	100		77	ug/L	77	3.3
DPS02	Q2482329	A928984	BIS(2-CHLOROISOPROPYL)ETHER	0	100		95.1	ug/L	95.1	5.4
DPS02	Q2482329	A928984	BIS(2-ETHYLHEXYL)PHTHALATE	0	100		94.3	ug/L	94.3	5.5
DPS02	Q2482329	A928984	4-BROMODIPHENYL ETHER	0	100		97	ug/L	97	5.1
DPS02	Q2482329	A928984	CARBAZOLE	0	100		92.4	ug/L	92.4	7.7
DPS02	Q2482329	A928984	4-CHLOROANILINE	0	100		92.3	ug/L	92.3	5.2
DPS02	Q2482329	A928984	2-CHLORONAPHTHALENE	0	100		94.9	ug/L	94.9	5.4
DPS02	Q2482329	A928984	4-CHLOROPHENYL-PHENYLETHER	0	100		93.7	ug/L	93.7	7
DPS02	Q2482329	A928984	CHRYSENE	0	100		94.2	ug/L	94.2	5.2
DPS02	Q2482329	A928984	DIBENZ(A,H)ANTHRACENE	0	100		96.4	ug/L	96.4	5.4
DPS02	Q2482329	A928984	DIBENZOFURAN	0	100		94.3	ug/L	94.3	6.9
DPS02	Q2482329	A928984	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	0	100		91.4	ug/L	91.4	4.5
DPS02	Q2482329	A928984	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	0	100		90.5	ug/L	90.5	5.3
DPS02	Q2482329	A928984	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	0	100		89	ug/L	89	5
DPS02	Q2482329	A928984	3,3'-DICHLOROBENZIDINE	0	100		105	ug/L	105.3	17.7
DPS02	Q2482329	A928984	DIETHYLPHTHALATE	0	100		93.3	ug/L	93.3	8.7
DPS02	Q2482329	A928984	DIMETHYLPHTHALATE	0	100		94.2	ug/L	94.2	7.2
DPS02	Q2482329	A928984	DI-N-BUTYLPHTHALATE	0	100		88	ug/L	88	8.4
DPS02	Q2482329	A928984	2,4-DINITROTOLUENE	0	100		92	ug/L	92	9.9
DPS02	Q2482329	A928984	2,6-DINITROTOLUENE	0	100		101	ug/L	101.0	17.3
DPS02	Q2482329	A928984	DI-N-OCTYLPHTHALATE	0	100		101	ug/L	101	4.8

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DPS02	Q2482329	A928984	FLUORANTHENE	0	100		84.7	ug/L	84.7	9
DPS02	Q2482329	A928984	FLUORENE	0	100		93.3	ug/L	93.3	7.7
DPS02	Q2482329	A928984	HEXACHLOROBENZENE	0	100		95.1	ug/L	95.1	6.2
DPS02	Q2482329	A928984	HEXACHLOROBUTADIENE	0	100		90.6	ug/L	90.6	5.2
DPS02	Q2482329	A928984	HEXACHLOROCYCLOPENTADIENE	0	100		87	ug/L	87	3.6
DPS02	Q2482329	A928984	HEXACHLOROETHANE	0	100		91	ug/L	91	4.3
DPS02	Q2482329	A928984	INDENO(1,2,3-CD)PYRENE	0	100		96.3	ug/L	96.3	5.9
DPS02	Q2482329	A928984	ISOPHORONE	0	100		92.1	ug/L	92.1	8
DPS02	Q2482329	A928984	2-METHYLNAPHTHALENE	0	100		109	ug/L	108.7	5.5
DPS02	Q2482329	A928984	NAPHTHALENE	0	100		93.7	ug/L	93.7	4.9
DPS02	Q2482329	A928984	2-NITROANILINE (O-NITROANILINE)	0	100		101	ug/L	101.3	6.4
DPS02	Q2482329	A928984	3-NITROANILINE (M-NITROANILINE)	0	100		108	ug/L	108.4	9.2
DPS02	Q2482329	A928984	4-NITROANILINE (P-NITROANILINE)	0	100		97.8	ug/L	97.8	13.7
DPS02	Q2482329	A928984	NITROBENZENE	0	100		91.9	ug/L	91.9	3.9
DPS02	Q2482329	A928984	N-NITROSODIPHENYLAMINE	0	100		98.9	ug/L	98.9	5.7
DPS02	Q2482329	A928984	N-NITROSO-DI-N-PROPYLAMINE	0	100		94.3	ug/L	94.3	4.1
DPS02	Q2482329	A928984	PHENANTHRENE	0	100		96	ug/L	96	6.5
DPS02	Q2482329	A928984	2-PICOLINE (2-METHYLPYRIDINE)	0	100		46.4	ug/L	46.4	4.2
DPS02	Q2482329	A928984	PYRENE	0	100		97.8	ug/L	97.8	5
DPS02	Q2482329	A928984	PYRIDINE	0	100		39.1	ug/L	39.1	0.8
DPS02	Q2482329	A928984	1,2,4,5-TETRACHLOROBENZENE	0	100		65.8	ug/L	65.8	4.3
DPS02	Q2482329	A928984	1,2,4-TRICHLOROBENZENE	0	100		91.9	ug/L	91.9	4.6
DPS02	Q2482329	A928984	BENZOIC ACID	0	100		40.3	ug/L	40.3	14.6
DPS02	Q2482329	A928984	4-CHLORO-3-METHYLPHENOL (P-CHLORO-M-CRESOL)	0	100		97.7	ug/L	97.7	5.1
DPS02	Q2482329	A928984	2-CHLOROPHENOL	0	100		93.2	ug/L	93.2	3.7
DPS02	Q2482329	A928984	2,4-DICHLOROPHENOL	0	100		94.6	ug/L	94.6	2.7
DPS02	Q2482329	A928984	2,4-DIMETHYLPHENOL	0	100		73	ug/L	73	0.3
DPS02	Q2482329	A928984	4,6-DINITRO-O-CRESOL(2-METHYL-4,6-DINITROPHEN	0	100		99.9	ug/L	99.9	6.8
DPS02	Q2482329	A928984	2,4-DINITROPHENOL	0	100		97.7	ug/L	97.7	10.9
DPS02	Q2482329	A928984	2-METHYLPHENOL (O-CRESOL)	0	100		83.7	ug/L	83.7	0.5
DPS02	Q2482329	A928984	4-METHYLPHENOL (P-CRESOL)	0	100		79.9	ug/L	79.9	2.2
DPS02	Q2482329	A928984	2-NITROPHENOL	0	100		99.3	ug/L	99.3	3.3
DPS02	Q2482329	A928984	4-NITROPHENOL	0	100		46.5	ug/L	46.5	8.8
DPS02	Q2482329	A928984	PENTACHLOROPHENOL	0	100		97.3	ug/L	97.3	7.3
DPS02	Q2482329	A928984	PHENOL	0	100		50.7	ug/L	50.7	10.8
DPS02	Q2482329	A928984	2,3,4,6-TETRACHLOROPHENOL	0	100		96.3	ug/L	96.3	10.3
DPS02	Q2482329	A928984	2,4,5-TRICHLOROPHENOL	0	100		94.5	ug/L	94.5	7.4
DPS02	Q2482329	A928984	2,4,6-TRICHLOROPHENOL	0	100		98.8	ug/L	98.8	5.3
SAMPLE	A929121		Analysis Date/Time: 28-Sep-11 18:14							
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							

Q2482266 Value reported for analytes calibrated by linear (LIN) or
Q2482266 Value reported for analytes calibrated by linear (LIN) or
Q2482266 quadratic (QDR) equations is r2 (Coef. of Determination).
Q2482266 quadratic (QDR) equations is r2 (Coef. of Determination).
Q2482267 *Outside method limits.

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270C **O505.3**
Prep : GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510C

R586928 Analyst: J MINNIEAR, II Run Date: 28-Sep-11
Analytical Reviewer: L SMITH Review Date: 29-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
Q2482267	*Outside method limits.									
Q2484461	Value reported for analytes calibrated by linear (LIN) or quadratic (QDR)									
Q2484461	Value reported for analytes calibrated by linear (LIN) or quadratic (QDR)									
Q2484461	equations is concentration.									
Q2484461	equations is concentration.									

ARSENIC TRACE ICP SW846-6010B **M103.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586733							
SAMPLE	A929119	Rep: 0	Analytical Run: R586733							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	ARSENIC				0.00521	mg/L		
LCS	Q2481639	SPEX	ARSENIC	2			2.22	mg/L	111.0	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R587040							
SAMPLE	A929121	Rep: 0	Analytical Run: R587040							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2482549	PERKIN ELM	ARSENIC	1			1.01	mg/L	101.0	
CDL01	Q2482578	PERKIN	ARSENIC	0.02			0.0193	mg/L	96.5	

ARSENIC TRACE ICP SW846-6010B **M103.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586733 Analyst: J KRAMER Run Date: 24-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
		ELM								
ICS-AB	Q2482563	PERKIN ELM	ARSENIC	0.1			0.106	mg/L	106.0	
CCV	Q2482569	INORGANIC	ARSENIC	2			2.03	mg/L	101.5	
BLA01	Q2482555	NA	ARSENIC			<	0.00200	mg/L		
BLA02	Q2481642	NA	ARSENIC			<	0.00200	mg/L		
LCS	Q2481643	INORGANIC	ARSENIC	2			2.16	mg/L	108.0	
SER01	Q2482585	A928639	ARSENIC	0		CNA	0.00878	mg/L		
DUP02	Q2481644	A928639	ARSENIC	0		BDL		mg/L		
SPI02	Q2481645	A928639	ARSENIC	0	2		2.14	mg/L	107.0	
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2482570	INORGANIC	ARSENIC	2			2.01	mg/L	100.5	
BLA01	Q2482556	NA	ARSENIC				0.00228	mg/L		
SER01	Q2482587	A928993	ARSENIC	4.38		CNA	4.98	mg/kg		
CDL01	Q2482579	PERKIN ELM	ARSENIC	0.02			0.0204	mg/L	102.0	
ICS-AB	Q2482564	PERKIN ELM	ARSENIC	0.1			0.107	mg/L	107.0	

Q2482585 1:5 Dilution.
Q2482585 1:5 Dilution.

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	ARSENIC			<	0.000960	mg/L		
LCS	Q2482842	SPEX	ARSENIC	2			2.12	mg/L	106.0	
DUP02	Q2482843	A929121	ARSENIC	0.0306			0.0293	mg/L		4.3
SPI02	Q2482844	A929121	ARSENIC	0.0306	2		2.15	mg/L	106.0	

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2485331	INORGANIC	ARSENIC	0.005			0.00414	mg/L	82.8	
ICV01	Q2485330	PERKIN ELM	ARSENIC	1			1.00	mg/L	100.0	
CDL01	Q2485326	INORGANIC	ARSENIC	10			10.1	mg/L	101.0	
ICS-AB	Q2485321	PERKIN ELM	ARSENIC	0.1			0.105	mg/L	105.0	
LCCV	Q2485332	INORGANIC	ARSENIC	0.005			0.00471	mg/L	94.2	
CCV	Q2485345	INORGANIC	ARSENIC	2			2.07	mg/L	103.5	
BLA01	Q2485338	NA	ARSENIC			<	0.00200	mg/L		
BLA02	Q2482845	NA	ARSENIC			<	0.00200	mg/L		
LCS	Q2482846	INORGANIC	ARSENIC	2			2.12	mg/L	106.0	
SER01	Q2485352	A929121	ARSENIC	0.0302		CNA	0.0328	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
DUP02	Q2482847	A929121	ARSENIC	0.0302			0.0305	mg/L		1.0
SPI02	Q2482848	A929121	ARSENIC	0.0302	2		2.11	mg/L	104.0	
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							

ARSENIC TRACE ICP SW846-6010B **M103.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R587040 Analyst: J KRAMER Run Date: 01-Oct-11
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCV	Q2485346	INORGANIC	ARSENIC	2			2.08	mg/L	104.0	
BLA01	Q2485339	NA	ARSENIC			<	0.00200	mg/L		
CDL01	Q2485368	INORGANIC	ARSENIC	0.005			0.00390	mg/L	78.0	
ICS-AB	Q2485364	PERKIN ELM	ARSENIC	0.1			0.117	mg/L	117.0	

MERCURY CVAA SW846-7470A **M120.1**
Prep : MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470A

R586724 Analyst: W WATNESS Run Date: 27-Sep-11 Instrument: PREP
Prep Reviewer: S O'NEAL Review Date: 27-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2482430	LEEMAN	Analytical Run: R586805							
BLA02	Q2482431	NA	Analytical Run: R586805							
SPI02	Q2482432	A929288	Analytical Run: R586805							
DPS02	Q2482433	A929288	Analytical Run: R586805							
SPI01	Q2482441	A929288	Analytical Run: R586805							
SAMPLE	A929118	Rep: 0	Analytical Run: R586805							
SAMPLE	A929119	Rep: 0	Analytical Run: R586805							
SAMPLE	A929120	Rep: 0	Analytical Run: R586805							
SAMPLE	A929121	Rep: 0	Analytical Run: R586805							

R586805 Analyst: W WATNESS Run Date: 27-Sep-11 Instrument: CVAA
Analytical Reviewer: S ENDERSEN Review Date: 27-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2483381	LEEMAN	MERCURY	0.002			0.00200	mg/L	100.0	
CDL01	Q2483413	SPEX	MERCURY	0.0002			0.000164	mg/L	82.0	
LCS	Q2482430	LEEMAN	MERCURY	0.002			0.00207	mg/L	103.5	
BLA02	Q2482431	NA	MERCURY			<	0.000080	mg/L		
SER01	Q2482440	A929288	MERCURY	0		BDL		mg/L		
SPI02	Q2482432	A929288	MERCURY	0	0.001		0.00100	mg/L	100.0	
DPS02	Q2482433	A929288	MERCURY	0	0.001		0.000973	mg/L	97.3	2.7
SPI01	Q2482441	A929288	MERCURY	0	0.002		0.00193	mg/L	96.5	
CCV	Q2483389	SPEX	MERCURY	0.003			0.00318	mg/L	106.0	
BLA01	Q2483404	NA	MERCURY			<	0.000080	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CDL01	Q2483414	SPEX	MERCURY	0.0002			0.000178	mg/L	89.0	
CCV	Q2483390	SPEX	MERCURY	0.003			0.00314	mg/L	104.7	
BLA01	Q2483405	NA	MERCURY			<	0.000080	mg/L		
SER01	Q2482438	A928888	MERCURY	0		BDL		mg/L		

MAGNESIUM ICP SW846-6010B **M118.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
DUP02	Q2481644	A928639	Analytical Run: R586733							

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	MAGNESIUM	0.1			0.0958	mg/L	95.8	
ICV01	Q2481883	PERKIN ELM	MAGNESIUM	20			19.9	mg/L	99.5	
LCCV	Q2481937	INORGANIC	MAGNESIUM	0.1			0.0978	mg/L	97.8	
CDL01	Q2481929	INORGANIC	MAGNESIUM	0.1			0.0967	mg/L	96.7	
ICS-A	Q2481931	PERKIN-ELM	MAGNESIUM	500			529	mg/L	105.8	
ICS-AB	Q2481905	PERKIN ELM	MAGNESIUM	500			528	mg/L	105.6	
SER01	Q2481935	A929008	MAGNESIUM	12.4			12.3	mg/L		0.8
CCV	Q2481924	INORGANIC	MAGNESIUM	50.0			50.5	mg/L	101.0	
BLA01	Q2481903	NA	MAGNESIUM			<	0.0400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	MAGNESIUM	50.0			50.3	mg/L	100.6	
BLA01	Q2481904	NA	MAGNESIUM			<	0.0400	mg/L		
SER01	Q2482049	A928993	MAGNESIUM	2740			2860	mg/L		4.3
CDL01	Q2482047	INORGANIC	MAGNESIUM	0.1			0.0989	mg/L	98.9	
ICS-A	Q2482048	PERKIN-ELM	MAGNESIUM	500			538	mg/L	107.6	
ICS-AB	Q2482041	PERKIN ELM	MAGNESIUM	500			534	mg/L	106.8	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	MAGNESIUM			<	0.00132	mg/L		
LCS	Q2481639	SPEX	MAGNESIUM	100			109	mg/L	109.0	
SPI02	Q2481641	A928639	MAGNESIUM	140	100		241	mg/L	101.0	

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							

MAGNESIUM ICP SW846-6010B **M118.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
DUP02	Q2482847	A929121	Analytical Run: R587040							

R586733 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 24-Sep-11 — Review Date: 26-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2481644	A928639	MAGNESIUM	136			132	mg/L		3.0

R586848 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	MAGNESIUM				0.00166	mg/L		
LCS	Q2482842	SPEX	MAGNESIUM	100			103	mg/L	103.0	
DUP02	Q2482843	A929121	MAGNESIUM	19.4			20.2	mg/L		4.0
SPI02	Q2482844	A929121	MAGNESIUM	19.4	100		122	mg/L	102.6	

R586850 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	MAGNESIUM	0.1			0.103	mg/L	103.0	
ICV01	Q2483675	PERKIN ELM	MAGNESIUM	20			19.8	mg/L	99.0	
CDL01	Q2483669	INORGANIC	MAGNESIUM	0.1			0.103	mg/L	103.0	
ICS-A	Q2483671	PERKIN-ELM	MAGNESIUM	500			527	mg/L	105.4	
ICS-AB	Q2483657	PERKIN ELM	MAGNESIUM	500			521	mg/L	104.2	
LCCV	Q2483678	INORGANIC	MAGNESIUM	0.1			0.103	mg/L	103.0	
SER01	Q2483673	A929233	MAGNESIUM	223			210	mg/L		6.0
CCV	Q2483664	INORGANIC	MAGNESIUM	50.0			50.1	mg/L	100.2	
BLA01	Q2483654	NA	MAGNESIUM			<	0.0400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	MAGNESIUM	50.0			50.2	mg/L	100.4	
BLA01	Q2483655	NA	MAGNESIUM			<	0.0400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	MAGNESIUM	50.0			51.5	mg/L	103.0	
BLA01	Q2483656	NA	MAGNESIUM			<	0.0400	mg/L		
SER01	Q2483672	A929081	MAGNESIUM	11.7			11.1	mg/L		5.3
CDL01	Q2483734	INORGANIC	MAGNESIUM	0.1			0.123	mg/L	123.0	
ICS-A	Q2483735	PERKIN-ELM	MAGNESIUM	500			576	mg/L	115.2	
ICS-AB	Q2483729	PERKIN ELM	MAGNESIUM	500			575	mg/L	115.0	

Q2483672 1:5 Dilution.

MAGNESIUM ICP SW846-6010B **M118.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
Q2483672	1:5 Dilution.									
Q2483672	There was possible matrix interference for K and Na									
Q2483672	There was possible matrix interference for K and Na									
Q2483672	as indicated by the serial dilution results.									
Q2483672	as indicated by the serial dilution results.									
Q2483673	1:5 Dilution.									
Q2483673	1:5 Dilution.									

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2482847	A929121	MAGNESIUM	20.1			20.4	mg/L		1.5

MAGNESIUM ICP SW846-6010B **M118.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
DUP02	Q2481644	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	MAGNESIUM	0.1			0.0958	mg/L	95.8	
ICV01	Q2481883	PERKIN ELM	MAGNESIUM	20			19.9	mg/L	99.5	
LCCV	Q2481937	INORGANIC	MAGNESIUM	0.1			0.0978	mg/L	97.8	
CDL01	Q2481929	INORGANIC	MAGNESIUM	0.1			0.0967	mg/L	96.7	
ICS-A	Q2481931	PERKIN-ELM	MAGNESIUM	500			529	mg/L	105.8	
ICS-AB	Q2481905	PERKIN ELM	MAGNESIUM	500			528	mg/L	105.6	
SER01	Q2481935	A929008	MAGNESIUM	12.4			12.3	mg/L		0.8
CCV	Q2481924	INORGANIC	MAGNESIUM	50.0			50.5	mg/L	101.0	
BLA01	Q2481903	NA	MAGNESIUM			<	0.0400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	MAGNESIUM	50.0			50.3	mg/L	100.6	
BLA01	Q2481904	NA	MAGNESIUM			<	0.0400	mg/L		
SER01	Q2482049	A928993	MAGNESIUM	2740			2860	mg/L		4.3
CDL01	Q2482047	INORGANIC	MAGNESIUM	0.1			0.0989	mg/L	98.9	
ICS-A	Q2482048	PERKIN-	MAGNESIUM	500			538	mg/L	107.6	

MAGNESIUM ICP SW846-6010B **M118.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
		ELM								
ICS-AB	Q2482041	PERKIN ELM	MAGNESIUM	500			534	mg/L	106.8	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	MAGNESIUM			<	0.00132	mg/L		
LCS	Q2481639	SPEX	MAGNESIUM	100			109	mg/L	109.0	
SPI02	Q2481641	A928639	MAGNESIUM	140	100		241	mg/L	101.0	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
DUP02	Q2482847	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2481644	A928639	MAGNESIUM	136			132	mg/L		3.0

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	MAGNESIUM				0.00166	mg/L		
LCS	Q2482842	SPEX	MAGNESIUM	100			103	mg/L	103.0	
DUP02	Q2482843	A929121	MAGNESIUM	19.4			20.2	mg/L		4.0
SPI02	Q2482844	A929121	MAGNESIUM	19.4	100		122	mg/L	102.6	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	MAGNESIUM	0.1			0.103	mg/L	103.0	
ICV01	Q2483675	PERKIN ELM	MAGNESIUM	20			19.8	mg/L	99.0	

MAGNESIUM ICP SW846-6010B **M118.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CDL01	Q2483669	INORGANIC	MAGNESIUM	0.1			0.103	mg/L	103.0	
ICS-A	Q2483671	PERKIN-ELM	MAGNESIUM	500			527	mg/L	105.4	
ICS-AB	Q2483657	PERKIN ELM	MAGNESIUM	500			521	mg/L	104.2	
LCCV	Q2483678	INORGANIC	MAGNESIUM	0.1			0.103	mg/L	103.0	
SER01	Q2483673	A929233	MAGNESIUM	223			210	mg/L		6.0
CCV	Q2483664	INORGANIC	MAGNESIUM	50.0			50.1	mg/L	100.2	
BLA01	Q2483654	NA	MAGNESIUM			<	0.0400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	MAGNESIUM	50.0			50.2	mg/L	100.4	
BLA01	Q2483655	NA	MAGNESIUM			<	0.0400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	MAGNESIUM	50.0			51.5	mg/L	103.0	
BLA01	Q2483656	NA	MAGNESIUM			<	0.0400	mg/L		
SER01	Q2483672	A929081	MAGNESIUM	11.7			11.1	mg/L		5.3
CDL01	Q2483734	INORGANIC	MAGNESIUM	0.1			0.123	mg/L	123.0	
ICS-A	Q2483735	PERKIN-ELM	MAGNESIUM	500			576	mg/L	115.2	
ICS-AB	Q2483729	PERKIN ELM	MAGNESIUM	500			575	mg/L	115.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2482847	A929121	MAGNESIUM	20.1			20.4	mg/L		1.5

SILVER ICP SW846-6010B **M130.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

SILVER ICP SW846-6010B **M130.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	SILVER	0.0100			0.0103	mg/L	103.0	
ICV01	Q2481883	PERKIN ELM	SILVER	0.5			0.505	mg/L	101.0	
LCCV	Q2481937	INORGANIC	SILVER	0.0100			0.0103	mg/L	103.0	
CDL01	Q2481928	PERKIN ELM	SILVER	0.020			0.0208	mg/L	104.0	
ICS-AB	Q2481905	PERKIN ELM	SILVER	0.2			0.222	mg/L	111.0	
SER01	Q2481935	A929008	SILVER	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	SILVER	1.00			1.02	mg/L	102.0	
BLA01	Q2481903	NA	SILVER			<	0.000800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	SILVER	1.00			1.01	mg/L	101.0	
BLA01	Q2481904	NA	SILVER			<	0.000800	mg/L		
SER01	Q2482049	A928993	SILVER	0.0366		CNA	0.0538	mg/L		
CDL01	Q2482047	INORGANIC	SILVER	0.0100			0.0104	mg/L	104.0	
ICS-AB	Q2482041	PERKIN ELM	SILVER	0.2			0.222	mg/L	111.0	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	SILVER			<	0.000112	mg/L		
LCS	Q2481639	SPEX	SILVER	0.05			0.0544	mg/L	108.8	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD

SILVER ICP SW846-6010B **M130.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586733 Analyst: J KRAMER Run Date: 24-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	SILVER			<	0.000800	mg/L		
LCS	Q2481643	INORGANIC	SILVER	0.05			0.0556	mg/L	111.2	
DUP02	Q2481644	A928639	SILVER	0		BDL		mg/L		
SPI02	Q2481645	A928639	SILVER	0	0.05		0.0550	mg/L	110.0	

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	SILVER			<	0.000112	mg/L		
LCS	Q2482842	SPEX	SILVER	0.05			0.0530	mg/L	106.0	
DUP02	Q2482843	A929121	SILVER	0		BDL		mg/L		
SPI02	Q2482844	A929121	SILVER	0	0.050		0.0531	mg/L	106.2	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	SILVER	0.0100			0.0104	mg/L	104.0	
ICV01	Q2483675	PERKIN ELM	SILVER	0.5			0.506	mg/L	101.2	
CDL01	Q2483670	INORGANIC	SILVER	2			2.00	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	SILVER	0.2			0.221	mg/L	110.5	
LCCV	Q2483678	INORGANIC	SILVER	0.0100			0.0104	mg/L	104.0	
SER01	Q2483673	A929233	SILVER	0		BDL		mg/L		
CCV	Q2483664	INORGANIC	SILVER	1.00			1.02	mg/L	102.0	
BLA01	Q2483654	NA	SILVER			<	0.000800	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	SILVER	1.00			1.02	mg/L	102.0	
BLA01	Q2483655	NA	SILVER			<	0.000800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	SILVER	1.00			1.02	mg/L	102.0	
BLA01	Q2483656	NA	SILVER			<	0.000800	mg/L		
SER01	Q2483672	A929081	SILVER	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	SILVER	0.0100			0.0103	mg/L	103.0	
ICS-AB	Q2483729	PERKIN ELM	SILVER	0.2			0.220	mg/L	110.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

BLA02	Q2482845	NA	SILVER			<	0.000800	mg/L		

SILVER ICP SW846-6010B **M130.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R587040 Analyst: J KRAMER Run Date: 01-Oct-11
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2482846	INORGANIC	SILVER	0.05			0.0546	mg/L	109.2	
DUP02	Q2482847	A929121	SILVER	0		BDL		mg/L		
SPI02	Q2482848	A929121	SILVER	0	0.05		0.0533	mg/L	106.6	

CHROMIUM ICP SW846-6010B **M110.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	CHROMIUM	0.0100			0.00952	mg/L	95.2	
ICV01	Q2481883	PERKIN ELM	CHROMIUM	1			1.00	mg/L	100.0	
LCCV	Q2481937	INORGANIC	CHROMIUM	0.0100			0.0122	mg/L	122.0	
CDL01	Q2481928	PERKIN ELM	CHROMIUM	0.020			0.0216	mg/L	108.0	
ICS-AB	Q2481905	PERKIN ELM	CHROMIUM	0.500			0.490	mg/L	98.0	
SER01	Q2481935	A929008	CHROMIUM	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	CHROMIUM	5.00			4.94	mg/L	98.8	
BLA01	Q2481903	NA	CHROMIUM			<	0.000800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	CHROMIUM	5.00			4.92	mg/L	98.4	
BLA01	Q2481904	NA	CHROMIUM			<	0.000800	mg/L		
SER01	Q2482049	A928993	CHROMIUM	79.1			80.2	mg/L		1.4
CDL01	Q2482047	INORGANIC	CHROMIUM	0.0100			0.00951	mg/L	95.1	
ICS-AB	Q2482041	PERKIN ELM	CHROMIUM	0.500			0.490	mg/L	98.0	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	RQL	Observed	Units	Rec	RPD

CHROMIUM ICP SW846-6010B **M110.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586671 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab iD	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	CHROMIUM			<	0.000068	mg/L		
LCS	Q2481639	SPEX	CHROMIUM	0.2			0.208	mg/L	104.0	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	CHROMIUM			<	0.000800	mg/L		
LCS	Q2481643	INORGANIC	CHROMIUM	0.2			0.209	mg/L	104.5	
DUP02	Q2481644	A928639	CHROMIUM	0		BDL		mg/L		
SPI02	Q2481645	A928639	CHROMIUM	0	0.2		0.195	mg/L	97.5	

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	CHROMIUM			<	0.000068	mg/L		
LCS	Q2482842	SPEX	CHROMIUM	0.2			0.198	mg/L	99.0	
DUP02	Q2482843	A929121	CHROMIUM	0		BDL		mg/L		
SPI02	Q2482844	A929121	CHROMIUM	0	0.200		0.198	mg/L	99.0	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	CHROMIUM	0.0100			0.00959	mg/L	95.9	
ICV01	Q2483675	PERKIN ELM	CHROMIUM	1			0.999	mg/L	99.9	
CDL01	Q2483670	INORGANIC	CHROMIUM	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	CHROMIUM	0.500			0.486	mg/L	97.2	
LCCV	Q2483678	INORGANIC	CHROMIUM	0.0100			0.00958	mg/L	95.8	
SER01	Q2483673	A929233	CHROMIUM	0		BDL		mg/L		
CCV	Q2483664	INORGANIC	CHROMIUM	5.00			4.96	mg/L	99.2	
BLA01	Q2483654	NA	CHROMIUM			<	0.000800	mg/L		

CHROMIUM ICP SW846-6010B **M110.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	CHROMIUM	5.00			4.97	mg/L	99.4	
BLA01	Q2483655	NA	CHROMIUM			<	0.000800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	CHROMIUM	5.00			5.01	mg/L	100.2	
BLA01	Q2483656	NA	CHROMIUM			<	0.000800	mg/L		
SER01	Q2483672	A929081	CHROMIUM	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	CHROMIUM	0.0100			0.0104	mg/L	104.0	
ICS-AB	Q2483729	PERKIN ELM	CHROMIUM	0.500			0.511	mg/L	102.2	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 01-Oct-11 — Review Date: 03-Oct-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	CHROMIUM			<	0.000800	mg/L		
LCS	Q2482846	INORGANIC	CHROMIUM	0.2			0.205	mg/L	102.5	
DUP02	Q2482847	A929121	CHROMIUM	0		BDL		mg/L		
SPI02	Q2482848	A929121	CHROMIUM	0	0.2		0.200	mg/L	100.0	

COPPER ICP SW846-6010B **M112.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
DUP02	Q2481640	A928639	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	COPPER	0.01			0.00975	mg/L	97.5	
ICV01	Q2481883	PERKIN ELM	COPPER	1			0.997	mg/L	99.7	
LCCV	Q2481937	INORGANIC	COPPER	0.01			0.00978	mg/L	97.8	

COPPER ICP SW846-6010B **M112.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CDL01	Q2481928	PERKIN ELM	COPPER	0.050			0.0517	mg/L	103.4	
ICS-AB	Q2481905	PERKIN ELM	COPPER	0.500			0.532	mg/L	106.4	
SER01	Q2481935	A929008	COPPER	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	COPPER	5.00			4.89	mg/L	97.8	
BLA01	Q2481903	NA	COPPER			<	0.00400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	COPPER	5.00			4.88	mg/L	97.6	
BLA01	Q2481904	NA	COPPER			<	0.00400	mg/L		
SER01	Q2482049	A928993	COPPER	133			131	mg/L		1.5
CDL01	Q2482047	INORGANIC	COPPER	0.01			0.00997	mg/L	99.7	
ICS-AB	Q2482041	PERKIN ELM	COPPER	0.500			0.533	mg/L	106.6	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	COPPER			<	0.000132	mg/L		
LCS	Q2481639	SPEX	COPPER	0.25			0.266	mg/L	106.4	
DUP02	Q2481640	A928639	COPPER	0.00488			0.00480	mg/L		1.6
SPI02	Q2481641	A928639	COPPER	0.00488	0.250		0.266	mg/L	104.4	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	COPPER			<	0.000132	mg/L		
LCS	Q2482842	SPEX	COPPER	0.25			0.251	mg/L	100.4	
DUP02	Q2482843	A929121	COPPER	0.000631		CNA	0.000652	mg/L		
SPI02	Q2482844	A929121	COPPER	0.000631	0.250		0.250	mg/L	99.7	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

COPPER ICP SW846-6010B **M112.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	COPPER	0.01			0.0103	mg/L	103.0	
ICV01	Q2483675	PERKIN ELM	COPPER	1			0.994	mg/L	99.4	
CDL01	Q2483670	INORGANIC	COPPER	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	COPPER	0.500			0.528	mg/L	105.6	
LCCV	Q2483678	INORGANIC	COPPER	0.01			0.0101	mg/L	101.0	
SER01	Q2483673	A929233	COPPER	0.0106		CNA	0.0127	mg/L		
CCV	Q2483664	INORGANIC	COPPER	5.00			4.94	mg/L	98.8	
BLA01	Q2483654	NA	COPPER			<	0.00400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	COPPER	5.00			4.94	mg/L	98.8	
BLA01	Q2483655	NA	COPPER			<	0.00400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	COPPER	5.00			4.87	mg/L	97.4	
BLA01	Q2483656	NA	COPPER			<	0.00400	mg/L		
SER01	Q2483672	A929081	COPPER	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	COPPER	0.01			0.0108	mg/L	108.0	
ICS-AB	Q2483729	PERKIN ELM	COPPER	0.500			0.508	mg/L	101.6	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

COPPER ICP SW846-6010B **M112.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
DUP02	Q2481640	A928639	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	COPPER	0.01			0.00975	mg/L	97.5	
ICV01	Q2481883	PERKIN ELM	COPPER	1			0.997	mg/L	99.7	

COPPER ICP SW846-6010B **M112.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCCV	Q2481937	INORGANIC	COPPER	0.01			0.00978	mg/L	97.8	
CDL01	Q2481928	PERKIN ELM	COPPER	0.050			0.0517	mg/L	103.4	
ICS-AB	Q2481905	PERKIN ELM	COPPER	0.500			0.532	mg/L	106.4	
SER01	Q2481935	A929008	COPPER	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	COPPER	5.00			4.89	mg/L	97.8	
BLA01	Q2481903	NA	COPPER			<	0.00400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	COPPER	5.00			4.88	mg/L	97.6	
BLA01	Q2481904	NA	COPPER			<	0.00400	mg/L		
SER01	Q2482049	A928993	COPPER	133			131	mg/L		1.5
CDL01	Q2482047	INORGANIC	COPPER	0.01			0.00997	mg/L	99.7	
ICS-AB	Q2482041	PERKIN ELM	COPPER	0.500			0.533	mg/L	106.6	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	COPPER			<	0.000132	mg/L		
LCS	Q2481639	SPEX	COPPER	0.25			0.266	mg/L	106.4	
DUP02	Q2481640	A928639	COPPER	0.00488			0.00480	mg/L		1.6
SPI02	Q2481641	A928639	COPPER	0.00488	0.250		0.266	mg/L	104.4	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	COPPER			<	0.000132	mg/L		
LCS	Q2482842	SPEX	COPPER	0.25			0.251	mg/L	100.4	
DUP02	Q2482843	A929121	COPPER	0.000631		CNA	0.000652	mg/L		
SPI02	Q2482844	A929121	COPPER	0.000631	0.250		0.250	mg/L	99.7	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP

COPPER ICP SW846-6010B **M112.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	COPPER	0.01			0.0103	mg/L	103.0	
ICV01	Q2483675	PERKIN ELM	COPPER	1			0.994	mg/L	99.4	
CDL01	Q2483670	INORGANIC	COPPER	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	COPPER	0.500			0.528	mg/L	105.6	
LCCV	Q2483678	INORGANIC	COPPER	0.01			0.0101	mg/L	101.0	
SER01	Q2483673	A929233	COPPER	0.0106		CNA	0.0127	mg/L		
CCV	Q2483664	INORGANIC	COPPER	5.00			4.94	mg/L	98.8	
BLA01	Q2483654	NA	COPPER			<	0.00400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	COPPER	5.00			4.94	mg/L	98.8	
BLA01	Q2483655	NA	COPPER			<	0.00400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	COPPER	5.00			4.87	mg/L	97.4	
BLA01	Q2483656	NA	COPPER			<	0.00400	mg/L		
SER01	Q2483672	A929081	COPPER	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	COPPER	0.01			0.0108	mg/L	108.0	
ICS-AB	Q2483729	PERKIN ELM	COPPER	0.500			0.508	mg/L	101.6	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

SODIUM ICP SW846-6010B **M131.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 22-Sep-11 — Instrument: PREP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
DUP02	Q2481640	A928639	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							

R586668 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 22-Sep-11 — Review Date: 23-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2481883	PERKIN ELM	SODIUM	20			19.0	mg/L	95.0	
CDL01	Q2481929	INORGANIC	SODIUM	0.1			0.0682	mg/L	68.2	
SER01	Q2481935	A929008	SODIUM	13.9			12.0	mg/L		14.7

SODIUM ICP SW846-6010B **M131.3**

Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCV	Q2481924	INORGANIC	SODIUM	50			51.9	mg/L	103.8	
BLA01	Q2481903	NA	SODIUM			<	0.0400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	SODIUM	50			51.8	mg/L	103.6	
BLA01	Q2481904	NA	SODIUM			<	0.0400	mg/L		
SER01	Q2482049	A928993	SODIUM	644			579	mg/L		10.6
CDL01	Q2482047	INORGANIC	SODIUM	0.1			0.0717	mg/L	71.7	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	SODIUM			<	0.000360	mg/L		
LCS	Q2481639	SPEX	SODIUM	100			109	mg/L	109.0	
DUP02	Q2481640	A928639	SODIUM	108			107	mg/L		0.9
SPI02	Q2481641	A928639	SODIUM	108	100		218	mg/L	110.0	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	SODIUM			<	0.000360	mg/L		
LCS	Q2482842	SPEX	SODIUM	100			104	mg/L	104.0	
DUP02	Q2482843	A929121	SODIUM	15.8			16.5	mg/L		4.3
SPI02	Q2482844	A929121	SODIUM	15.8	100		120	mg/L	104.2	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2483675	PERKIN ELM	SODIUM	20			18.9	mg/L	94.5	
CDL01	Q2483669	INORGANIC	SODIUM	0.1			0.0668	mg/L	66.8	
SER01	Q2483673	A929233	SODIUM	1380			1310	mg/L		5.2

SODIUM ICP SW846-6010B **M131.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCV	Q2483664	INORGANIC	SODIUM	50			51.9	mg/L	103.8	
BLA01	Q2483654	NA	SODIUM			<	0.0400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	SODIUM	50			52.0	mg/L	104.0	
BLA01	Q2483655	NA	SODIUM			<	0.0400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	SODIUM	50			53.2	mg/L	106.4	
BLA01	Q2483656	NA	SODIUM			<	0.0400	mg/L		
SER01	Q2483672	A929081	SODIUM	59.5			51.1	mg/L		15.2
CDL01	Q2483734	INORGANIC	SODIUM	0.1			0.101	mg/L	101.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

SELENIUM TRACE ICP SW846-6010B **M128.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586733							
SAMPLE	A929119	Rep: 0	Analytical Run: R586733							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	SELENIUM				0.00608	mg/L		
LCS	Q2481639	SPEX	SELENIUM	2			2.18	mg/L	109.0	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							

SELENIUM TRACE ICP SW846-6010B **M128.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SAMPLE	A929120	Rep: 0	Analytical Run: R587040							
SAMPLE	A929121	Rep: 0	Analytical Run: R587040							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 24-Sep-11 — Review Date: 26-Sep-11 — Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2482549	PERKIN ELM	SELENIUM	1			0.996	mg/L	99.6	
CDL01	Q2482578	PERKIN ELM	SELENIUM	0.01			0.00621	mg/L	62.1	
ICS-AB	Q2482563	PERKIN ELM	SELENIUM	0.05			0.0565	mg/L	113.0	
CCV	Q2482569	INORGANIC	SELENIUM	2			2.01	mg/L	100.5	
BLA01	Q2482555	NA	SELENIUM			<	0.00200	mg/L		
BLA02	Q2481642	NA	SELENIUM			<	0.00200	mg/L		
LCS	Q2481643	INORGANIC	SELENIUM	2			2.16	mg/L	108.0	
SER01	Q2482585	A928639	SELENIUM	0		BDL		mg/L		
DUP02	Q2481644	A928639	SELENIUM	0		BDL		mg/L		
SPI02	Q2481645	A928639	SELENIUM	0	2		2.14	mg/L	107.0	
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2482570	INORGANIC	SELENIUM	2			1.99	mg/L	99.5	
BLA01	Q2482556	NA	SELENIUM			<	0.00200	mg/L		
SER01	Q2482587	A928993	SELENIUM	4.37		CNA	4.32	mg/kg		
CDL01	Q2482579	PERKIN ELM	SELENIUM	0.01			0.00769	mg/L	76.9	
ICS-AB	Q2482564	PERKIN ELM	SELENIUM	0.05			0.0564	mg/L	112.8	

Q2482585 1:5 Dilution.
Q2482585 1:5 Dilution.

R586848 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	SELENIUM				0.00284	mg/L		
LCS	Q2482842	SPEX	SELENIUM	2			2.10	mg/L	105.0	
DUP02	Q2482843	A929121	SELENIUM	0		BDL		mg/L		
SPI02	Q2482844	A929121	SELENIUM	0	2		2.13	mg/L	106.5	

R587040 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 01-Oct-11 — Review Date: 03-Oct-11 — Instrument: TRACE ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2485331	INORGANIC	SELENIUM	0.005			0.00391	mg/L	78.2	
ICV01	Q2485330	PERKIN ELM	SELENIUM	1			0.994	mg/L	99.4	

SELENIUM TRACE ICP SW846-6010B **M128.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R587040 Analyst: J KRAMER Run Date: 01-Oct-11
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CDL01	Q2485326	INORGANIC	SELENIUM	10			10.1	mg/L	101.0	
ICS-AB	Q2485321	PERKIN ELM	SELENIUM	0.05			0.0573	mg/L	114.6	
LCCV	Q2485332	INORGANIC	SELENIUM	0.005			0.00465	mg/L	93.0	
CCV	Q2485345	INORGANIC	SELENIUM	2			2.05	mg/L	102.5	
BLA01	Q2485338	NA	SELENIUM			<	0.00200	mg/L		
BLA02	Q2482845	NA	SELENIUM			<	0.00200	mg/L		
LCS	Q2482846	INORGANIC	SELENIUM	2			2.13	mg/L	106.5	
SER01	Q2485352	A929121	SELENIUM	0		CNA	0.00752	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
DUP02	Q2482847	A929121	SELENIUM	0		BDL		mg/L		
SPI02	Q2482848	A929121	SELENIUM	0	2		2.08	mg/L	104.0	
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2485346	INORGANIC	SELENIUM	2			2.06	mg/L	103.0	
BLA01	Q2485339	NA	SELENIUM			<	0.00200	mg/L		
CDL01	Q2485368	INORGANIC	SELENIUM	0.005			0.00644	mg/L	128.8	
ICS-AB	Q2485364	PERKIN ELM	SELENIUM	0.05			0.0524	mg/L	104.8	

THALLIUM TRACE ICP SW846-6010B **M134.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586733							
SAMPLE	A929119	Rep: 0	Analytical Run: R586733							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	THALLIUM			<	0.00128	mg/L		
LCS	Q2481639	SPEX	THALLIUM	3			2.97	mg/L	99.0	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R587040							

THALLIUM TRACE ICP SW846-6010B **M134.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586709 Analyst: K KAMARA Run Date: 26-Sep-11
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SAMPLE	A929121	Rep: 0	Analytical Run: R587040							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2482550	INORGANIC	THALLIUM	0.01			0.0111	mg/L	111.0	
ICV01	Q2482549	PERKIN ELM	THALLIUM	1			0.998	mg/L	99.8	
LCCV	Q2482551	INORGANIC	THALLIUM	0.01			0.0120	mg/L	120.0	
CDL01	Q2482578	PERKIN ELM	THALLIUM	0.02			0.0223	mg/L	111.5	
ICS-AB	Q2482563	PERKIN ELM	THALLIUM	0.1			0.0914	mg/L	91.4	
CCV	Q2482569	INORGANIC	THALLIUM	2			1.96	mg/L	98.0	
BLA01	Q2482555	NA	THALLIUM			<	0.00400	mg/L		
BLA02	Q2481642	NA	THALLIUM			<	0.00400	mg/L		
LCS	Q2481643	INORGANIC	THALLIUM	3			3.09	mg/L	103.0	
SER01	Q2482585	A928639	THALLIUM	0		CNA	0.0149	mg/L		
DUP02	Q2481644	A928639	THALLIUM	0		BDL		mg/L		
SPI02	Q2481645	A928639	THALLIUM	0	3		2.79	mg/L	93.0	
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2482570	INORGANIC	THALLIUM	2			1.94	mg/L	97.0	
BLA01	Q2482556	NA	THALLIUM			<	0.00400	mg/L		
SER01	Q2482587	A928993	THALLIUM	0		CNA	1.73	mg/kg		
CDL01	Q2482581	INORGANIC	THALLIUM	0.01			0.0112	mg/L	112.0	
ICS-AB	Q2482564	PERKIN ELM	THALLIUM	0.1			0.0913	mg/L	91.3	

Q2482585 1:5 Dilution.
Q2482585 1:5 Dilution.

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	THALLIUM				0.00267	mg/L		
LCS	Q2482842	SPEX	THALLIUM	3			2.94	mg/L	98.0	
DUP02	Q2482843	A929121	THALLIUM	0		BDL		mg/L		
SPI02	Q2482844	A929121	THALLIUM	0	3		2.93	mg/L	97.7	

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2485331	INORGANIC	THALLIUM	0.01			0.0104	mg/L	104.0	
ICV01	Q2485330	PERKIN	THALLIUM	1			1.00	mg/L	100.0	

THALLIUM TRACE ICP SW846-6010B **M134.0**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R587040 Analyst: J KRAMER Run Date: 01-Oct-11
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
		ELM								
CDL01	Q2485326	INORGANIC	THALLIUM	10			10.1	mg/L	101.0	
ICS-AB	Q2485321	PERKIN ELM	THALLIUM	0.1			0.0925	mg/L	92.5	
LCCV	Q2485357	INORGANIC	THALLIUM	0.01			0.00976	mg/L	97.6	
CCV	Q2485345	INORGANIC	THALLIUM	2			2.02	mg/L	101.0	
BLA01	Q2485338	NA	THALLIUM			<	0.00400	mg/L		
BLA02	Q2482845	NA	THALLIUM			<	0.00400	mg/L		
LCS	Q2482846	INORGANIC	THALLIUM	3			3.09	mg/L	103.0	
SER01	Q2485352	A929121	THALLIUM	0		CNA	0.0124	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
DUP02	Q2482847	A929121	THALLIUM	0		BDL		mg/L		
SPI02	Q2482848	A929121	THALLIUM	0	3		2.97	mg/L	99.0	
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2485346	INORGANIC	THALLIUM	2			2.04	mg/L	102.0	
BLA01	Q2485339	NA	THALLIUM			<	0.00400	mg/L		
CDL01	Q2485368	INORGANIC	THALLIUM	0.01			0.0108	mg/L	108.0	
ICS-AB	Q2485364	PERKIN ELM	THALLIUM	0.1			0.0923	mg/L	92.3	

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11 Instrument: GC/MS VOA
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2468569		Analysis Date/Time: 11-Aug-11 08:10							
CAL01	Q2468569		BENZENE	1.0496						3.6
CAL01	Q2468569		BROMOBENZENE	1.3705						6.4
CAL01	Q2468569		BROMOCHLOROMETHANE	0.1275						6.6
CAL01	Q2468569		BROMODICHLOROMETHANE	0.3326						6.6
CAL01	Q2468569		BROMOFORM	0.4786						11.6
CAL01	Q2468569		BROMOMETHANE	0.1575						14.5
CAL01	Q2468569		N-BUTYLBENZENE	1.5442						6.9
CAL01	Q2468569		SEC-BUTYLBENZENE	3.7462						5.6
CAL01	Q2468569		TERT-BUTYLBENZENE	1.6365						3.5
CAL01	Q2468569		CARBON TETRACHLORIDE	0.3281						7.4
CAL01	Q2468569		CHLOROBENZENE	1.9157						3.8
CAL01	Q2468569		DIBROMOCHLOROMETHANE	0.6482						8.1
CAL01	Q2468569		CHLOROETHANE	0.1688						5.8
CAL01	Q2468569		CHLOROFORM	0.4880						10.1
CAL01	Q2468569		CHLOROMETHANE	0.2534						6.6
CAL01	Q2468569		2-CHLOROTOLUENE (O-CHLOROTOLUENE)	0.8137						4.9
CAL01	Q2468569		4-CHLOROTOLUENE (P-CHLOROTOLUENE)	0.8323						5.7
CAL01	Q2468569		1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.2014						8.6
CAL01	Q2468569		1,2-DIBROMOETHANE (EDB)	0.2498						7
CAL01	Q2468569		DIBROMOMETHANE	0.1644						3.6

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CAL01	Q2468569		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	1.6073						9.2
CAL01	Q2468569		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	1.6647						8.4
CAL01	Q2468569		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	1.7206						8.8
CAL01	Q2468569		DICHLORODIFLUOROMETHANE	0.1845						5.2
CAL01	Q2468569		1,1-DICHLOROETHANE	0.4521						2.2
CAL01	Q2468569		1,2-DICHLOROETHANE	0.3914						3.1
CAL01	Q2468569		1,1-DICHLOROETHENE	0.1977						4
CAL01	Q2468569		CIS-1,2-DICHLOROETHENE	0.2673						3.2
CAL01	Q2468569		TRANS-1,2-DICHLOROETHENE	0.2383						3.1
CAL01	Q2468569		1,2-DICHLOROPROPANE	0.2554						3.4
CAL01	Q2468569		1,3-DICHLOROPROPANE	1.1598						4.8
CAL01	Q2468569		2,2-DICHLOROPROPANE	0.2832						7.2
CAL01	Q2468569		1,1-DICHLOROPROPENE	0.1217						7.2
CAL01	Q2468569		ETHYL BENZENE	1.0535						3.3
CAL01	Q2468569		HEXACHLOROBUTADIENE	0.6139						2.6
CAL01	Q2468569		ISOPROPYLBENZENE (CUMENE)	3.0181						4.4
CAL01	Q2468569		4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	2.9449						6
CAL01	Q2468569		DICHLOROMETHANE (METHYLENE CHLORIDE)			LIN				1.000
CAL01	Q2468569		METHYL ETHYL KETONE	0.0373						10.6
CAL01	Q2468569		NAPHTHALENE	3.0045						6.6
CAL01	Q2468569		N-PROPYLBENZENE	0.4236						3.2
CAL01	Q2468569		STYRENE	2.2472						5.5
CAL01	Q2468569		1,1,1,2-TETRACHLOROETHANE	0.6564						6.6
CAL01	Q2468569		1,1,2,2-TETRACHLOROETHANE	1.0558						13.8
CAL01	Q2468569		TETRACHLOROETHENE	0.7761						10.3
CAL01	Q2468569		TOLUENE	1.0687						6.1
CAL01	Q2468569		1,2,3-TRICHLOROBENZENE	1.1110						8.6
CAL01	Q2468569		1,2,4-TRICHLOROBENZENE	1.1896						8.8
CAL01	Q2468569		1,1,1-TRICHLOROETHANE	0.3840						4.6
CAL01	Q2468569		1,1,2-TRICHLOROETHANE	0.2369						5.8
CAL01	Q2468569		TRICHLOROETHENE	0.2547						4.3
CAL01	Q2468569		TRICHLOROFLUOROMETHANE	0.3682						3.4
CAL01	Q2468569		1,2,3-TRICHLOROPROPANE			LIN				1.000
CAL01	Q2468569		1,2,4-TRIMETHYLBENZENE	3.0615						3
CAL01	Q2468569		1,3,5-TRIMETHYLBENZENE	3.0467						3.5
CAL01	Q2468569		VINYL CHLORIDE	0.2783						6.4
CAL01	Q2468569		N-HEXANE	0.3849						6.5
CAL01	Q2468569		O-XYLENE	1.3385						3.5
CAL01	Q2468569		M/P-XYLENE	1.3569						4.1
CAL01	Q2468569		DICHLOROETHANE-D4	0.3244						2.7
CAL01	Q2468569		TOLUENE-D8	0.9768						3.2
CAL01	Q2468569		4-BROMOFLUOROBENZENE	0.9115						3.2
CAL01	Q2468569		DIBROMOFLUOROMETHANE	0.2323						1.7
ICV01	Q2468570	METHOD 826	Analysis Date/Time: 11-Aug-11 12:13							

VOLATILE ORGANICS SW846-8260B O510.7

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2468570	METHOD 826	BENZENE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	BROMOBENZENE	10			9.9	ug/L	99	
ICV01	Q2468570	METHOD 826	BROMOCHLOROMETHANE	10			10.5	ug/L	105	
ICV01	Q2468570	METHOD 826	BROMODICHLOROMETHANE	10			10.4	ug/L	104	
ICV01	Q2468570	METHOD 826	BROMOFORM	10			9.64	ug/L	96.4	
ICV01	Q2468570	METHOD 826	BROMOMETHANE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	N-BUTYLBENZENE	10			10.3	ug/L	103	
ICV01	Q2468570	METHOD 826	SEC-BUTYLBENZENE	10			10	ug/L	100	
ICV01	Q2468570	METHOD 826	TERT-BUTYLBENZENE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	CARBON TETRACHLORIDE	10			10.6	ug/L	106	
ICV01	Q2468570	METHOD 826	CHLOROBENZENE	10			10	ug/L	100	
ICV01	Q2468570	METHOD 826	DIBROMOCHLOROMETHANE	10			10.4	ug/L	104	
ICV01	Q2468570	METHOD 826	CHLOROETHANE	10			10.7	ug/L	107	
ICV01	Q2468570	METHOD 826	CHLOROFORM	10			10.3	ug/L	103	
ICV01	Q2468570	METHOD 826	CHLOROMETHANE	10			9.99	ug/L	99.9	
ICV01	Q2468570	METHOD 826	2-CHLOROTOLUENE (O-CHLOROTOLUENE)	10			9.87	ug/L	98.7	
ICV01	Q2468570	METHOD 826	4-CHLOROTOLUENE (P-CHLOROTOLUENE)	10			10.1	ug/L	101	
ICV01	Q2468570	METHOD 826	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	10			10.1	ug/L	101	
ICV01	Q2468570	METHOD 826	1,2-DIBROMOETHANE (EDB)	10			10.7	ug/L	107	
ICV01	Q2468570	METHOD 826	DIBROMOMETHANE	10			10.6	ug/L	106	
ICV01	Q2468570	METHOD 826	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	10			10.1	ug/L	101	
ICV01	Q2468570	METHOD 826	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	10			9.94	ug/L	99.4	
ICV01	Q2468570	METHOD 826	DICHLORODIFLUOROMETHANE	10			9.68	ug/L	96.8	
ICV01	Q2468570	METHOD 826	1,1-DICHLOROETHANE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	1,2-DICHLOROETHANE	10			10.5	ug/L	105	
ICV01	Q2468570	METHOD 826	1,1-DICHLOROETHENE	10			10.9	ug/L	109	
ICV01	Q2468570	METHOD 826	CIS-1,2-DICHLOROETHENE	10			10.6	ug/L	106	
ICV01	Q2468570	METHOD 826	TRANS-1,2-DICHLOROETHENE	10			10.7	ug/L	107	
ICV01	Q2468570	METHOD 826	1,2-DICHLOROPROPANE	10			9.93	ug/L	99.3	
ICV01	Q2468570	METHOD 826	1,3-DICHLOROPROPANE	10			10.3	ug/L	103	
ICV01	Q2468570	METHOD	2,2-DICHLOROPROPANE	10			10.8	ug/L	108	

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
		826								
ICV01	Q2468570	METHOD 826	1,1-DICHLOROPROPENE	10			10.6	ug/L	106	
ICV01	Q2468570	METHOD 826	ETHYL BENZENE	10			10.1	ug/L	101	
ICV01	Q2468570	METHOD 826	HEXACHLOROBUTADIENE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	ISOPROPYLBENZENE (CUMENE)	10			11.6	ug/L	116	
ICV01	Q2468570	METHOD 826	4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	10			10.4	ug/L	104	
ICV01	Q2468570	METHOD 826	DICHLOROMETHANE (METHYLENE CHLORIDE)	10			9.75	ug/L	97.5	
ICV01	Q2468570	METHOD 826	METHYL ETHYL KETONE	50			50.8	ug/L	101.6	
ICV01	Q2468570	METHOD 826	NAPHTHALENE	10			9.91	ug/L	99.1	
ICV01	Q2468570	METHOD 826	N-PROPYLBENZENE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	STYRENE	10			10.3	ug/L	103	
ICV01	Q2468570	METHOD 826	1,1,1,2-TETRACHLOROETHANE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	1,1,2,2-TETRACHLOROETHANE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	TETRACHLOROETHENE	10			9.83	ug/L	98.3	
ICV01	Q2468570	METHOD 826	TOLUENE	10			10.3	ug/L	103	
ICV01	Q2468570	METHOD 826	1,2,3-TRICHLOROBENZENE	10			9.73	ug/L	97.3	
ICV01	Q2468570	METHOD 826	1,2,4-TRICHLOROBENZENE	10			10	ug/L	100	
ICV01	Q2468570	METHOD 826	1,1,1-TRICHLOROETHANE	10			10.1	ug/L	101	
ICV01	Q2468570	METHOD 826	1,1,2-TRICHLOROETHANE	10			10.2	ug/L	102	
ICV01	Q2468570	METHOD 826	TRICHLOROETHENE	10			10.6	ug/L	106	
ICV01	Q2468570	METHOD 826	TRICHLOROFLUOROMETHANE	10			9.61	ug/L	96.1	
ICV01	Q2468570	METHOD 826	1,2,3-TRICHLOROPROPANE	10			10.7	ug/L	107	
ICV01	Q2468570	METHOD 826	1,2,4-TRIMETHYLBENZENE	10			9.78	ug/L	97.8	
ICV01	Q2468570	METHOD 826	1,3,5-TRIMETHYLBENZENE	10			9.83	ug/L	98.3	
ICV01	Q2468570	METHOD 826	VINYL CHLORIDE	10			10.3	ug/L	103	
ICV01	Q2468570	METHOD 826	METHYL-T-BUTYL ETHER (MTBE)	10			9.7	ug/L	97	
ICV01	Q2468570	METHOD 826	N-HEXANE	10			10.4	ug/L	104	
ICV01	Q2468570	METHOD 826	O-XYLENE	10			10.1	ug/L	101	
ICV01	Q2468570	METHOD 826	M/P-XYLENE	20			20	ug/L	100	
CCVD	Q2483284		Analysis Date/Time: 24-Sep-11 08:08							
CCVD	Q2483284		BENZENE	1.0496			1.1056			5.3
CCVD	Q2483284		BROMOBENZENE	1.3705			1.4252			4
CCVD	Q2483284		BROMOCHLOROMETHANE	0.1275			0.1437			12.7

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCVD	Q2483284		BROMODICHLOROMETHANE	0.3326			0.3257			2.1
CCVD	Q2483284		BROMOFORM	0.4786			0.5190			8.4
CCVD	Q2483284		BROMOMETHANE	0.1575			0.1463			7.1
CCVD	Q2483284		N-BUTYLBENZENE	1.5442			1.6021			3.7
CCVD	Q2483284		SEC-BUTYLBENZENE	3.7462			3.8353			2.4
CCVD	Q2483284		TERT-BUTYLBENZENE	1.6365			1.5894			2.9
CCVD	Q2483284		CARBON TETRACHLORIDE	0.3281			0.3326			1.4
CCVD	Q2483284		CHLOROBENZENE	1.9157			2.0830			8.7
CCVD	Q2483284		DIBROMOCHLOROMETHANE	0.6482			0.6867			5.9
CCVD	Q2483284		CHLOROETHANE	0.1688			0.1635			3.1
CCVD	Q2483284		CHLOROFORM	0.4880			0.4881			0
CCVD	Q2483284		CHLOROMETHANE	0.2534			0.2246			11.4
CCVD	Q2483284		2-CHLOROTOLUENE (O-CHLOROTOLUENE)	0.8137			0.9242			13.6
CCVD	Q2483284		4-CHLOROTOLUENE (P-CHLOROTOLUENE)	0.8323			0.8993			8
CCVD	Q2483284		1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.2014			0.2120			5.3
CCVD	Q2483284		1,2-DIBROMOETHANE (EDB)	0.2498			0.2615			4.7
CCVD	Q2483284		DIBROMOMETHANE	0.1644			0.1734			5.5
CCVD	Q2483284		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	1.6073			1.6816			4.6
CCVD	Q2483284		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	1.6647			1.8092			8.7
CCVD	Q2483284		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	1.7206			1.8768			9.1
CCVD	Q2483284		DICHLORODIFLUOROMETHANE	0.1845			0.1628			11.8
CCVD	Q2483284		1,1-DICHLOROETHANE	0.4521			0.4699			3.9
CCVD	Q2483284		1,2-DICHLOROETHANE	0.3914			0.4040			3.2
CCVD	Q2483284		1,1-DICHLOROETHENE	0.1977			0.2113			6.9
CCVD	Q2483284		CIS-1,2-DICHLOROETHENE	0.2673			0.2765			3.4
CCVD	Q2483284		TRANS-1,2-DICHLOROETHENE	0.2383			0.2546			6.8
CCVD	Q2483284		1,2-DICHLOROPROPANE	0.2554			0.2551			0.1
CCVD	Q2483284		1,3-DICHLOROPROPANE	1.1598			1.2785			10.2
CCVD	Q2483284		2,2-DICHLOROPROPANE	0.2832			0.2362			16.6
CCVD	Q2483284		1,1-DICHLOROPROPENE	0.1217			0.1255			3.1
CCVD	Q2483284		ETHYL BENZENE	1.0535			1.1333			7.6
CCVD	Q2483284		HEXACHLOROBUTADIENE	0.6139			0.6474			5.5
CCVD	Q2483284		ISOPROPYLBENZENE (CUMENE)	3.0181			3.0584			1.3
CCVD	Q2483284		4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	2.9449			3.0595			3.9
CCVD	Q2483284		DICHLOROMETHANE (METHYLENE CHLORIDE)	10		LIN	9.67			3.3
CCVD	Q2483284		METHYL ETHYL KETONE	0.0373			0.0396			6.2
CCVD	Q2483284		NAPHTHALENE	3.0045			2.8428			5.4
CCVD	Q2483284		N-PROPYLBENZENE	0.4236			0.4522			6.8
CCVD	Q2483284		STYRENE	2.2472			2.3730			5.6
CCVD	Q2483284		1,1,1,2-TETRACHLOROETHANE	0.6564			0.7361			12.1
CCVD	Q2483284		1,1,2,2-TETRACHLOROETHANE	1.0558			1.1614			10
CCVD	Q2483284		TETRACHLOROETHENE	0.7761			0.8493			9.4
CCVD	Q2483284		TOLUENE	1.0687			1.1087			3.7

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R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
CCVD	Q2483284		1,2,3-TRICHLOROBENZENE	1.1110			1.1034			0.7
CCVD	Q2483284		1,2,4-TRICHLOROBENZENE	1.1896			1.1481			3.5
CCVD	Q2483284		1,1,1-TRICHLOROETHANE	0.3840			0.3782			1.5
CCVD	Q2483284		1,1,2-TRICHLOROETHANE	0.2369			0.2513			6.1
CCVD	Q2483284		TRICHLOROETHENE	0.2547			0.2803			10.1
CCVD	Q2483284		TRICHLOROFLUOROMETHANE	0.3682			0.3488			5.3
CCVD	Q2483284		1,2,3-TRICHLOROPROPANE	10		LIN	11.60			16
CCVD	Q2483284		1,2,4-TRIMETHYLBENZENE	3.0615			3.2446			6
CCVD	Q2483284		1,3,5-TRIMETHYLBENZENE	3.0467			3.2136			5.5
CCVD	Q2483284		VINYL CHLORIDE	0.2783			0.2456			11.7
CCVD	Q2483284		N-HEXANE	0.3849			0.3414			11.3
CCVD	Q2483284		O-XYLENE	1.3385			1.3852			3.5
CCVD	Q2483284		M/P-XYLENE	1.3569			1.4590			7.5
CCVD	Q2483284		DICHLOROETHANE-D4	0.3244			0.3236			0.2
CCVD	Q2483284		TOLUENE-D8	0.9768			0.9746			0.2
CCVD	Q2483284		4-BROMOFLUOROBENZENE	0.9115			0.9846			8
CCVD	Q2483284		DIBROMOFLUOROMETHANE	0.2323			0.2313			0.4
BLA01	Q2483285		Analysis Date/Time: 24-Sep-11 08:36							
BLA01	Q2483285		BENZENE			BDL	0.38	ug/L		
BLA01	Q2483285		BROMOBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		BROMOCHLOROMETHANE			BDL	0.38	ug/L		
BLA01	Q2483285		BROMODICHLOROMETHANE			BDL	0.40	ug/L		
BLA01	Q2483285		BROMOFORM			BDL	0.26	ug/L		
BLA01	Q2483285		BROMOMETHANE			BDL	0.67	ug/L		
BLA01	Q2483285		N-BUTYLBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		SEC-BUTYLBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		TERT-BUTYLBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		CARBON TETRACHLORIDE			BDL	0.42	ug/L		
BLA01	Q2483285		CHLOROBENZENE			BDL	0.43	ug/L		
BLA01	Q2483285		DIBROMOCHLOROMETHANE			BDL	0.30	ug/L		
BLA01	Q2483285		CHLOROETHANE			BDL	0.43	ug/L		
BLA01	Q2483285		CHLOROFORM			BDL	0.40	ug/L		
BLA01	Q2483285		CHLOROMETHANE			BDL	1.0	ug/L		
BLA01	Q2483285		2-CHLOROTOLUENE (O-CHLOROTOLUENE)			BDL	1.0	ug/L		
BLA01	Q2483285		4-CHLOROTOLUENE (P-CHLOROTOLUENE)			BDL	1.0	ug/L		
BLA01	Q2483285		1,2-DIBROMO-3-CHLOROPROPANE (DBCP)			BDL	1.0	ug/L		
BLA01	Q2483285		1,2-DIBROMOETHANE (EDB)			BDL	1.0	ug/L		
BLA01	Q2483285		DIBROMOMETHANE			BDL	0.33	ug/L		
BLA01	Q2483285		1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)			BDL	0.36	ug/L		
BLA01	Q2483285		1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)			BDL	1.0	ug/L		
BLA01	Q2483285		1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)			BDL	0.40	ug/L		
BLA01	Q2483285		DICHLORODIFLUOROMETHANE			BDL	1.0	ug/L		
BLA01	Q2483285		1,1-DICHLOROETHANE			BDL	0.40	ug/L		
BLA01	Q2483285		1,2-DICHLOROETHANE			BDL	0.38	ug/L		

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R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA01	Q2483285		1,1-DICHLOROETHENE			BDL	0.44	ug/L		
BLA01	Q2483285		CIS-1,2-DICHLOROETHENE			BDL	0.40	ug/L		
BLA01	Q2483285		TRANS-1,2-DICHLOROETHENE			BDL	0.36	ug/L		
BLA01	Q2483285		1,2-DICHLOROPROPANE			BDL	0.41	ug/L		
BLA01	Q2483285		1,3-DICHLOROPROPANE			BDL	1.0	ug/L		
BLA01	Q2483285		2,2-DICHLOROPROPANE			BDL	1.0	ug/L		
BLA01	Q2483285		1,1-DICHLOROPROPENE			BDL	1.0	ug/L		
BLA01	Q2483285		ETHYL BENZENE			BDL	0.49	ug/L		
BLA01	Q2483285		HEXACHLOROBUTADIENE			BDL	1.0	ug/L		
BLA01	Q2483285		ISOPROPYLBENZENE (CUMENE)			BDL	1.0	ug/L		
BLA01	Q2483285		4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)			BDL	1.0	ug/L		
BLA01	Q2483285		DICHLOROMETHANE (METHYLENE CHLORIDE)			BDL	1.0	ug/L		
BLA01	Q2483285		METHYL ETHYL KETONE			BDL	5.0	ug/L		
BLA01	Q2483285		NAPHTHALENE			BDL	1.0	ug/L		
BLA01	Q2483285		N-PROPYLBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		STYRENE			BDL	0.44	ug/L		
BLA01	Q2483285		1,1,1,2-TETRACHLOROETHANE			BDL	0.36	ug/L		
BLA01	Q2483285		1,1,2,2-TETRACHLOROETHANE			BDL	0.26	ug/L		
BLA01	Q2483285		TETRACHLOROETHENE			BDL	0.84	ug/L		
BLA01	Q2483285		TOLUENE			BDL	0.42	ug/L		
BLA01	Q2483285		1,2,3-TRICHLOROBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		1,2,4-TRICHLOROBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		1,1,1-TRICHLOROETHANE			BDL	0.41	ug/L		
BLA01	Q2483285		1,1,2-TRICHLOROETHANE			BDL	0.32	ug/L		
BLA01	Q2483285		TRICHLOROETHENE			BDL	0.45	ug/L		
BLA01	Q2483285		TRICHLOROFLUOROMETHANE			BDL	0.56	ug/L		
BLA01	Q2483285		1,2,3-TRICHLOROPROPANE			BDL	0.34	ug/L		
BLA01	Q2483285		1,2,4-TRIMETHYLBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		1,3,5-TRIMETHYLBENZENE			BDL	1.0	ug/L		
BLA01	Q2483285		VINYL CHLORIDE			BDL	0.44	ug/L		
BLA01	Q2483285		METHYL-T-BUTYL ETHER (MTBE)			BDL	1.0	ug/L		
BLA01	Q2483285		N-HEXANE			BDL	1.0	ug/L		
BLA01	Q2483285		O-XYLENE			BDL	0.42	ug/L		
BLA01	Q2483285		M/P-XYLENE			BDL	0.80	ug/L		
BLA01	Q2483285		DICHLOROETHANE-D4						103	
BLA01	Q2483285		TOLUENE-D8						91	
BLA01	Q2483285		4-BROMOFLUOROBENZENE						96	
BLA01	Q2483285		DIBROMOFLUOROMETHANE						97	
LCS01	Q2483290	METHOD 826	Analysis Date/Time: 24-Sep-11 09:05							
LCS01	Q2483290	METHOD 826	BENZENE	10			10.5	ug/L	105	
LCS01	Q2483290	METHOD 826	BROMOBENZENE	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD 826	BROMOCHLOROMETHANE	10			11	ug/L	110	
LCS01	Q2483290	METHOD 826	BROMODICHLOROMETHANE	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD	BROMOFORM	10			10.2	ug/L	102	

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R586790 Analyst: R SHAMP Run Date: 24-Sep-11
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QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
		826								
LCS01	Q2483290	METHOD 826	BROMOMETHANE	10			8.89	ug/L	88.9	
LCS01	Q2483290	METHOD 826	N-BUTYLBENZENE	10			9.93	ug/L	99.3	
LCS01	Q2483290	METHOD 826	SEC-BUTYLBENZENE	10			10.1	ug/L	101	
LCS01	Q2483290	METHOD 826	TERT-BUTYLBENZENE	10			9.87	ug/L	98.7	
LCS01	Q2483290	METHOD 826	CARBON TETRACHLORIDE	10			9.57	ug/L	95.7	
LCS01	Q2483290	METHOD 826	CHLOROBENZENE	10			10.7	ug/L	107	
LCS01	Q2483290	METHOD 826	DIBROMOCHLOROMETHANE	10			10.9	ug/L	109	
LCS01	Q2483290	METHOD 826	CHLOROETHANE	10			9.69	ug/L	96.9	
LCS01	Q2483290	METHOD 826	CHLOROFORM	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD 826	CHLOROMETHANE	10			8.87	ug/L	88.7	
LCS01	Q2483290	METHOD 826	2-CHLOROTOLUENE (O-CHLOROTOLUENE)	10			10.7	ug/L	107	
LCS01	Q2483290	METHOD 826	4-CHLOROTOLUENE (P-CHLOROTOLUENE)	10			11	ug/L	110	
LCS01	Q2483290	METHOD 826	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	10			9.5	ug/L	95	
LCS01	Q2483290	METHOD 826	1,2-DIBROMOETHANE (EDB)	10			10.5	ug/L	105	
LCS01	Q2483290	METHOD 826	DIBROMOMETHANE	10			10.3	ug/L	103	
LCS01	Q2483290	METHOD 826	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD 826	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	10			10.8	ug/L	108	
LCS01	Q2483290	METHOD 826	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	10			10.9	ug/L	109	
LCS01	Q2483290	METHOD 826	DICHLORODIFLUOROMETHANE	10			7.11	ug/L	71.1	
LCS01	Q2483290	METHOD 826	1,1-DICHLOROETHANE	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD 826	1,2-DICHLOROETHANE	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD 826	1,1-DICHLOROETHENE	10			10.6	ug/L	106	
LCS01	Q2483290	METHOD 826	CIS-1,2-DICHLOROETHENE	10			9.94	ug/L	99.4	
LCS01	Q2483290	METHOD 826	TRANS-1,2-DICHLOROETHENE	10			10.8	ug/L	108	
LCS01	Q2483290	METHOD 826	1,2-DICHLOROPROPANE	10			10.3	ug/L	103	
LCS01	Q2483290	METHOD 826	1,3-DICHLOROPROPANE	10			11.2	ug/L	112	
LCS01	Q2483290	METHOD 826	2,2-DICHLOROPROPANE	10			8.86	ug/L	88.6	
LCS01	Q2483290	METHOD 826	1,1-DICHLOROPROPENE	10			10.4	ug/L	104	
LCS01	Q2483290	METHOD 826	ETHYL BENZENE	10			10.3	ug/L	103	
LCS01	Q2483290	METHOD 826	HEXACHLOROBUTADIENE	10			9.74	ug/L	97.4	
LCS01	Q2483290	METHOD 826	ISOPROPYLBENZENE (CUMENE)	10			11.4	ug/L	114	

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R586790 Analyst: R SHAMP Run Date: 24-Sep-11
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QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS01	Q2483290	METHOD 826	4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	10			10.4	ug/L	104	
LCS01	Q2483290	METHOD 826	DICHLOROMETHANE (METHYLENE CHLORIDE)	10			9.19	ug/L	91.9	
LCS01	Q2483290	METHOD 826	METHYL ETHYL KETONE	50			49.9	ug/L	99.8	
LCS01	Q2483290	METHOD 826	NAPHTHALENE	10			8.21	ug/L	82.1	
LCS01	Q2483290	METHOD 826	N-PROPYLBENZENE	10			10.3	ug/L	103	
LCS01	Q2483290	METHOD 826	STYRENE	10			10.8	ug/L	108	
LCS01	Q2483290	METHOD 826	1,1,1,2-TETRACHLOROETHANE	10			10.9	ug/L	109	
LCS01	Q2483290	METHOD 826	1,1,2,2-TETRACHLOROETHANE	10			10.3	ug/L	103	
LCS01	Q2483290	METHOD 826	TETRACHLOROETHENE	10			10.7	ug/L	107	
LCS01	Q2483290	METHOD 826	TOLUENE	10			10.1	ug/L	101	
LCS01	Q2483290	METHOD 826	1,2,3-TRICHLOROBENZENE	10			9.23	ug/L	92.3	
LCS01	Q2483290	METHOD 826	1,2,4-TRICHLOROBENZENE	10			9.23	ug/L	92.3	
LCS01	Q2483290	METHOD 826	1,1,1-TRICHLOROETHANE	10			9.48	ug/L	94.8	
LCS01	Q2483290	METHOD 826	1,1,2-TRICHLOROETHANE	10			10.8	ug/L	108	
LCS01	Q2483290	METHOD 826	TRICHLOROETHENE	10			10.5	ug/L	105	
LCS01	Q2483290	METHOD 826	TRICHLOROFLUOROMETHANE	10			8.84	ug/L	88.4	
LCS01	Q2483290	METHOD 826	1,2,3-TRICHLOROPROPANE	10			10.9	ug/L	109	
LCS01	Q2483290	METHOD 826	1,2,4-TRIMETHYLBENZENE	10			10.2	ug/L	102	
LCS01	Q2483290	METHOD 826	1,3,5-TRIMETHYLBENZENE	10			10.1	ug/L	101	
LCS01	Q2483290	METHOD 826	VINYL CHLORIDE	10			8.29	ug/L	82.9	
LCS01	Q2483290	METHOD 826	METHYL-T-BUTYL ETHER (MTBE)	10			7.11	ug/L	71.1	
LCS01	Q2483290	METHOD 826	N-HEXANE	10			9.25	ug/L	92.5	
LCS01	Q2483290	METHOD 826	O-XYLENE	10			9.98	ug/L	99.8	
LCS01	Q2483290	METHOD 826	M/P-XYLENE	20			21	ug/L	105	
SPI01	Q2483287	A928645	Analysis Date/Time: 24-Sep-11 11:46							
SPI01	Q2483287	A928645	BENZENE	0	10		10.9	ug/L	109	
SPI01	Q2483287	A928645	BROMOBENZENE	0	10		9.87	ug/L	98.7	
SPI01	Q2483287	A928645	BROMOCHLOROMETHANE	0	10		11.4	ug/L	114	
SPI01	Q2483287	A928645	BROMODICHLOROMETHANE	0	10		9.36	ug/L	93.6	
SPI01	Q2483287	A928645	BROMOFORM	0	10		8.24	ug/L	82.4	
SPI01	Q2483287	A928645	BROMOMETHANE	0	10		8.73	ug/L	87.3	
SPI01	Q2483287	A928645	N-BUTYLBENZENE	0	10		9.21	ug/L	92.1	
SPI01	Q2483287	A928645	SEC-BUTYLBENZENE	0	10		9.47	ug/L	94.7	
SPI01	Q2483287	A928645	TERT-BUTYLBENZENE	0	10		9.81	ug/L	98.1	
SPI01	Q2483287	A928645	CARBON TETRACHLORIDE	0	10		9.95	ug/L	99.5	

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R586790 Analyst: R SHAMP Run Date: 24-Sep-11
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QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SPI01	Q2483287	A928645	CHLOROBENZENE	0	10		10.5	ug/L	105	
SPI01	Q2483287	A928645	DIBROMOCHLOROMETHANE	0	10		9.88	ug/L	98.8	
SPI01	Q2483287	A928645	CHLOROETHANE	0	10		10	ug/L	100	
SPI01	Q2483287	A928645	CHLOROFORM	0	10		10.2	ug/L	102	
SPI01	Q2483287	A928645	CHLOROMETHANE	0	10		9.29	ug/L	92.9	
SPI01	Q2483287	A928645	2-CHLOROTOLUENE (O-CHLOROTOLUENE)	0	10		11.2	ug/L	112	
SPI01	Q2483287	A928645	4-CHLOROTOLUENE (P-CHLOROTOLUENE)	0	10		10	ug/L	100	
SPI01	Q2483287	A928645	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0	10		9.75	ug/L	97.5	
SPI01	Q2483287	A928645	1,2-DIBROMOETHANE (EDB)	0	10		10.4	ug/L	104	
SPI01	Q2483287	A928645	DIBROMOMETHANE	0	10		10.4	ug/L	104	
SPI01	Q2483287	A928645	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	0	10		10.6	ug/L	106	
SPI01	Q2483287	A928645	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	0	10		11	ug/L	110	
SPI01	Q2483287	A928645	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	0	10		11.1	ug/L	111	
SPI01	Q2483287	A928645	DICHLORODIFLUOROMETHANE	0	10		8.88	ug/L	88.8	
SPI01	Q2483287	A928645	1,1-DICHLOROETHANE	0	10		10.4	ug/L	104	
SPI01	Q2483287	A928645	1,2-DICHLOROETHANE	0	10		10.9	ug/L	109	
SPI01	Q2483287	A928645	1,1-DICHLOROETHENE	0	10		9.68	ug/L	96.8	
SPI01	Q2483287	A928645	CIS-1,2-DICHLOROETHENE	0	10		10.4	ug/L	104	
SPI01	Q2483287	A928645	TRANS-1,2-DICHLOROETHENE	0	10		10.8	ug/L	108	
SPI01	Q2483287	A928645	1,2-DICHLOROPROPANE	0	10		10.6	ug/L	106	
SPI01	Q2483287	A928645	1,3-DICHLOROPROPANE	0	10		10.9	ug/L	109	
SPI01	Q2483287	A928645	2,2-DICHLOROPROPANE	0	10		9.15	ug/L	91.5	
SPI01	Q2483287	A928645	1,1-DICHLOROPROPENE	0	10		9.84	ug/L	98.4	
SPI01	Q2483287	A928645	ETHYL BENZENE	0	10		9.14	ug/L	91.4	
SPI01	Q2483287	A928645	HEXACHLOROBUTADIENE	0	10		10.8	ug/L	108	
SPI01	Q2483287	A928645	ISOPROPYLBENZENE (CUMENE)	0	10		9.21	ug/L	92.1	
SPI01	Q2483287	A928645	4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	0	10		8.42	ug/L	84.2	
SPI01	Q2483287	A928645	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10		10.3	ug/L	103	
SPI01	Q2483287	A928645	METHYL ETHYL KETONE	0	50		46.1	ug/L	92.2	
SPI01	Q2483287	A928645	NAPHTHALENE	0	10		8.58	ug/L	85.8	
SPI01	Q2483287	A928645	N-PROPYLBENZENE	0	10		10.3	ug/L	103	
SPI01	Q2483287	A928645	STYRENE	0	10		2.36	ug/L	23.6	
SPI01	Q2483287	A928645	1,1,1,2-TETRACHLOROETHANE	0	10		10.9	ug/L	109	
SPI01	Q2483287	A928645	1,1,2,2-TETRACHLOROETHANE	0	10		10.7	ug/L	107	
SPI01	Q2483287	A928645	TETRACHLOROETHENE	0	10		11.5	ug/L	115	
SPI01	Q2483287	A928645	TOLUENE	0	10		9.25	ug/L	92.5	
SPI01	Q2483287	A928645	1,2,3-TRICHLOROBENZENE	0	10		9.74	ug/L	97.4	
SPI01	Q2483287	A928645	1,2,4-TRICHLOROBENZENE	0	10		9.24	ug/L	92.4	
SPI01	Q2483287	A928645	1,1,1-TRICHLOROETHANE	0	10		10	ug/L	100	
SPI01	Q2483287	A928645	1,1,2-TRICHLOROETHANE	0	10		10.7	ug/L	107	
SPI01	Q2483287	A928645	TRICHLOROETHENE	0	10		11.2	ug/L	112	
SPI01	Q2483287	A928645	TRICHLOROFLUOROMETHANE	0	10		9.38	ug/L	93.8	
SPI01	Q2483287	A928645	1,2,3-TRICHLOROPROPANE	0	10		10.7	ug/L	107	

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SPI01	Q2483287	A928645	1,2,4-TRIMETHYLBENZENE	0	10		4.37	ug/L	43.7	
SPI01	Q2483287	A928645	1,3,5-TRIMETHYLBENZENE	0	10		4.27	ug/L	42.7	
SPI01	Q2483287	A928645	VINYL CHLORIDE	0	10		8.49	ug/L	84.9	
SPI01	Q2483287	A928645	METHYL-T-BUTYL ETHER (MTBE)	0	10		7.3	ug/L	73	
SPI01	Q2483287	A928645	N-HEXANE	0	10		8.54	ug/L	85.4	
SPI01	Q2483287	A928645	O-XYLENE	0	10		6.72	ug/L	67.2	
SPI01	Q2483287	A928645	M/P-XYLENE	0	20		15.1	ug/L	75.5	
DPS01	Q2483288	A928645	Analysis Date/Time: 24-Sep-11 12:12							
DPS01	Q2483288	A928645	BENZENE	0	10		11	ug/L	110.2	0.8
DPS01	Q2483288	A928645	BROMOBENZENE	0	10		10.2	ug/L	101.9	3.2
DPS01	Q2483288	A928645	BROMOCHLOROMETHANE	0	10		11.9	ug/L	119.3	4.6
DPS01	Q2483288	A928645	BROMODICHLOROMETHANE	0	10		9.6	ug/L	96	2.5
DPS01	Q2483288	A928645	BROMOFORM	0	10		8.26	ug/L	82.6	0.2
DPS01	Q2483288	A928645	BROMOMETHANE	0	10		9.68	ug/L	96.8	10.3
DPS01	Q2483288	A928645	N-BUTYLBENZENE	0	10		9.71	ug/L	97.1	5.3
DPS01	Q2483288	A928645	SEC-BUTYLBENZENE	0	10		9.78	ug/L	97.8	3.2
DPS01	Q2483288	A928645	TERT-BUTYLBENZENE	0	10		10.2	ug/L	101.6	3.5
DPS01	Q2483288	A928645	CARBON TETRACHLORIDE	0	10		10.5	ug/L	104.6	5
DPS01	Q2483288	A928645	CHLOROBENZENE	0	10		10.8	ug/L	108	3.2
DPS01	Q2483288	A928645	DIBROMOCHLOROMETHANE	0	10		9.51	ug/L	95.1	3.8
DPS01	Q2483288	A928645	CHLOROETHANE	0	10		10.3	ug/L	102.7	2.5
DPS01	Q2483288	A928645	CHLOROFORM	0	10		10.5	ug/L	104.6	2.5
DPS01	Q2483288	A928645	CHLOROMETHANE	0	10		10.1	ug/L	101.4	8.7
DPS01	Q2483288	A928645	2-CHLOROTOLUENE (O-CHLOROTOLUENE)	0	10		10.9	ug/L	108.8	3.2
DPS01	Q2483288	A928645	4-CHLOROTOLUENE (P-CHLOROTOLUENE)	0	10		10.5	ug/L	104.7	4.3
DPS01	Q2483288	A928645	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0	10		9.23	ug/L	92.3	5.5
DPS01	Q2483288	A928645	1,2-DIBROMOETHANE (EDB)	0	10		10.3	ug/L	103.4	0.2
DPS01	Q2483288	A928645	DIBROMOMETHANE	0	10		10.8	ug/L	108.3	4.2
DPS01	Q2483288	A928645	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	0	10		10.9	ug/L	109.4	3.4
DPS01	Q2483288	A928645	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	0	10		11	ug/L	109.7	0.5
DPS01	Q2483288	A928645	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	0	10		11.1	ug/L	111.3	0.4
DPS01	Q2483288	A928645	DICHLORODIFLUOROMETHANE	0	10		9.05	ug/L	90.5	1.9
DPS01	Q2483288	A928645	1,1-DICHLOROETHANE	0	10		10.6	ug/L	106.3	2.2
DPS01	Q2483288	A928645	1,2-DICHLOROETHANE	0	10		10.9	ug/L	109	0.5
DPS01	Q2483288	A928645	1,1-DICHLOROETHENE	0	10		10.6	ug/L	106	9.1
DPS01	Q2483288	A928645	CIS-1,2-DICHLOROETHENE	0	10		11.2	ug/L	111.6	7.1
DPS01	Q2483288	A928645	TRANS-1,2-DICHLOROETHENE	0	10		11	ug/L	109.7	1.9
DPS01	Q2483288	A928645	1,2-DICHLOROPROPANE	0	10		10.8	ug/L	108.3	1.8
DPS01	Q2483288	A928645	1,3-DICHLOROPROPANE	0	10		11	ug/L	110.4	1.2
DPS01	Q2483288	A928645	2,2-DICHLOROPROPANE	0	10		9.72	ug/L	97.2	6
DPS01	Q2483288	A928645	1,1-DICHLOROPROPENE	0	10		9.95	ug/L	99.5	1.1
DPS01	Q2483288	A928645	ETHYL BENZENE	0	10		9.83	ug/L	98.3	7.3
DPS01	Q2483288	A928645	HEXACHLOROBUTADIENE	0	10		10.7	ug/L	107.4	0.2
DPS01	Q2483288	A928645	ISOPROPYLBENZENE (CUMENE)	0	10		9.31	ug/L	93.1	1.1

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DPS01	Q2483288	A928645	4-ISOPROPYLTOLUENE (P-ISOPROPYLTOLUENE)	0	10		8.71	ug/L	87.1	3.4
DPS01	Q2483288	A928645	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10		10.3	ug/L	103	0.1
DPS01	Q2483288	A928645	METHYL ETHYL KETONE	0	50		48	ug/L	96	4
DPS01	Q2483288	A928645	NAPHTHALENE	0	10		8.72	ug/L	87.2	1.6
DPS01	Q2483288	A928645	N-PROPYLBENZENE	0	10		9.99	ug/L	99.9	3.1
DPS01	Q2483288	A928645	STYRENE	0	10		2.93	ug/L	29.3	21.6
DPS01	Q2483288	A928645	1,1,1,2-TETRACHLOROETHANE	0	10		11.1	ug/L	111.4	1.8
DPS01	Q2483288	A928645	1,1,2,2-TETRACHLOROETHANE	0	10		11.1	ug/L	110.9	3.6
DPS01	Q2483288	A928645	TETRACHLOROETHENE	0	10		11.2	ug/L	112.4	1.9
DPS01	Q2483288	A928645	TOLUENE	0	10		9.86	ug/L	98.6	6.4
DPS01	Q2483288	A928645	1,2,3-TRICHLOROBENZENE	0	10		9.64	ug/L	96.4	1
DPS01	Q2483288	A928645	1,2,4-TRICHLOROBENZENE	0	10		9.56	ug/L	95.6	3.4
DPS01	Q2483288	A928645	1,1,1-TRICHLOROETHANE	0	10		10.5	ug/L	104.5	4.1
DPS01	Q2483288	A928645	1,1,2-TRICHLOROETHANE	0	10		10.7	ug/L	106.9	0.6
DPS01	Q2483288	A928645	TRICHLOROETHENE	0	10		11.3	ug/L	113.2	0.8
DPS01	Q2483288	A928645	TRICHLOROFLUOROMETHANE	0	10		9.71	ug/L	97.1	3.5
DPS01	Q2483288	A928645	1,2,3-TRICHLOROPROPANE	0	10		10.6	ug/L	105.9	0.8
DPS01	Q2483288	A928645	1,2,4-TRIMETHYLBENZENE	0	10		5.09	ug/L	50.9	15.2
DPS01	Q2483288	A928645	1,3,5-TRIMETHYLBENZENE	0	10		4.88	ug/L	48.8	13.3
DPS01	Q2483288	A928645	VINYL CHLORIDE	0	10		8.86	ug/L	88.6	4.3
DPS01	Q2483288	A928645	METHYL-T-BUTYL ETHER (MTBE)	0	10		7.45	ug/L	74.5	2
DPS01	Q2483288	A928645	N-HEXANE	0	10		8.64	ug/L	86.4	1.2
DPS01	Q2483288	A928645	O-XYLENE	0	10		7.4	ug/L	74	9.6
DPS01	Q2483288	A928645	M/P-XYLENE	0	20		15.7	ug/L	78.4	4
SAMPLE	A929118		Analysis Date/Time: 24-Sep-11 15:09							
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		Analysis Date/Time: 24-Sep-11 15:35							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
SAMPLE	A929120		Analysis Date/Time: 24-Sep-11 16:00							
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
SAMPLE	A929121		Analysis Date/Time: 24-Sep-11 16:25							
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							

Q2468569 Value reported for analytes calibrated by linear (LIN) or
Q2468569 Value reported for analytes calibrated by linear (LIN) or
Q2468569 quadratic (QDR) equations is r2 (Coef. of Determination).
Q2468569 quadratic (QDR) equations is r2 (Coef. of Determination).
Q2483284 Value reported for analytes calibrated by linear (LIN) or quadratic (QDR)
Q2483284 Value reported for analytes calibrated by linear (LIN) or quadratic (QDR)
Q2483284 equations is concentration.
Q2483284 equations is concentration.
Q2483287 2-Chloroethyl vinyl ether degrades under acidic conditions. No recovery
Q2483287 2-Chloroethyl vinyl ether degrades under acidic conditions. No recovery
Q2483287 possible. Unacidified sample not available.
Q2483287 possible. Unacidified sample not available.
Q2483288 2-Chloroethyl vinyl ether degrades under acidic conditions. No recovery
Q2483288 2-Chloroethyl vinyl ether degrades under acidic conditions. No recovery

VOLATILE ORGANICS SW846-8260B **O510.7**

R586790 Analyst: R SHAMP Run Date: 24-Sep-11
Analytical Reviewer: H WILLIAMS Review Date: 27-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
Q2483288	possible. Unacidified sample not available.									
Q2483288	possible. Unacidified sample not available.									

POTASSIUM ICP SW846-6010B **M126.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
DUP02	Q2481640	A928639	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	POTASSIUM	0.1			0.0823	mg/L	82.3	
ICV01	Q2481883	PERKIN ELM	POTASSIUM	20			19.3	mg/L	96.5	
LCCV	Q2481937	INORGANIC	POTASSIUM	0.1			0.0846	mg/L	84.6	
CDL01	Q2481929	INORGANIC	POTASSIUM	0.1			0.0829	mg/L	82.9	
SER01	Q2481935	A929008	POTASSIUM	7.28			6.40	mg/L		12.9
CCV	Q2481924	INORGANIC	POTASSIUM	50			51.8	mg/L	103.6	
BLA01	Q2481903	NA	POTASSIUM			<	0.0400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	POTASSIUM	50			51.7	mg/L	103.4	
BLA01	Q2481904	NA	POTASSIUM			<	0.0400	mg/L		
SER01	Q2482049	A928993	POTASSIUM	2920			2700	mg/L		7.8
CDL01	Q2482047	INORGANIC	POTASSIUM	0.1			0.0823	mg/L	82.3	
Q2481935	1:5 Dilution.									
Q2481935	1:5 Dilution.									
Q2482049	1:500 Dilution.									
Q2482049	1:500 Dilution.									

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	POTASSIUM				0.00706	mg/L		
LCS	Q2481639	SPEX	POTASSIUM	100			110	mg/L	110.0	
DUP02	Q2481640	A928639	POTASSIUM	18.0			17.8	mg/L		1.1
SPI02	Q2481641	A928639	POTASSIUM	18.0	100		141	mg/L	123.0	

POTASSIUM ICP SW846-6010B **M126.3**

Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	POTASSIUM				0.00140	mg/L		
LCS	Q2482842	SPEX	POTASSIUM	100			106	mg/L	106.0	
DUP02	Q2482843	A929121	POTASSIUM	12.6			13.2	mg/L		4.6
SPI02	Q2482844	A929121	POTASSIUM	12.6	100		119	mg/L	106.4	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	POTASSIUM	0.1			0.0845	mg/L	84.5	
ICV01	Q2483675	PERKIN ELM	POTASSIUM	20			18.9	mg/L	94.5	
CDL01	Q2483669	INORGANIC	POTASSIUM	0.1			0.0832	mg/L	83.2	
LCCV	Q2483678	INORGANIC	POTASSIUM	0.1			0.0856	mg/L	85.6	
SER01	Q2483673	A929233	POTASSIUM	35.1			23.8	mg/L		38.4
CCV	Q2483664	INORGANIC	POTASSIUM	50			51.9	mg/L	103.8	
BLA01	Q2483654	NA	POTASSIUM			<	0.0400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	POTASSIUM	50			51.8	mg/L	103.6	
BLA01	Q2483655	NA	POTASSIUM			<	0.0400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	POTASSIUM	50			52.7	mg/L	105.4	
BLA01	Q2483656	NA	POTASSIUM			<	0.0400	mg/L		
SER01	Q2483672	A929081	POTASSIUM	3.56			2.51	mg/L		34.6
CDL01	Q2483734	INORGANIC	POTASSIUM	0.1			0.100	mg/L	100.0	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

BERYLLIUM ICP SW846-6010B **M105.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	BERYLLIUM	0.004			0.00382	mg/L	95.5	
ICV01	Q2481883	PERKIN ELM	BERYLLIUM	1			0.995	mg/L	99.5	
LCCV	Q2481937	INORGANIC	BERYLLIUM	0.004			0.00378	mg/L	94.5	
CDL01	Q2481928	PERKIN ELM	BERYLLIUM	0.010			0.00989	mg/L	98.9	
ICS-AB	Q2481905	PERKIN ELM	BERYLLIUM	0.500			0.554	mg/L	110.8	
SER01	Q2481935	A929008	BERYLLIUM	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	BERYLLIUM	2			2.10	mg/L	105.0	
BLA01	Q2481903	NA	BERYLLIUM			<	0.000800	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	BERYLLIUM	2			2.10	mg/L	105.0	
BLA01	Q2481904	NA	BERYLLIUM			<	0.000800	mg/L		
SER01	Q2482049	A928993	BERYLLIUM	0.120		CNA	0.0528	mg/L		
CDL01	Q2482047	INORGANIC	BERYLLIUM	0.004			0.00392	mg/L	98.0	
ICS-AB	Q2482041	PERKIN ELM	BERYLLIUM	0.500			0.556	mg/L	111.2	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	BERYLLIUM			<	0.000396	mg/L		
LCS	Q2481639	SPEX	BERYLLIUM	0.05			0.0564	mg/L	112.8	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							

BERYLLIUM ICP SW846-6010B **M105.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586709 Prep — Analyst: K KAMARA — Reviewer: S ENDERSEN — Run Date: 26-Sep-11 — Review Date: 26-Sep-11 — Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 24-Sep-11 — Review Date: 26-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	BERYLLIUM			<	0.000400	mg/L		
LCS	Q2481643	INORGANIC	BERYLLIUM	0.05			0.0551	mg/L	110.2	
DUP02	Q2481644	A928639	BERYLLIUM	0		BDL		mg/L		
SPI02	Q2481645	A928639	BERYLLIUM	0	0.05		0.0521	mg/L	104.2	

R586848 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	BERYLLIUM			<	0.000396	mg/L		
LCS	Q2482842	SPEX	BERYLLIUM	0.05			0.0526	mg/L	105.2	
DUP02	Q2482843	A929121	BERYLLIUM	0		BDL		mg/L		
SPI02	Q2482844	A929121	BERYLLIUM	0	0.050		0.0524	mg/L	104.8	

R586850 Analytical — Analyst: J KRAMER — Reviewer: S ENDERSEN — Run Date: 27-Sep-11 — Review Date: 28-Sep-11 — Instrument: ICP

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	BERYLLIUM	0.004			0.00398	mg/L	99.5	
ICV01	Q2483675	PERKIN ELM	BERYLLIUM	1			0.988	mg/L	98.8	
CDL01	Q2483670	INORGANIC	BERYLLIUM	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	BERYLLIUM	0.500			0.536	mg/L	107.2	
LCCV	Q2483678	INORGANIC	BERYLLIUM	0.004			0.00390	mg/L	97.5	
SER01	Q2483673	A929233	BERYLLIUM	0		BDL		mg/L		
CCV	Q2483664	INORGANIC	BERYLLIUM	2			2.04	mg/L	102.0	
BLA01	Q2483654	NA	BERYLLIUM			<	0.000800	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	BERYLLIUM	2			2.05	mg/L	102.5	
BLA01	Q2483655	NA	BERYLLIUM			<	0.000800	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	BERYLLIUM	2			2.04	mg/L	102.0	
BLA01	Q2483656	NA	BERYLLIUM			<	0.000800	mg/L		
SER01	Q2483672	A929081	BERYLLIUM	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	BERYLLIUM	0.004			0.00414	mg/L	103.5	

BERYLLIUM ICP SW846-6010B **M105.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 *Continued*

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICS-AB	Q2483729	PERKIN ELM	BERYLLIUM	0.500			0.537	mg/L	107.4	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	BERYLLIUM			<	0.000400	mg/L		
LCS	Q2482846	INORGANIC	BERYLLIUM	0.05			0.0554	mg/L	110.8	
DUP02	Q2482847	A929121	BERYLLIUM	0		BDL		mg/L		
SPI02	Q2482848	A929121	BERYLLIUM	0	0.05		0.0528	mg/L	105.6	

CALCIUM ICP SW846-6010B **M109.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SPI02	Q2481641	A928639	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
DUP02	Q2481644	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	CALCIUM	0.1			0.0893	mg/L	89.3	
ICV01	Q2481883	PERKIN ELM	CALCIUM	20			20.4	mg/L	102.0	
LCCV	Q2481937	INORGANIC	CALCIUM	0.1			0.0942	mg/L	94.2	
CDL01	Q2481929	INORGANIC	CALCIUM	0.1			0.0890	mg/L	89.0	
ICS-A	Q2481931	PERKIN-ELM	CALCIUM	500			492	mg/L	98.4	
ICS-AB	Q2481905	PERKIN ELM	CALCIUM	500			492	mg/L	98.4	
SER01	Q2481935	A929008	CALCIUM	21.0			21.2	mg/L		0.9
CCV	Q2481924	INORGANIC	CALCIUM	50.0			51.6	mg/L	103.2	
BLA01	Q2481903	NA	CALCIUM			<	0.0400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							

CALCIUM ICP SW846-6010B **M109.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	CALCIUM	50.0			51.6	mg/L	103.2	
BLA01	Q2481904	NA	CALCIUM			<	0.0400	mg/L		
SER01	Q2482049	A928993	CALCIUM	17200			17800	mg/L		3.4
CDL01	Q2482047	INORGANIC	CALCIUM	0.1			0.0909	mg/L	90.9	
ICS-A	Q2482048	PERKIN-ELM	CALCIUM	500			500	mg/L	100.0	
ICS-AB	Q2482041	PERKIN ELM	CALCIUM	500			496	mg/L	99.2	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	CALCIUM				0.0226	mg/L		
LCS	Q2481639	SPEX	CALCIUM	100			106	mg/L	106.0	
SPI02	Q2481641	A928639	CALCIUM	443	100		531	mg/L	88.0	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
DUP02	Q2482847	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2481644	A928639	CALCIUM	429			418	mg/L		2.6

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	CALCIUM				0.00754	mg/L		
LCS	Q2482842	SPEX	CALCIUM	100			101	mg/L	101.0	
DUP02	Q2482843	A929121	CALCIUM	52.8			55.2	mg/L		4.4
SPI02	Q2482844	A929121	CALCIUM	52.8	100		153	mg/L	100.2	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

CALCIUM ICP SW846-6010B **M109.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	CALCIUM	0.1			0.0990	mg/L	99.0	
ICV01	Q2483675	PERKIN ELM	CALCIUM	20			20.3	mg/L	101.5	
CDL01	Q2483669	INORGANIC	CALCIUM	0.1			0.0983	mg/L	98.3	
ICS-A	Q2483671	PERKIN-ELM	CALCIUM	500			493	mg/L	98.6	
ICS-AB	Q2483657	PERKIN ELM	CALCIUM	500			485	mg/L	97.0	
LCCV	Q2483678	INORGANIC	CALCIUM	0.1			0.0989	mg/L	98.9	
SER01	Q2483673	A929233	CALCIUM	544			533	mg/L		2.0
CCV	Q2483664	INORGANIC	CALCIUM	50.0			51.5	mg/L	103.0	
BLA01	Q2483654	NA	CALCIUM			<	0.0400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	CALCIUM	50.0			51.4	mg/L	102.8	
BLA01	Q2483655	NA	CALCIUM			<	0.0400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	CALCIUM	50.0			51.5	mg/L	103.0	
BLA01	Q2483656	NA	CALCIUM			<	0.0400	mg/L		
SER01	Q2483672	A929081	CALCIUM	299			284	mg/L		5.1
CDL01	Q2483734	INORGANIC	CALCIUM	0.1			0.121	mg/L	121.0	
ICS-A	Q2483735	PERKIN-ELM	CALCIUM	500			526	mg/L	105.2	
ICS-AB	Q2483729	PERKIN ELM	CALCIUM	500			522	mg/L	104.4	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
DUP02	Q2482847	A929121	CALCIUM	57.3			57.8	mg/L		0.9

MANGANESE ICP SW846-6010B **M119.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							

MANGANESE ICP SW846-6010B **M119.3**

Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	MANGANESE	0.0100			0.0102	mg/L	102.0	
ICV01	Q2481883	PERKIN ELM	MANGANESE	1			1.00	mg/L	100.0	
LCCV	Q2481937	INORGANIC	MANGANESE	0.0100			0.00996	mg/L	99.6	
CDL01	Q2481928	PERKIN ELM	MANGANESE	0.030			0.0312	mg/L	104.0	
ICS-AB	Q2481905	PERKIN ELM	MANGANESE	0.500			0.488	mg/L	97.6	
SER01	Q2481935	A929008	MANGANESE	0.247			0.251	mg/L		1.6
CCV	Q2481924	INORGANIC	MANGANESE	5.00			4.93	mg/L	98.6	
BLA01	Q2481903	NA	MANGANESE			<	0.00400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	MANGANESE	5.00			4.92	mg/L	98.4	
BLA01	Q2481904	NA	MANGANESE			<	0.00400	mg/L		
SER01	Q2482049	A928993	MANGANESE	126			130	mg/L		3.1
CDL01	Q2482047	INORGANIC	MANGANESE	0.0100			0.0105	mg/L	105.0	
ICS-AB	Q2482041	PERKIN ELM	MANGANESE	0.500			0.489	mg/L	97.8	

Q2481935 1:5 Dilution.
Q2481935 1:5 Dilution.
Q2482049 1:500 Dilution.
Q2482049 1:500 Dilution.

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	MANGANESE			<	0.000172	mg/L		
LCS	Q2481639	SPEX	MANGANESE	0.5			0.522	mg/L	104.4	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							

MANGANESE ICP SW846-6010B **M119.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586709 Analyst: K KAMARA Run Date: 26-Sep-11
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	MANGANESE			<	0.000800	mg/L		
LCS	Q2481643	INORGANIC	MANGANESE	0.5			0.504	mg/L	100.8	
DUP02	Q2481644	A928639	MANGANESE	0.299			0.291	mg/L		2.7
SPI02	Q2481645	A928639	MANGANESE	0.299	0.5		0.760	mg/L	92.2	

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	MANGANESE				0.000594	mg/L		
LCS	Q2482842	SPEX	MANGANESE	0.5			0.495	mg/L	99.0	
DUP02	Q2482843	A929121	MANGANESE	0.232			0.243	mg/L		4.6
SPI02	Q2482844	A929121	MANGANESE	0.232	0.500		0.723	mg/L	98.2	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	MANGANESE	0.0100			0.0106	mg/L	106.0	
ICV01	Q2483675	PERKIN ELM	MANGANESE	1			1.00	mg/L	100.0	
CDL01	Q2483670	INORGANIC	MANGANESE	10			10.0	mg/L	100.0	
ICS-AB	Q2483657	PERKIN ELM	MANGANESE	0.500			0.484	mg/L	96.8	
LCCV	Q2483678	INORGANIC	MANGANESE	0.0100			0.0108	mg/L	108.0	
SER01	Q2483673	A929233	MANGANESE	0.0822			0.0840	mg/L		2.2
CCV	Q2483664	INORGANIC	MANGANESE	5.00			4.90	mg/L	98.0	
BLA01	Q2483654	NA	MANGANESE			<	0.00400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	MANGANESE	5.00			4.92	mg/L	98.4	
BLA01	Q2483655	NA	MANGANESE			<	0.00400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	MANGANESE	5.00			4.94	mg/L	98.8	
BLA01	Q2483656	NA	MANGANESE			<	0.00400	mg/L		
SER01	Q2483672	A929081	MANGANESE	0.521			0.514	mg/L		1.4
CDL01	Q2483734	INORGANIC	MANGANESE	0.0100			0.0120	mg/L	120.0	
ICS-AB	Q2483729	PERKIN ELM	MANGANESE	0.500			0.499	mg/L	99.8	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na

MANGANESE ICP SW846-6010B **M119.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
Q2483672	as indicated by the serial dilution results.									
Q2483672	as indicated by the serial dilution results.									
Q2483673	1:5 Dilution.									
Q2483673	1:5 Dilution.									

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	MANGANESE			<	0.000800	mg/L		
LCS	Q2482846	INORGANIC	MANGANESE	0.5			0.503	mg/L	100.6	
DUP02	Q2482847	A929121	MANGANESE	0.241			0.244	mg/L		1.2
SPI02	Q2482848	A929121	MANGANESE	0.241	0.5		0.713	mg/L	94.4	

ANTIMONY ICP SW846-6010B **M102.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586588 Analyst: K KAMARA Run Date: 22-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 22-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	Analytical Run: R586671							
LCS	Q2481639	SPEX	Analytical Run: R586671							
SAMPLE	A929118	Rep: 0	Analytical Run: R586668							
SAMPLE	A929119	Rep: 0	Analytical Run: R586668							
BLA02	Q2481642	NA	Analytical Run: R586733							
LCS	Q2481643	INORGANIC	Analytical Run: R586733							
DUP02	Q2481644	A928639	Analytical Run: R586733							
SPI02	Q2481645	A928639	Analytical Run: R586733							

R586668 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2481884	PERKIN ELE	ANTIMONY	0.01			0.00972	mg/L	97.2	
ICV01	Q2481883	PERKIN ELM	ANTIMONY	0.5			0.492	mg/L	98.4	
CDL01	Q2481928	PERKIN ELM	ANTIMONY	0.120			0.118	mg/L	98.3	
ICS-AB	Q2481905	PERKIN ELM	ANTIMONY	0.6			0.638	mg/L	106.3	
SER01	Q2481935	A929008	ANTIMONY	0		BDL		mg/L		
CCV	Q2481924	INORGANIC	ANTIMONY	1			1.04	mg/L	104.0	
BLA01	Q2481903	NA	ANTIMONY			<	0.00400	mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 0							
SAMPLE	A929119		See Certificate of Analysis, Rep: 0							
CCV	Q2481925	INORGANIC	ANTIMONY	1			1.02	mg/L	102.0	
BLA01	Q2481904	NA	ANTIMONY			<	0.00400	mg/L		
SER01	Q2482049	A928993	ANTIMONY	18.5			18.4	mg/L		0.5
CDL01	Q2482047	INORGANIC	ANTIMONY	0.01			0.00339	mg/L	33.9	
ICS-AB	Q2482041	PERKIN	ANTIMONY	0.6			0.640	mg/L	106.7	

ANTIMONY ICP SW846-6010B **M102.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586668 Analyst: J KRAMER Run Date: 22-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
		ELM								
Q2481935	1:5 Dilution.									
Q2481935	1:5 Dilution.									
Q2482049	1:500 Dilution.									
Q2482049	1:500 Dilution.									

R586671 Analyst: J KRAMER Run Date: 22-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 23-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481638	NA	ANTIMONY			<	0.00216	mg/L		
LCS	Q2481639	SPEX	ANTIMONY	0.5			0.542	mg/L	108.4	

R586709 Analyst: K KAMARA Run Date: 26-Sep-11 Instrument: PREP
Prep Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	Analytical Run: R586848							
LCS	Q2482842	SPEX	Analytical Run: R586848							
DUP02	Q2482843	A929121	Analytical Run: R586848							
SPI02	Q2482844	A929121	Analytical Run: R586848							
SAMPLE	A929120	Rep: 0	Analytical Run: R586850							
SAMPLE	A929121	Rep: 0	Analytical Run: R586850							
BLA02	Q2482845	NA	Analytical Run: R587040							
LCS	Q2482846	INORGANIC	Analytical Run: R587040							
DUP02	Q2482847	A929121	Analytical Run: R587040							
SPI02	Q2482848	A929121	Analytical Run: R587040							

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2481642	NA	ANTIMONY			<	0.00200	mg/L		
LCS	Q2481643	INORGANIC	ANTIMONY	0.5			0.551	mg/L	110.2	
DUP02	Q2481644	A928639	ANTIMONY	0		BDL		mg/L		
SPI02	Q2481645	A928639	ANTIMONY	0	0.5		0.536	mg/L	107.2	

R586848 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482841	NA	ANTIMONY			<	0.00216	mg/L		
LCS	Q2482842	SPEX	ANTIMONY	0.5			0.531	mg/L	106.2	
DUP02	Q2482843	A929121	ANTIMONY	0		BDL		mg/L		
SPI02	Q2482844	A929121	ANTIMONY	0	0.500		0.530	mg/L	106.0	

R586850 Analyst: J KRAMER Run Date: 27-Sep-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD

ANTIMONY ICP SW846-6010B **M102.3**
Prep : FAA/ ICP ACID DIGESTION OF AQUEOUS SAMPLES, TOTAL RECOVERABLE SW846-3005A

R586850 Analyst: J KRAMER Run Date: 27-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 28-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
LICV01	Q2483676	PERKIN ELE	ANTIMONY	0.01			0.00960	mg/L	96.0	
ICV01	Q2483675	PERKIN ELM	ANTIMONY	0.5			0.501	mg/L	100.2	
CDL01	Q2483668	PERKIN ELM	ANTIMONY	0.120			0.122	mg/L	101.7	
ICS-AB	Q2483657	PERKIN ELM	ANTIMONY	0.6			0.627	mg/L	104.5	
SER01	Q2483673	A929233	ANTIMONY	0		BDL		mg/L		
CCV	Q2483664	INORGANIC	ANTIMONY	1			1.04	mg/L	104.0	
BLA01	Q2483654	NA	ANTIMONY			<	0.00400	mg/L		
SAMPLE	A929121		See Certificate of Analysis, Rep: 0							
CCV	Q2483665	INORGANIC	ANTIMONY	1			1.05	mg/L	105.0	
BLA01	Q2483655	NA	ANTIMONY			<	0.00400	mg/L		
SAMPLE	A929120		See Certificate of Analysis, Rep: 0							
CCV	Q2483666	INORGANIC	ANTIMONY	1			1.05	mg/L	105.0	
BLA01	Q2483656	NA	ANTIMONY			<	0.00400	mg/L		
SER01	Q2483672	A929081	ANTIMONY	0		BDL		mg/L		
CDL01	Q2483734	INORGANIC	ANTIMONY	0.01			0.0155	mg/L	155.0	
ICS-AB	Q2483729	PERKIN ELM	ANTIMONY	0.6			0.650	mg/L	108.3	

Q2483672 1:5 Dilution.
Q2483672 1:5 Dilution.
Q2483672 There was possible matrix interference for K and Na
Q2483672 There was possible matrix interference for K and Na
Q2483672 as indicated by the serial dilution results.
Q2483672 as indicated by the serial dilution results.
Q2483673 1:5 Dilution.
Q2483673 1:5 Dilution.

R587040 Analyst: J KRAMER Run Date: 01-Oct-11 Instrument: ICP
Analytical Reviewer: S ENDERSEN Review Date: 03-Oct-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
BLA02	Q2482845	NA	ANTIMONY			<	0.00200	mg/L		
LCS	Q2482846	INORGANIC	ANTIMONY	0.5			0.539	mg/L	107.8	
DUP02	Q2482847	A929121	ANTIMONY	0		BDL		mg/L		
SPI02	Q2482848	A929121	ANTIMONY	0	0.5		0.526	mg/L	105.2	

LEAD TRACE ICP SW846-6010B **M116.0**
Prep : FIELD FILTRATION SAS

R586733 Analyst: J KRAMER Run Date: 24-Sep-11 Instrument: TRACE ICP
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
ICV01	Q2482549	PERKIN ELM	LEAD	1			1.00	mg/L	100.0	
SPI02	Q2479292	A928174	LEAD	0	0.5		0.488	mg/L	97.6	
DPS02	Q2479293	A928174	LEAD	0	0.5		0.478	mg/L	95.6	2.1
CDL01	Q2482578	PERKIN ELM	LEAD	0.100			0.103	mg/L	103.0	
ICS-AB	Q2482563	PERKIN	LEAD	1.00			0.949	mg/L	94.9	

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LEAD TRACE ICP SW846-6010B **M116.0**
Prep : FIELD FILTRATION SAS

R586733 Analyst: J KRAMER Run Date: 24-Sep-11
Analytical Reviewer: S ENDERSEN Review Date: 26-Sep-11 Continued

QC Type	Lab ID	Source	Parameter	True / Sample	Spike Value	RQL	Observed	Units	Rec	RPD
		ELM								
CCV	Q2482567	INORGANIC	LEAD	5.00			4.99	mg/L	99.8	
BLA01	Q2482553	NA	LEAD			<	0.00200	mg/L		
SER01	Q2482588	A929118	LEAD	0		BDL		mg/L		
SAMPLE	A929118		See Certificate of Analysis, Rep: 1							
DUP01	Q2482565	A929118	LEAD	0		BDL		mg/L		
SPI01	Q2482577	A929118	LEAD	0	0.500		0.501	mg/L	100.2	
SAMPLE	A929119		See Certificate of Analysis, Rep: 1							
SAMPLE	A929120		See Certificate of Analysis, Rep: 1							
SAMPLE	A929121		See Certificate of Analysis, Rep: 1							
CCV	Q2482568	INORGANIC	LEAD	5.00			4.98	mg/L	99.6	
BLA01	Q2482554	NA	LEAD			<	0.00200	mg/L		
SER01	Q2482586	A928923	LEAD	0		BDL		mg/L		
DUP02	Q2481253	A928923	LEAD	0		BDL		mg/L		
SPI02	Q2481254	A928923	LEAD	0	0.5		0.436	mg/L	87.2	
CDL01	Q2482579	PERKIN ELM	LEAD	0.100			0.106	mg/L	106.0	
ICS-AB	Q2482564	PERKIN ELM	LEAD	1.00			0.960	mg/L	96.0	

Q2482586 1:5 Dilution.
Q2482586 1:5 Dilution.

RQL	Result Qualifier Definition
!	Outside Lab Generated Control Limits
*	See Note for Parameter
<	Less Than
BDL	Below Detection Limit
CNA	RPD Calculation Not Applicable, < DL
LIN	Linear Regression Used
NQR	No QC Result. High Sample Concentration.

QC Type	Definition
DPS02	PREPPED DUPLICATE MATRIX SPIKE
LCCV	LOW LEVEL CONTINUING CALIBRATION VERIFICATION
CCV	CONTINUING CALIBRATION VERIFICATION
ICS-AB	INTERFERENCE CHECK SAMPLE AB
LCS01	LABORATORY CONTROL SAMPLE
SER01	ICP SERIAL DILUTION
DUP02	PREPPED DUPLICATE SAMPLE ANALYSIS
DLCS	DUPLICATE LABORATORY CONTROL STANDARD PREPPED
CDL01	DETECTION LIMIT STANDARD
ICV01	INITIAL CALIBRATION VERIFICATION DIFFERENT SOURCE
DPS01	DUPLICATE MATRIX SPIKE
BLA02	PREPPED (CALIBRATION) BLANK OR METHOD BLANK
SPI02	PREPPED MATRIX SPIKE
LICV01	LOW LEVEL CALIBRATION VERIFICATION DIFFERENT SOURCE
CAL01	INITIAL CALIBRATION
LFB02L	LOW LABORATORY FORTIFIED BLANK PREPPED
SPI01	MATRIX SPIKE
LFB02H	HIGH LABORATORY FORTIFIED BLANK PREPPED
DUP01	DUPLICATE SAMPLE ANALYSIS

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QC Type	Definition
BLA01	CALIBRATION (INSTRUMENT) BLANK
LCS	LABORATORY CONTROL SAMPLE PREPPED
ICS-A	INTERFERENCE CHECK SAMPLE A
CCVD	CONTINUING CALIBRATION VERIFICATION (USING %D)

Kurt J Maines

Approved By : KURT MAINES