2CID
Laubscher Meadows LF
Vanderburgh County

BFI®

RECEIVED
JUL 28 1998
DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
SOLID HAZARDOUS WASTE MANAGEMENT

July 27, 1998

Mr. John Guerrettaz
Indiana Department of Environmental Management
100 North Senate
Indianapolis, Indiana 46204

Re: Laubscher Meadows Landfill May 1998 Ground Water Analysis and Statistics

Submitted herewith is the Laubscher Meadows Landfill May 1998 Ground Water Analytical Report. In accordance with 329 IAC 10-21-7 (b) (1), a statistically significant increase has occurred in the following monitoring wells: MW2R, Ammonia 5.3 mg/l, 0.01 mg/l over the UPL, and MW 11R, Ammonia 6.6 mg/l, 1.37 mg/l over the UPL. In accordance with 329 IAC 10-21-8 (b), BFI will initiate a verification resampling program. Specifically, two (2) independent samples are scheduled to be collected and analyzed. In accordance with 329 IAC 10-21-8 (d), IDEM will be informed of the verification resampling event results within fourteen (14) days after a determination has been made.

Additionally, BFI has collected additional samples from the leachate collection system for compiling tri-linear diagrams and stiff plots. Per our conversation on July 24, the data will be submitted by August 24, 1998.

Should you have any questions regarding the information submitted herein, or require additional information, please feel free to contact Mr. Barry Wyatt at (281) 870 –7237, or myself at (812) 963-3295,

Sincerely,

Jeffrey W. Jenkins

Jeffrey W. Jenkins
Landfill Manager

cc: John Umpleby BFI
Barry Wyatt BFI
Tim Ralston BFI

Laubscher Meadows Landfill · 2020 Laubscher Road · Evansville, Indiana 47720
Phone 812-963-3295 · Fax 812-963-3575
www.bfi.com

30% Post-Consumer

Heritage Environmental Services, LLC
7901 West Morris Street
Indianapolis, IN 46231
Phone: (317) 243-0811
Fax: (317) 486-5095

RECEIVED
JUL 28 1998
DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
SOLID HAZARDOUS WASTE MANAGEMENT

CASE NARRATIVE
SHIPPING AND RECEIVING

The following samples were received at Heritage Environmental Laboratory

ID	CLIENT ID	DATE RECE
A443496	MW-11R	27-May-98
A443497	MW-10	27-May-98
A443498	MW-14D	27-May-98
A443499	MW-13D	27-May-98
A443500	MW-14R	27-May-98
A443678	MW-13R	28-May-98
A443679	MW-12I	28-May-98
A443680	MW-12I DUP	28-May-98
A443681	MW-15R	28-May-98
A443682	MW-3R	28-May-98
A443683	MW-3R1	28-May-98
A443684	MW-336D	28-May-98
A443685	MW-4R	28-May-98
A443686	MW-4D	28-May-98
A443936	MW-3R2	29-May-98
A443937	MW-2R	29-May-98
A443938	MW-5R	29-May-98
A443939	MW-5R1	29-May-98
A443940	MW-5R2	29-May-98
A443941	MW-337D	29-May-98
A443942	FIELD BLANK	29-May-98

The samples were received within EPA recommended holding times and in good condition. If required, a pH screen confirmed that all samples were preserved to acceptable pH levels. Samples were analyzed within holding times as prescribed by the analytical method. Exceptions to these statements, additional information, and any analytical anomalies are noted on the accompanying Certificates of Analysis Reports.

Teresa A. Miller
Document Control Officer

TO ENSURE PROPER HANDLING OF S[illegible]ES PLEASE COMPLETE THIS ENTIRE FORM

HERITAGE ENVIRONMENTAL SERVICES

COMMERCIAL LABORATORY OPERATIONS

7901 West Morris Street
Indianapolis, Indiana 46231 (317) 243-0811 Fax (317) 486-5095

I - 71913

Co. Name: BFI

Project Name: Laubscher Meadows LF

Quote No.: Z126591 PO No.:

ENVIRONMENTAL PROGRAM:

CWA NPDES _____ IWP _____ SLUDGE _____

RCRA MW _____ SW _____ DISPOSAL _____

SDWA _____ CERCLA/SUPERFUND _____ OTHER _____

Sampled by: Chris Wr[illegible] & Tony

Analyses Requested (Note special detection limits or methods): Total Metals, D.S.S. Metals, Nut's, Urea's, Gas cals

Report To:
Co: BFI
Add:
Evansville, In
Attn: Jeff Sokus
Phone:

Accelerated Turnaround Requested _____ (Subject to Additional Charge)

Result Request by: ___/___/___ Mo Day Yr

(Date must be Accepted and Approved by Lab)

Client ID:	Date:	Time:	Comp	Grab	Sample Description	Sample Type (Matrix): DW, GW, WW, Soil, Oil, Sludge, Other	No. of Containers	Remarks:	LAB Sample No.
	5-26-98	1303 AM/PM		✓	MW 11R	GW	7		A443496
	5-26-98	1418 AM/PM		✓	MW 10	GW	7		497
	5-26-98	1529 AM/PM		✓	MW-14D	GW	7		498
	5-26-98	1618 AM/PM		✓	MW-13D	GW	7		499
	5-26-98	1720 AM/PM		✓	MW-14R	GW	7		500
		AM/PM							
		AM/PM							
		AM/PM							
		AM/PM							
		AM/PM							
		AM/PM							
		AM/PM							
		AM/PM							

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	/			/	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	/			/	
Relinquished by: (Signature)	Date/Time	Received for Lab by: (Signature)	Date/Time	Remarks	
[signature]	5-26-98 1800	[signature]	27MAY98 10:55	ONE TRIP FROM BOTH #10 & #14 have space	

Distribution: White original and Yellow copy to accompany sample to laboratory. Pink copy to be retained by client.

Properly Preserved Yes

Broken Bottles NONE

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HERITAGE ENVIRONMENTAL SERVICES

COMMERCIAL LABORATORY OPERATIONS

7901 West Morris Street
Indianapolis, Indiana 46231 (317) 243-0811 Fax (317) 486-5095

I - 71938

Co. Name: BFI
Project Name: Landscher Meadows LF
Quote No.: Z 126591 PO No.:
ENVIRONMENTAL PROGRAM:
CWA NPDES _____ IWP _____ SLUDGE _____
RCRA MW _____ SW _____ DISPOSAL _____
SDWA _____ CERCLA/SUPERFUND _____ OTHER _____
Sampled by: Chris Wrin

Analyses Requested (Note special detection limits or methods)

Report To:
Co: BFI
Add:
Evansville, In
Attn: Jeff Jenkins
Phone:
Accelerated Turnaround Requested _____ (Subject to Additional Charge)
Result Request by: ___ / ___ / ___ (Mo Day Yr)
(Date must be Accepted and Approved by Lab)

Client ID:	Date:	Time:	Comp	Grab	Sample Description	Sample Type (Matrix): DW, GW, WW, Soil, Oil, Sludge, Other	No. of Containers	T. Metals	D. Metals	COD, NH3	Gene Chem	VOA's	Remarks:	LAB Sample No.
	5-27-98	0800 AM PM		✓	MW 13R		7	→	→	→	→	→		A443678
	5-27	0906 AM PM		✓	MW 12I		7	→	→	→	→	→		679
	5-27	0906 AM PM		✓	MW 12I Dup		7	→	→	→	→	→		680
	5-27	1009 AM PM		✓	MW 15R		7	→	→	→	→	→		681
	5-27	1106 AM PM		✓	MW 3R		7	→	→	→	→	→		682
	5-27	1155 AM PM		✓	MW 3R1	6	~~7~~		→	→	→	→	TOTAL METALS NOT REQUESTED	683
	5-27	1504 AM PM		✓	MW 336D		7	→	→	→	→	→		684
	5-27	1550 AM PM		✓	MW 4R		7	→	→	→	→	→		685
	5-27	1645 AM PM		✓	MW-4D		7	→	→	→	→	→		686
		AM PM												
		AM PM												
		AM PM												

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Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	/			/	

Relinquished by: (Signature)	Date/Time	Received for Lab by: (Signature)	Date/Time	Remarks
[signature]	5-27-98/1745	[signature]	28MAY98/12:05	

Properly Preserved Yes
Broken Bottles NONE

Distribution: White original and Yellow copy to accompany sample to laboratory.
Pink copy to be retained by client.

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TO ENSURE PROPER HANDLING OF S. ES PLEASE COMPLETE THIS ENTIRE FORM

HERITAGE ENVIRONMENTAL SERVICES

COMMERCIAL LABORATORY OPERATIONS

7901 West Morris Street
Indianapolis, Indiana 46231 (317) 243-0811 Fax (317) 486-5095

I - 75094

Co. Name: BFI

Project Name: LAUBSCHER MEADOWS

Quote No.: 7 PO No.:

ENVIRONMENTAL PROGRAM:

CWA NPDES _____ IWP _____ SLUDGE _____

RCRA MW _____ SW _____ DISPOSAL _____

SDWA _____ CERCLA/SUPERFUND _____ OTHER _____

Sampled by: Chris WRIGHT

Analyses Requested (Note special detection limits or methods): Z 126591

Report To:
Co: BFI
Add:
Evansville, IN
Attn: JEFF JENKINS
Phone:

Accelerated Turnaround Requested _____ (Subject to Additional Charge)

Result Request by: ___ / ___ / ___ (Mo Day Yr)

(Date must be Accepted and Approved by Lab)

Client ID:	Date:	Time:	Comp	Grab	Sample Description	Sample Type (Matrix): DW, GW, WW, Soil, Oil, Sludge, Other	No. of Containers	Remarks:	LAB Sample No.
	5-28-98	0715 AM PM		✓	MW-3R2	GW	6		A443936
	5-28-98	0730 AM PM		✓	MW-2R	GW	7		A443937
	5-28-98	0846 AM PM		✓	MW-5R	GW	6		A443938
	5-28-98	0927 AM PM		✓	MW-5R-1	GW	6		A443939
	5-28-98	1117 AM PM		✓	MW-5R-2	GW	5		A443940
	5-28-98	1053 AM PM		✓	MW-337	GW	6		A443941
	5-28-98	1045 AM PM		✓	FIELD BLANK	DI	3	VOA'S & METALS ONLY	A443942
		AM PM							
		AM PM							
		AM PM							
		AM PM							
		AM PM							

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	/			/	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	/			/	
Relinquished by: (Signature)	Date/Time	Received for Lab by: (Signature)	Date/Time	Remarks "337" VOC one vial has space	
[signature]	5-29-98 1050	[signature]	29 MAY 98 10:20	Properly Preserved Yes	
				Broken Bottles NONE	

Distribution: White original and Yellow copy to accompany sample to laboratory.
Pink copy to be retained by client.

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CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	29-MAY-98		A443937
	Complete	PO Number	
	18-JUN-98	021406J012	
	Printed	Sampled	
	18-JUN-98	28-MAY-98 07:30	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-2R
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	6.8	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	15.0		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.2	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-83		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	1.3	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	837	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 15:00 Instrument: PREP Test: P203.4.0

 (continued on next page)

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443937 MW-2R

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 03-JUN-98 12:30 Test: G203.4.0

Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	5.3	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 02-JUN-98 06:39 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	15	0.25	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 08-JUN-98 10:00 Instrument: PREP Test: P132.4.0

Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:55 Instrument: ICP Test: M131.3.1

Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	73.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 10:22 Instrument: TRACE ICP Test: M108.0.1

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0

Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:55 Instrument: ICP Test: M110.3.1

Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:55 Instrument: ICP Test: M112.3.1

Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:55 Instrument: ICP Test: M139.3.1

Prep: FIELD FILTRATION SAS P110.0.0

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443937 MW-2R

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

IRON ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:55 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	5.9	0.025	mg/L

MAGNESIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:55 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	26.	0.20	mg/L

MANGANESE ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:55 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.45	0.010	mg/L

POTASSIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:55 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	1.3	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1
Analyst: K. FULLMER Analysis Date: 04-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	460	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2
Analyst: A. KEYS Analysis Date: 01-JUN-98 16:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	14	1	mg/L

ALKALINITY TOTAL EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	510	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	510	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

 (continued on next page)

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 04-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 08-JUN-98 16:23 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	73.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 02-JUN-98 06:39 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: H. WILLIAMS Analysis Date: 03-JUN-98 07:59 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	104		% Rec

HERITAGE ENVIRONMENTAL SERVICES, LLC **Sample ID: A443937 MW-2R**

Parameter	Result	Det. Limit	Units
TOLUENE-D8	89		% Rec
4-BROMOFLUOROBENZENE	103		% Rec
Dilution 1:5			

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 75094.

This Certificate shall not be reproduced, except in full, without the written approval of the lab.

Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	28-MAY-98		A443682
	Complete	PO Number	
	24-JUN-98	021406J012	
	Printed	Sampled	
	25-JUN-98	27-MAY-98 11:06	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-3R
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	5.4	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	17.2		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.2	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-125		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	3.9	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	568	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS Analysis Date: 28-MAY-98 17:00 Instrument: PREP Test: P203.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 01-JUN-98 10:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	1.5	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 04:36 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	8.3	0.25	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: P. MASTERS Analysis Date: 21-JUN-98 10:00 Instrument: PREP Test: P132.4.1
Prep: FIELD FILTRATION SAS P110.0.0

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

ARSENIC TRACE ICP SW846-6010B

Analyst: G. MAPP Analysis Date: 23-JUN-98 00:21 Instrument: TRACE ICP Test: M103.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
ARSENIC	0.083	0.0050	mg/L

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:39 Instrument: ICP Test: M131.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	48.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: G. MAPP Analysis Date: 23-JUN-98 00:21 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:39 Instrument: ICP Test: M110.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:39 Instrument: ICP Test: M112.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:39 Instrument: ICP Test: M139.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:39 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	10.	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:39 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	33.	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:39 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	1.1	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:39 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	0.49	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1

Analyst: A. KEYS Analysis Date: 01-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	460	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: K. FULLMER Analysis Date: 03-JUN-98 17:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	21	1	mg/L

ALKALINITY TOTAL EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	450	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	450	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

ARSENIC TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 09:30 Instrument: TRACE ICP Test: M103.0.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
ARSENIC	0.087	0.0050	mg/L

CALCIUM ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 04-JUN-98 05:13 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	99.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 04:36 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: R. SHAMP Analysis Date: 03-JUN-98 07:53 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443682 MW-3R

Parameter	Result	Det. Limit	Units
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	112		% Rec
TOLUENE-D8	104		% Rec
4-BROMOFLUOROBENZENE	103		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 71938.

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Approved : RK Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	28-MAY-98		A443683
	Complete	PO Number	
	18-JUN-98	021406J012	
	Printed	Sampled	
	18-JUN-98	27-MAY-98 11:55	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-3R1
DESCRIPTION: LEACHATE COLLECTION SYSTEM PERFORMANCE WELLS

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	1.2	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	17.2		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.2	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-18		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	4.7	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	580	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS Analysis Date: 28-MAY-98 17:00 Instrument: PREP Test: P203.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 01-JUN-98 10:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	BDL	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 19:58 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	37	1.3	mg/L
1:5 dilution			

CHEMICAL OXYGEN DEMAND (COLORIMETRIC) EPA 410.4

Analyst: K. STALOWICZ Analysis Date: 08-JUN-98 09:40 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	BDL	10	mg/L

DISSOLVED SOLIDS EPA 160.1

Analyst: A. KEYS Analysis Date: 01-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	610	10	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

ARSENIC TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 08:54 Instrument: TRACE ICP Test: M103.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:42 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	0.027	0.025	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: K. FULLMER Analysis Date: 03-JUN-98 17:00 Test: G403.7.0

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443683 MW-3R1

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	BDL	1	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: R. SHAMP Analysis Date: 03-JUN-98 08:28 Instrument: GC/MS VOA Test: 0510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	107		% Rec
TOLUENE-D8	106		% Rec
4-BROMOFLUOROBENZENE	98		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 71938.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	29-MAY-98		A443936
	Complete	PO Number	
	18-JUN-98	021406J012	
	Printed	Sampled	
	18-JUN-98	28-MAY-98 07:15	

Report To

JEFF JENKINS
BFI WASTE SYSTEMS
2211 GLENVIEW DRIVE
EVANSVILLE, IN 47720

Bill To

ACCOUNTS PAYABLE
BFI WASTE SYSTEMS
P O BOX 4309
EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-3R2
DESCRIPTION: LEACHATE COLLECTION SYSTEM PERFORMANCE WELLS

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN | Analysis Date: 28-MAY-98 | Instrument: FIELD | Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	20.8	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN | Analysis Date: 28-MAY-98 | Instrument: FIELD | Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	15.4		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN | Analysis Date: 28-MAY-98 | Instrument: FIELD | Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.0	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN | Analysis Date: 28-MAY-98 | Instrument: FIELD | Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	176		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN | Analysis Date: 28-MAY-98 | Instrument: FIELD | Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	1.7	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN | Analysis Date: 28-MAY-98 | Instrument: FIELD | Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	1295	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS | Analysis Date: 01-JUN-98 15:00 | Instrument: PREP | Test: P203.4.0

 (continued on next page)

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443936 MW-3R2

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 03-JUN-98 12:30 Test: G203.4.0

Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.15	0.12	mg/L

CHEMICAL OXYGEN DEMAND (COLORIMETRIC) EPA 410.4

Analyst: K. STALOWICZ Analysis Date: 08-JUN-98 09:40 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	BDL	10	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 05-JUN-98 03:36 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	50	1.3	mg/L

1:5 Dilution

DISSOLVED SOLIDS EPA 160.1

Analyst: K. FULLMER Analysis Date: 04-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	790	10	mg/L

FIELD FILTRATION SAS

Analyst: . Analysis Date: [illegible] Instrument: FIELD Test: P110.0.0

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 08-JUN-98 10:00 Instrument: PREP Test: P132.4.0

Prep: FIELD FILTRATION SAS P110.0.0

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

ARSENIC TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 10:03 Instrument: TRACE ICP Test: M103.0.1

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0

Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:43 Instrument: ICP Test: M115.3.1

Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	0.029	0.025	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: R. SHAMP Analysis Date: 03-JUN-98 13:48 Instrument: GC/MS VOA Test: O510.6.0

 (continued on next page)

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443936 MW-3R2

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	118		% Rec
TOLUENE-D8	107		% Rec
4-BROMOFLUOROBENZENE	109		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 75094.

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Approved : PK Pence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	28-MAY-98		A443685
	Complete	PO Number	
	18-JUN-98	021406J012	
	Printed	Sampled	
	18-JUN-98	27-MAY-98 15:50	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-4R
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	2.7	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	16.0		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	6.8	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-106		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	3.3	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	664	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS Analysis Date: 28-MAY-98 17:00 Instrument: PREP Test: P203.4.0

 (continued on next page)

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 01-JUN-98 10:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	16	0.60	mg/L

1:5 dilution

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 06:57 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	11	0.25	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:47 Instrument: ICP Test: M131.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	50.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 09:01 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:47 Instrument: ICP Test: M110.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:47 Instrument: ICP Test: M112.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:47 Instrument: ICP Test: M139.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:47 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	25.	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:47 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	30.	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:47 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.52	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:47 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	2.0	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1

Analyst: A. KEYS Analysis Date: 01-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	530	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: K. FULLMER Analysis Date: 03-JUN-98 17:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	62	1	mg/L

ALKALINITY TOTAL EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	570	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	570	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

 (continued on next page)

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443685 MW-4R

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 04-JUN-98 05:19 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	130	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 06:57 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: R. SHAMP Analysis Date: 03-JUN-98 11:26 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			

 (continued on next page)

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443685 MW-4R

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			
DICHLOROETHANE-D4	113		% Rec
TOLUENE-D8	103		% Rec
4-BROMOFLUOROBENZENE	109		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 71938.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	28-MAY-98		A443686
	Complete	PO Number	
	18-JUN-98	021406J012	
	Printed	Sampled	
	18-JUN-98	27-MAY-98 16:45	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-4D
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	2.5	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	16.2		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	6.9	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-110		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	4.3	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	592	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS | Analysis Date: 28-MAY-98 17:00 | Instrument: PREP | Test: P203.4.0

 (continued on next page)

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 01-JUN-98 10:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	11	0.60	mg/L

1:5 dilution

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 07:14 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	5.0	0.25	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:49 Instrument: ICP Test: M131.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	43.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 09:05 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:49 Instrument: ICP Test: M110.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:49 Instrument: ICP Test: M112.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:49 Instrument: ICP Test: M139.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:49 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	23.	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:49 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	27.	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:49 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.24	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:49 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	1.6	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1

Analyst: A. KEYS Analysis Date: 01-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	460	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: K. FULLMER Analysis Date: 03-JUN-98 17:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	55	1	mg/L

ALKALINITY TOTAL EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	460	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	460	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 04-JUN-98 05:21 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	110	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 07:14 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: R. SHAMP Analysis Date: 03-JUN-98 12:01 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			

 (continued on next page)

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			
DICHLOROETHANE-D4	117		% Rec
TOLUENE-D8	103		% Rec
4-BROMOFLUOROBENZENE	111		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 71938.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	29-MAY-98		A443938
	Complete	PO Number	
	18-JUN-98	021406J012	
	Printed	Sampled	
	18-JUN-98	28-MAY-98 08:46	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-5R
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	3.3	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	17.6		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.1	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-34		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	2.4	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	854	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 15:00 Instrument: PREP Test: P203.4.0

 (continued on next page)

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 03-JUN-98 12:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.33	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 04-JUN-98 13:21 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	51	1.3	mg/L
1:5 DILUTION			

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 08-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:57 Instrument: ICP Test: M131.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	120	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 10:26 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:57 Instrument: ICP Test: M110.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:57 Instrument: ICP Test: M112.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:57 Instrument: ICP Test: M139.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:57 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	3.3	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:57 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	31.	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:57 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	2.2	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 18:57 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	0.50	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1

Analyst: K. FULLMER Analysis Date: 04-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	540	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: A. KEYS Analysis Date: 01-JUN-98 16:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	10	1	mg/L

ALKALINITY TOTAL EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	330	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	330	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 04-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 08-JUN-98 16:32 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	63.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 02-JUN-98 06:56 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	7.1	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: H. WILLIAMS Analysis Date: 03-JUN-98 08:35 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			

 (continued on next page)

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			
DICHLOROETHANE-D4	105		% Rec
TOLUENE-D8	90		% Rec
4-BROMOFLUOROBENZENE	97		% Rec
Dilution 1:5			

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 75094.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	29-MAY-98		A443939
	Complete	PO Number	
	18-JUN-98	021406J012	
	Printed	Sampled	
	18-JUN-98	28-MAY-98 09:27	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-5R1
DESCRIPTION: LEACHATE COLLECTION SYSTEM PERFORMANCE WELLS

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	2.5	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	17.5		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.3	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	157		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	6.4	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	1094	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 15:00 Instrument: PREP Test: P203.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 03-JUN-98 12:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.14	0.12	mg/L

CHEMICAL OXYGEN DEMAND (COLORIMETRIC) EPA 410.4

Analyst: A. WININGER Analysis Date: 09-JUN-98 09:45 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	BDL	10	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 04-JUN-98 14:13 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	44	1.3	mg/L
1:5 DILUTION			

DISSOLVED SOLIDS EPA 160.1

Analyst: K. FULLMER Analysis Date: 04-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	690	10	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 08-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

ARSENIC TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 10:29 Instrument: TRACE ICP Test: M103.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:00 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	BDL	0.025	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: H. WILLIAMS Analysis Date: 03-JUN-98 09:12 Instrument: GC/MS VOA Test: O510.6.0

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443939 MW-5R1

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	106		% Rec
TOLUENE-D8	92		% Rec
4-BROMOFLUOROBENZENE	103		% Rec

Dilution 1:5

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 75094.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	29-MAY-98		A443940
	Complete	PO Number	
	18-JUN-98	021406J012	
	Printed	Sampled	
	18-JUN-98	28-MAY-98 11:17	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-5R2
DESCRIPTION: LEACHATE COLLECTION SYSTEM PERFORMANCE WELLS

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	4.3	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	18.0		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	6.9	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	134		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	4.5	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN Analysis Date: 28-MAY-98 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	1070	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 15:00 Instrument: PREP Test: P203.4.0

 (continued on next page)

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 03-JUN-98 12:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	BDL	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 04-JUN-98 14:31 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	45	1.3	mg/L
1:5 DILUTION			

CHEMICAL OXYGEN DEMAND (COLORIMETRIC) EPA 410.4

Analyst: A. WININGER Analysis Date: 09-JUN-98 09:45 Test: G301.1.0

Parameter	Result	Det. Limit	Units
CHEMICAL OXYGEN DEMAND	BDL	10	mg/L

DISSOLVED SOLIDS EPA 160.1

Analyst: K. FULLMER Analysis Date: 04-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	880	10	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 08-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

ARSENIC TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 10:33 Instrument: TRACE ICP Test: M103.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:02 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	BDL	0.025	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: H. WILLIAMS Analysis Date: 03-JUN-98 09:48 Instrument: GC/MS VOA Test: O510.6.0

HERITAGE ENVIRONMENTAL SERVICES, LLC **Sample ID: A443940 MW-5R2**

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	112		% Rec
TOLUENE-D8	91		% Rec
4-BROMOFLUOROBENZENE	111		% Rec

Dilution 1:5

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 75094.

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Approved : PK Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	27-MAY-98		A443497
	Complete	PO Number	
	22-JUN-98	021406J012	
	Printed	Sampled	
	23-JUN-98	26-MAY-98 14:18	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

D.O. MW

Sample Description

CLIENT ID: FW-10R
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	8.7	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	15.4		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.0	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-86		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	1.9	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	752	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS Analysis Date: 28-MAY-98 17:00 Instrument: PREP Test: P203.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 01-JUN-98 10:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	2.8	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 28-MAY-98 02:21 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	16	0.25	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 02-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:11 Instrument: ICP Test: M131.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	56.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: G. MAPP Analysis Date: 17-JUN-98 21:14 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:11 Instrument: ICP Test: M110.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:11 Instrument: ICP Test: M112.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:11 Instrument: ICP Test: M139.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:11 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	10.	0.025	mg/L

MAGNESIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:11 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	26.	0.20	mg/L

MANGANESE ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:11 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

POTASSIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:11 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	1.2	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1
Analyst: A. KEYS Analysis Date: 29-MAY-98 13:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	410	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2
Analyst: A. KEYS Analysis Date: 29-MAY-98 13:30 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	23	1	mg/L

ALKALINITY TOTAL EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	390	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	390	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 04-JUN-98 04:03 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	74.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 28-MAY-98 02:21 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	0.65	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: R. SHAMP Analysis Date: 01-JUN-98 14:00 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	119		% Rec

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443497 FW-10

Parameter	Result	Det. Limit	Units
TOLUENE-D8	101		% Rec
4-BROMOFLUOROBENZENE	104		% Rec
1:5 dilution			

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 71913.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	27-MAY-98		A443496
	Complete	PO Number	
	22-JUN-98	021406J012	
	Printed	Sampled	
	23-JUN-98	26-MAY-98 13:03	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-11R
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	2.2	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	15.3		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.7	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-174		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	1.8	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	667	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS Analysis Date: 28-MAY-98 17:00 Instrument: PREP Test: P203.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 01-JUN-98 10:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	6.6	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 00:29 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	26	1.3	mg/L

1:5 DILUTION

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 02-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 15:59 Instrument: ICP Test: M131.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	100	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: G. MAPP Analysis Date: 17-JUN-98 21:38 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 15:59 Instrument: ICP Test: M110.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 15:59 Instrument: ICP Test: M112.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 15:59 Instrument: ICP Test: M139.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 15:59 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	1.9	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 15:59 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	14.	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 15:59 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.39	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 15:59 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	1.4	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1

Analyst: A. KEYS Analysis Date: 29-MAY-98 13:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	360	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: A. KEYS Analysis Date: 29-MAY-98 13:30 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	6	1	mg/L

ALKALINITY TOTAL EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	200	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	200	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

 (continued on next page)

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 04-JUN-98 04:21 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	30.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 28-MAY-98 01:28 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	0.86	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: R. SHAMP Analysis Date: 01-JUN-98 13:24 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			

 (continued on next page)

HERITAGE ENVIRONMENTAL SERVICES, LLC **Sample ID: A443496 MW-11R**

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			
DICHLOROETHANE-D4	BDL		% Rec
TOLUENE-D8	BDL		% Rec
4-BROMOFLUOROBENZENE	BDL		% Rec
1:5 dilution			

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 71913.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	28-MAY-98		A443679
	Complete	PO Number	
	18-JUN-98	021406J012	
	Printed	Sampled	
	18-JUN-98	27-MAY-98 09:06	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-12I
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	3.5	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	15.5		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	6.9	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-70		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	4.4	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	654	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS Analysis Date: 28-MAY-98 17:00 Instrument: PREP Test: P203.4.0

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443679 MW-12I

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 01-JUN-98 10:30 Test: G203.4.0

Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	11	0.60	mg/L

1:5 dilution

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 03:43 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	4.6	0.25	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P132.4.0

Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:32 Instrument: ICP Test: M131.3.1

Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	29.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 08:39 Instrument: TRACE ICP Test: M108.0.1

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0

Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:32 Instrument: ICP Test: M110.3.1

Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:32 Instrument: ICP Test: M112.3.1

Prep: FIELD FILTRATION SAS P110.0.0

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

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443679 MW-12I

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:32 Instrument: ICP Test: M139.3.1

Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:32 Instrument: ICP Test: M115.3.1

Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	14.	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:32 Instrument: ICP Test: M118.3.1

Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	18.	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:32 Instrument: ICP Test: M119.3.1

Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.14	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:32 Instrument: ICP Test: M126.3.1

Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	1.4	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1

Analyst: A. KEYS Analysis Date: 01-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	320	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: K. FULLMER Analysis Date: 03-JUN-98 17:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	34	1	mg/L

ALKALINITY TOTAL EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	340	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	340	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 04-JUN-98 05:05 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	77.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 03:43 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: R. SHAMP Analysis Date: 02-JUN-98 13:56 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			

HERITAGE ENVIRONMENTAL SERVICES, LLC **Sample ID: A443679 MW-12I**

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			
DICHLOROETHANE-D4	111		% Rec
TOLUENE-D8	108		% Rec
4-BROMOFLUOROBENZENE	110		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 71938.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	28-MAY-98		A443680
	Complete	PO Number	
	18-JUN-98	021406J012	
	Printed	Sampled	
	18-JUN-98	27-MAY-98 09:06	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-12I DUP
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	3.5	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	15.5		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	6.9	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-70		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	4.4	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	654	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS | Analysis Date: 28-MAY-98 17:00 | Instrument: PREP | Test: P203.4.0

 (continued on next page)

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443680 MW-12I DUP

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 01-JUN-98 10:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	11	0.60	mg/L

1:5 dilution

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 04:00 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	4.5	0.25	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:35 Instrument: ICP Test: M131.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	30.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 08:43 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:35 Instrument: ICP Test: M110.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:35 Instrument: ICP Test: M112.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

 (continued on next page)

ZINC ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:35 Instrument: ICP Test: M139.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:35 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	14.	0.025	mg/L

MAGNESIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:35 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	19.	0.20	mg/L

MANGANESE ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:35 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.14	0.010	mg/L

POTASSIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:35 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	1.4	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1
Analyst: A. KEYS Analysis Date: 01-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	320	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2
Analyst: K. FULLMER Analysis Date: 03-JUN-98 17:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	34	1	mg/L

ALKALINITY TOTAL EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	340	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	340	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 04-JUN-98 05:08 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	79.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 04:00 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: R. SHAMP Analysis Date: 02-JUN-98 14:32 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443680 MW-12I DUP

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			

DICHLOROETHANE-D4	116		% Rec
TOLUENE-D8	103		% Rec
4-BROMOFLUOROBENZENE	109		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 71938.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	28-MAY-98		A443678
	Complete	PO Number	
	18-JUN-98	021406J012	
	Printed	Sampled	
	18-JUN-98	27-MAY-98 08:00	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-13R
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	7.8	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	15.7		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.1	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	182		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	2.5	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	709	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS | Analysis Date: 28-MAY-98 17:00 | Instrument: PREP | Test: P203.4.0

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443678 MW-13R

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 01-JUN-98 10:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	BDL	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 03:25 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	5.4	0.25	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:20 Instrument: ICP Test: M131.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	45.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 08:21 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:20 Instrument: ICP Test: M110.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:20 Instrument: ICP Test: M112.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:20 Instrument: ICP Test: M139.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:20 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	BDL	0.025	mg/L

MAGNESIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:20 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	36.	0.20	mg/L

MANGANESE ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:20 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.13	0.010	mg/L

POTASSIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:20 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	0.48	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1
Analyst: A. KEYS Analysis Date: 01-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	410	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2
Analyst: K. FULLMER Analysis Date: 03-JUN-98 17:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	22	1	mg/L

ALKALINITY TOTAL EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	400	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	400	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 04-JUN-98 04:52 Instrument: ICP Test: M109.3.0
Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	84.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 03:25 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	12	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: R. SHAMP Analysis Date: 02-JUN-98 13:21 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	115		% Rec

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443678 MW-13R

Parameter	Result	Det. Limit	Units
TOLUENE-D8	100		% Rec
4-BROMOFLUOROBENZENE	107		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 71938.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	27-MAY-98		A443499
	Complete	PO Number	
	22-JUN-98	021406J012	
	Printed	Sampled	
	23-JUN-98	26-MAY-98 16:18	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-13D
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	12.8	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	14.8		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.3	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-138		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	2.2	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	679	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS Analysis Date: 28-MAY-98 17:00 Instrument: PREP Test: P203.4.0

 (continued on next page)

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443499 MW-13D

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 01-JUN-98 10:30 Test: G203.4.0

Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	1.4	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 00:47 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	25	1.3	mg/L

1:5 DILUTION

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 02-JUN-98 10:00 Instrument: PREP Test: P132.4.0

Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:16 Instrument: ICP Test: M131.3.1

Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	95.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: G. MAPP Analysis Date: 17-JUN-98 21:54 Instrument: TRACE ICP Test: M108.0.1

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0

Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:16 Instrument: ICP Test: M110.3.1

Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:16 Instrument: ICP Test: M112.3.1

Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:16 Instrument: ICP Test: M139.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:16 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	4.6	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:16 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	17.	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:16 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.059	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:16 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	0.70	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1

Analyst: A. KEYS Analysis Date: 29-MAY-98 13:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	370	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: A. KEYS Analysis Date: 29-MAY-98 13:30 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	13	1	mg/L

ALKALINITY TOTAL EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	310	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	310	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

 (continued on next page)

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443499 MW-13D

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 04-JUN-98 04:26 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	41.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 28-MAY-98 02:56 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: R. SHAMP Analysis Date: 01-JUN-98 15:13 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			

 (continued on next page)

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			

DICHLOROETHANE-D4	111		% Rec
TOLUENE-D8	100		% Rec
4-BROMOFLUOROBENZENE	110		% Rec

1:5 dilution

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 71913.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	27-MAY-98		A443500
	Complete	PO Number	
	22-JUN-98	021406J012	
	Printed	Sampled	
	23-JUN-98	26-MAY-98 17:20	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-14R
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	3.9	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	16.0		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.1	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-78		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	2.8	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	747	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS Analysis Date: 28-MAY-98 17:00 Instrument: PREP Test: P203.4.0

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443500 MW-14R

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 01-JUN-98 10:30 Test: G203.4.0

Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	2.2	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 28-MAY-98 03:14 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	7.2	0.25	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 02-JUN-98 10:00 Instrument: PREP Test: P132.4.0

Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:18 Instrument: ICP Test: M131.3.1

Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	65.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: G. MAPP Analysis Date: 17-JUN-98 21:58 Instrument: TRACE ICP Test: M108.0.1

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0

Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:18 Instrument: ICP Test: M110.3.1

Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:18 Instrument: ICP Test: M112.3.1

Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:18 Instrument: ICP Test: M139.3.1

Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:18 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	6.4	0.025	mg/L

MAGNESIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:18 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	28.	0.20	mg/L

MANGANESE ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:18 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.56	0.010	mg/L

POTASSIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:18 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	0.70	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1
Analyst: A. KEYS Analysis Date: 29-MAY-98 13:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	440	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2
Analyst: A. KEYS Analysis Date: 01-JUN-98 16:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	6	1	mg/L

Sample exhibits poor replicability. Sample and duplicate analyzed twice.

ALKALINITY TOTAL EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	420	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	420	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 04-JUN-98 04:29 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	77.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 28-MAY-98 03:14 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	20	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: H. WILLIAMS Analysis Date: 01-JUN-98 08:37 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			

 (continued on next page)

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443500 MW-14R

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			
DICHLOROETHANE-D4	101		% Rec
TOLUENE-D8	91		% Rec
4-BROMOFLUOROBENZENE	115		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 71913.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	27-MAY-98		A443498
	Complete	PO Number	
	22-JUN-98	021406J012	
	Printed	Sampled	
	23-JUN-98	26-MAY-98 15:29	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-14D
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	20.4	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	15.0		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	6.8	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-84		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	3.2	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN Analysis Date: 26-MAY-98 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	846	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS Analysis Date: 28-MAY-98 17:00 Instrument: PREP Test: P203.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 01-JUN-98 10:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	11	0.60	mg/L

1:5 dilution

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 28-MAY-98 02:39 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	20	0.25	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 02-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:13 Instrument: ICP Test: M131.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	63.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: G. MAPP Analysis Date: 17-JUN-98 21:42 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:13 Instrument: ICP Test: M110.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:13 Instrument: ICP Test: M112.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:13 Instrument: ICP Test: M139.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:13 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	7.8	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:13 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	26.	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:13 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.20	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 16:13 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	1.5	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1

Analyst: A. KEYS Analysis Date: 29-MAY-98 13:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	440	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: A. KEYS Analysis Date: 29-MAY-98 13:30 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	26	1	mg/L

ALKALINITY TOTAL EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	440	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	440	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 04-JUN-98 04:23 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	83.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 28-MAY-98 02:39 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: R. SHAMP Analysis Date: 01-JUN-98 14:37 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			

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HERITAGE ENVIRONMENTAL SERVICES, LLC **Sample ID: A443498 MW-14D**

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			
DICHLOROETHANE-D4	114		% Rec
TOLUENE-D8	105		% Rec
4-BROMOFLUOROBENZENE	115		% Rec
1:5 dilution			

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 71913.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	28-MAY-98		A443681
	Complete: 18-JUN-98	PO Number: 021406J012	
	Printed: 18-JUN-98	Sampled: 27-MAY-98 10:09	

Report To

JEFF JENKINS
BFI WASTE SYSTEMS
2211 GLENVIEW DRIVE
EVANSVILLE, IN 47720

Bill To

ACCOUNTS PAYABLE
BFI WASTE SYSTEMS
P O BOX 4309
EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-15R D&G 9/19/2002
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	2.4	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	15.2		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.3	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-126		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	3.1	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN | Analysis Date: 27-MAY-98 | Instrument: FIELD | Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	655	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS | Analysis Date: 28-MAY-98 17:00 | Instrument: PREP | Test: P203.4.0

 (continued on next page)

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 01-JUN-98 10:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	1.5	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 04:18 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	22	0.25	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:37 Instrument: ICP Test: M131.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	71.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 08:46 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:37 Instrument: ICP Test: M110.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:37 Instrument: ICP Test: M112.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:37 Instrument: ICP Test: M139.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:37 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	12.	0.025	mg/L

MAGNESIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:37 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	34.	0.20	mg/L

MANGANESE ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:37 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.29	0.010	mg/L

POTASSIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:37 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	0.59	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1
Analyst: A. KEYS Analysis Date: 01-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	490	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2
Analyst: K. FULLMER Analysis Date: 03-JUN-98 17:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	23	1	mg/L

ALKALINITY TOTAL EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	460	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	460	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443681 MW-15R

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 04-JUN-98 05:11 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	91.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 04:18 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: R. SHAMP Analysis Date: 03-JUN-98 07:17 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	110		% Rec

 (continued on next page)

9/04/MN

HERITAGE ENVIRONMENTAL SERVICES, LLC **Sample ID: A443681 MW-15R**

Parameter	Result	Det. Limit	Units
TOLUENE-D8	107		% Rec
4-BROMOFLUOROBENZENE	101		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 71938.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	28-MAY-98		A443684
	Complete	PO Number	
	18-JUN-98	021406J012	
	Printed	Sampled	
	18-JUN-98	27-MAY-98 15:04	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-336D
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	1.4	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	15.9		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.4	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-104		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	2.3	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN Analysis Date: 27-MAY-98 Instrument: FIELD Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	723	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS Analysis Date: 28-MAY-98 17:00 Instrument: PREP Test: P203.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 01-JUN-98 10:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.31	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 20:15 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	38	1.3	mg/L

1:5 dilution

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:44 Instrument: ICP Test: M131.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	110	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 08:57 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:44 Instrument: ICP Test: M110.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:44 Instrument: ICP Test: M112.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:44 Instrument: ICP Test: M139.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:44 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	3.9	0.025	mg/L

MAGNESIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:44 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	22.	0.20	mg/L

MANGANESE ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:44 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	1.0	0.010	mg/L

POTASSIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 17:44 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	0.60	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1

Analyst: A. KEYS Analysis Date: 01-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	490	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2

Analyst: K. FULLMER Analysis Date: 03-JUN-98 17:00 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	7	1	mg/L

ALKALINITY TOTAL EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	440	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	440	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1

Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 03-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 04-JUN-98 05:16 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	74.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 29-MAY-98 06:04 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	BDL	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: R. SHAMP Analysis Date: 03-JUN-98 10:50 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			

 (continued on next page)

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443684 MW-336D

Parameter	Result	Det. Limit	Units
SURROGATE RECOVERY			

DICHLOROETHANE-D4	117		% Rec
TOLUENE-D8	106		% Rec
4-BROMOFLUOROBENZENE	108		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 71938.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	29-MAY-98		A443941
	Complete	PO Number	
	18-JUN-98	021406J012	
	Printed	Sampled	
	18-JUN-98	28-MAY-98 10:53	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: MW-337
DESCRIPTION: TABLE A

FIELD TURBIDITY EPA 180.1

Analyst: C. WRIN | Analysis Date: 28-MAY-98 | Instrument: FIELD | Test: G602.0.0

Parameter	Result	Det. Limit	Units
TURBIDITY	10.9	0.1	ntu

FIELD TEMPERATURE EPA 170.1

Analyst: C. WRIN | Analysis Date: 28-MAY-98 | Instrument: FIELD | Test: G603.0.0

Parameter	Result	Det. Limit	Units
TEMPERATURE	18.0		Degrees C

FIELD PH (AQUEOUS) SW846-9040B

Analyst: C. WRIN | Analysis Date: 28-MAY-98 | Instrument: FIELD | Test: G607.0.0

Parameter	Result	Det. Limit	Units
PH	7.4	0.1	Std. Units

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED

Analyst: C. WRIN | Analysis Date: 28-MAY-98 | Instrument: FIELD | Test: G604.7.0

Parameter	Result	Det. Limit	Units
OXIDATION/REDUCTION POTENTIAL	-146		mV

FIELD DISSOLVED OXYGEN SAS

Analyst: C. WRIN | Analysis Date: 28-MAY-98 | Instrument: FIELD | Test: G600.1.0

Parameter	Result	Det. Limit	Units
DISSOLVED OXYGEN	2.5	1	mg/L

FIELD SPECIFIC CONDUCTANCE SW846-9050

Analyst: C. WRIN | Analysis Date: 28-MAY-98 | Instrument: FIELD | Test: G604.0.0

Parameter	Result	Det. Limit	Units
CONDUCTIVITY	693	1.0	umHOS/cm

AMMONIA DISTILLATION EPA 350.2

Analyst: T. DRIGGERS | Analysis Date: 01-JUN-98 15:00 | Instrument: PREP | Test: P203.4.0

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443941 MW-337

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	200		mL
FINAL VOLUME	250		mL

AMMONIA NITROGEN EPA 350.3

Analyst: K. BUNCH Analysis Date: 03-JUN-98 12:30 Test: G203.4.0
Prep: AMMONIA DISTILLATION EPA 350.2 P203.4.0

Parameter	Result	Det. Limit	Units
NITROGEN, AMMONIA	0.59	0.12	mg/L

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 02-JUN-98 07:49 Instrument: IC Test: G310.2.0

Parameter	Result	Det. Limit	Units
CHLORIDE	23	0.25	mg/L

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 08-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:05 Instrument: ICP Test: M131.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	90.	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 10:37 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:05 Instrument: ICP Test: M110.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:05 Instrument: ICP Test: M112.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

ZINC ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:05 Instrument: ICP Test: M139.3.1
Prep: FIELD FILTRATION SAS P110.0.0

 (continued on next page)

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

IRON ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:05 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	3.5	0.025	mg/L

MAGNESIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:05 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	20.	0.20	mg/L

MANGANESE ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:05 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MANGANESE	0.51	0.010	mg/L

POTASSIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:05 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	0.93	0.20	mg/L

DISSOLVED SOLIDS EPA 160.1
Analyst: K. FULLMER Analysis Date: 04-JUN-98 17:00 Test: G402.7.0

Parameter	Result	Det. Limit	Units
DISSOLVED SOLIDS	410	10	mg/L

TOTAL SUSPENDED SOLIDS EPA 160.2
Analyst: K. FULLMER Analysis Date: 04-JUN-98 14:30 Test: G403.7.0

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	24	1	mg/L

ALKALINITY TOTAL EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G605.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	350	1.0	mg/L

ALKALINITY (BICARBONATE) EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G610.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	350	1.0	mg/L

ALKALINITY (CARBONATE) EPA 310.1
Analyst: T. DRIGGERS Analysis Date: 01-JUN-98 16:00 Test: G611.2.0

Parameter	Result	Det. Limit	Units
ALKALINITY	BDL	1.0	mg/L

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 04-JUN-98 10:00 Instrument: PREP Test: P130.4.0

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

CALCIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 08-JUN-98 16:35 Instrument: ICP Test: M109.3.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Parameter	Result	Det. Limit	Units
CALCIUM	49.	0.20	mg/L

SULFATE BY ION CHROMATOGRAPHY SW846-9056

Analyst: M. ADKINS Analysis Date: 02-JUN-98 07:49 Instrument: IC Test: G310.7.0

Parameter	Result	Det. Limit	Units
SULFATE	0.79	0.25	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B

Analyst: H. WILLIAMS Analysis Date: 03-JUN-98 10:24 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	106		% Rec

 (continued on next page)

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443941 MW-337

Parameter	Result	Det. Limit	Units
TOLUENE-D8	90		% Rec
4-BROMOFLUOROBENZENE	113		% Rec
Dilution 1:5			

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 75094.

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Approved : P.K. Spence

CERTIFICATE OF ANALYSIS

Service Location	Received	Project	Lab ID
HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	29-MAY-98		A443942
	Complete	PO Number	
	18-JUN-98	021406J012	
	Printed	Sampled	
	18-JUN-98	28-MAY-98 10:45	

Report To	Bill To
JEFF JENKINS BFI WASTE SYSTEMS 2211 GLENVIEW DRIVE EVANSVILLE, IN 47720	ACCOUNTS PAYABLE BFI WASTE SYSTEMS P O BOX 4309 EVANSVILLE, IN 47724-0309

Sample Description

CLIENT ID: FIELD BLANK
DESCRIPTION: TABLE A

FIELD FILTRATION SAS

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

FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A

Analyst: E. BERTRAM Analysis Date: 08-JUN-98 10:00 Instrument: PREP Test: P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

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

SODIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:07 Instrument: ICP Test: M131.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
SODIUM	BDL	0.20	mg/L

CADMIUM TRACE ICP SW846-6010B

Analyst: A. STOCKBURGER Analysis Date: 12-JUN-98 10:40 Instrument: TRACE ICP Test: M108.0.1
Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOUS SAMPLES SW846-3005A P132.4.0
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0010	mg/L

CHROMIUM ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:07 Instrument: ICP Test: M110.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

COPPER ICP SW846-6010B

Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:07 Instrument: ICP Test: M112.3.1
Prep: FIELD FILTRATION SAS P110.0.0

HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A443942 FIELD BLANK

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

ZINC ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:07 Instrument: ICP Test: M139.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

IRON ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:07 Instrument: ICP Test: M115.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
IRON	BDL	0.025	mg/L

MAGNESIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:07 Instrument: ICP Test: M118.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
MAGNESIUM	BDL	0.20	mg/L

MANGANESE ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:07 Instrument: ICP Test: M119.3.1
Prep: FIELD FILTRATION SAS P110.0.0

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

POTASSIUM ICP SW846-6010B
Analyst: E. MERRILL Analysis Date: 03-JUN-98 19:07 Instrument: ICP Test: M126.3.1
Prep: FIELD FILTRATION SAS P110.0.0

Parameter	Result	Det. Limit	Units
POTASSIUM	BDL	0.20	mg/L

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B
Analyst: H. WILLIAMS Analysis Date: 03-JUN-98 11:01 Instrument: GC/MS VOA Test: O510.6.0

Parameter	Result	Det. Limit	Units
BENZENE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
BROMOMETHANE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	5	ug/L
CHLOROFORM	48	5	ug/L
CHLOROMETHANE	BDL	5	ug/L
1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	BDL	5	ug/L
1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
CIS-1,2-DICHLOROETHENE	BDL	5	ug/L
TRANS-1,2-DICHLOROETHENE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L

 (continued on next page)

HERITAGE ENVIRONMENTAL SERVICES, LLC **Sample ID: A443942 FIELD BLANK**

Parameter	Result	Det. Limit	Units
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
STYRENE	BDL	5	ug/L
1,1,1,2-TETRACHLOROETHANE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TOLUENE	BDL	5	ug/L
1,1,1-TRICHLOROETHANE	BDL	5	ug/L
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
VINYL CHLORIDE	BDL	2	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
...			
SURROGATE RECOVERY			

DICHLOROETHANE-D4	106		% Rec
TOLUENE-D8	91		% Rec
4-BROMOFLUOROBENZENE	109		% Rec

Dilution 1:5

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 75094.

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Approved : RK Spence

QUALITY ASSURANCE REPORT

Service Location
;ERITAGE ENVIRONMENTAL SERVICES, LLC
COMMERCIAL LABORATORY OPERATIONS
7901 W. MORRIS ST.
INDIANAPOLIS, IN 46231
(317)243-8304

Report Date
25-JUN-98

Submitter
BFI WASTE SYSTEMS
JEFF JENKINS
2020 LAUBSCHER ROAD
EVANSVILLE, IN 47720

Client ID	Lab ID	Date-Time Sampled	Date Received	Date Complete	Description
MW-11R	A443496	26-MAY-98 13:03	27-MAY-98	22-JUN-98	DESCRIPTION: TABLE A
FW-10	A443497	26-MAY-98 14:18	27-MAY-98	22-JUN-98	DESCRIPTION: TABLE A
MW-14D	A443498	26-MAY-98 15:29	27-MAY-98	22-JUN-98	DESCRIPTION: TABLE A
MW-13D	A443499	26-MAY-98 16:18	27-MAY-98	22-JUN-98	DESCRIPTION: TABLE A
MW-14R	A443500	26-MAY-98 17:20	27-MAY-98	22-JUN-98	DESCRIPTION: TABLE A
MW-13R	A443678	27-MAY-98 08:00	28-MAY-98	18-JUN-98	DESCRIPTION: TABLE A
MW-12I	A443679	27-MAY-98 09:06	28-MAY-98	18-JUN-98	DESCRIPTION: TABLE A
MW-12I DUP	A443680	27-MAY-98 09:06	28-MAY-98	18-JUN-98	DESCRIPTION: TABLE A
MW-15R	A443681	27-MAY-98 10:09	28-MAY-98	18-JUN-98	DESCRIPTION: TABLE A
MW-3R	A443682	27-MAY-98 11:06	28-MAY-98	24-JUN-98	DESCRIPTION: TABLE A
W-3R1	A443683	27-MAY-98 11:55	28-MAY-98	18-JUN-98	DESCRIPTION: LEACHATE COLLECTION SYSTEM PERFORMANCE WELLS
.W-336D	A443684	27-MAY-98 15:04	28-MAY-98	18-JUN-98	DESCRIPTION: TABLE A
MW-4R	A443685	27-MAY-98 15:50	28-MAY-98	18-JUN-98	DESCRIPTION: TABLE A
MW-4D	A443686	27-MAY-98 16:45	28-MAY-98	18-JUN-98	DESCRIPTION: TABLE A
MW-3R2	A443936	28-MAY-98 07:15	29-MAY-98	18-JUN-98	DESCRIPTION: LEACHATE COLLECTION SYSTEM PERFORMANCE WELLS
MW-2R	A443937	28-MAY-98 07:30	29-MAY-98	18-JUN-98	DESCRIPTION: TABLE A
MW-5R	A443938	28-MAY-98 08:46	29-MAY-98	18-JUN-98	DESCRIPTION: TABLE A
MW-5R1	A443939	28-MAY-98 09:27	29-MAY-98	18-JUN-98	DESCRIPTION: LEACHATE COLLECTION SYSTEM PERFORMANCE WELLS
MW-5R2	A443940	28-MAY-98 11:17	29-MAY-98	18-JUN-98	DESCRIPTION: LEACHATE COLLECTION SYSTEM PERFORMANCE WELLS
MW-337	A443941	28-MAY-98 10:53	29-MAY-98	18-JUN-98	DESCRIPTION: TABLE A
FIELD BLANK	A443942	28-MAY-98 10:45	29-MAY-98	18-JUN-98	DESCRIPTION: TABLE A

HERITAGE ENVIRONMENTAL SERVICES, LLC

AMMONIA NITROGEN EPA 350.3 G203.4

Prep: AMMONIA DISTILLATION EPA 350.2

Run: R349256 Analyst.: T DRIGGERS Run Date...: 28-MAY-98
PREP Reviewer: K FULLMER Review Date: 29-MAY-98

QC Type	Lab ID	Source	Anal Run
BLA02	Q841025		R349424
LFB02	Q841026		R349424
SPI02	Q841029	A443116	R349424
DPS02	Q841030	A443116	R349424
SAMPLE	A443496	Rep: 0	R349424
SAMPLE	A443497	Rep: 0	R349424
SAMPLE	A443498	Rep: 0	R349424
SAMPLE	A443499	Rep: 0	R349424
SAMPLE	A443500	Rep: 0	R349424
DUP02	Q841041	A443500	R349424
BLA02	Q841044		R349424
LFB02	Q841045		R349424
SAMPLE	A443681	Rep: 0	R349424
SAMPLE	A443682	Rep: 0	R349424
SAMPLE	A443683	Rep: 0	R349424
SAMPLE	A443684	Rep: 0	R349424
SAMPLE	A443685	Rep: 0	R349424
SAMPLE	A443679	Rep: 0	R349424
SAMPLE	A443680	Rep: 0	R349424
SAMPLE	A443686	Rep: 0	R349424
BLA02	Q841052		R349424
LFB02	Q841053		R349424
[illegible]MPLE	A443678	Rep: 0	R349424
[illegible]LA02	Q841063		R349424
LFB02	Q841070		R349424

Run: R349423 Analyst.: T DRIGGERS Run Date...: 01-JUN-98
PREP Reviewer: K FULLMER Review Date: 02-JUN-98

BLA02	Q842444		R349587
LFB02	Q842445		R349587
DUP02	Q842446	A443759	R349587
SAMPLE	A443936	Rep: 0	R349587
SAMPLE	A443937	Rep: 0	R349587
SAMPLE	A443938	Rep: 0	R349587
SAMPLE	A443939	Rep: 0	R349587
SAMPLE	A443940	Rep: 0	R349587
SPI02	Q842449	A443940	R349587
DPS02	Q842450	A443940	R349587
SAMPLE	A443941	Rep: 0	R349587

Run: R349424 Analyst.: K BUNCH Run Date...: 01-JUN-98
ANALYTICAL Reviewer: K FULLMER Review Date: 02-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q841022		NITROGEN, AMMONIA			0.0562	mg/L		
ICV01	Q841023		NITROGEN, AMMONIA	0.572		0.543	mg/L	94.9	
CDL01	Q841024		NITROGEN, AMMONIA	0.1		0.107	mg/L	107	
BLA02	Q841025		NITROGEN, AMMONIA			0.11	mg/L		
LFB02	Q841026		NITROGEN, AMMONIA	5		5.35	mg/L	107	
CCV	Q841027		NITROGEN, AMMONIA	1		0.919	mg/L	91.9	
SPI02	Q841029	A443116	NITROGEN, AMMONIA	0.13	2.5	2.48	mg/L	94	
S02	Q841030	A443116	NITROGEN, AMMONIA	0.13	2.5	2.48	mg/L	94	0

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
CCV	Q841039		NITROGEN, AMMONIA	1		0.957	mg/L	95.7	
BLA01	Q841040		NITROGEN, AMMONIA			0.0375	mg/L		
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
DUP02	Q841041	A443500	NITROGEN, AMMONIA	2.2		2.2	mg/L		0
CCV	Q841042		NITROGEN, AMMONIA	1		0.997	mg/L	99.7	
BLA01	Q841043		NITROGEN, AMMONIA			0.0319	mg/L		
BLA02	Q841044		NITROGEN, AMMONIA			0.0896	mg/L		
LFB02	Q841045		NITROGEN, AMMONIA	5		5.14	mg/L	102.8	
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
SAMPLE	A443683		See Cert. of Analysis, Rep: 0						
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
CCV	Q841046		NITROGEN, AMMONIA	1		0.919	mg/L	91.9	
BLA01	Q841047		NITROGEN, AMMONIA			0.0346	mg/L		
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
SAMPLE	A443686		See Cert. of Analysis, Rep: 0						
CCV	Q841048		NITROGEN, AMMONIA	1		0.919	mg/L	91.9	
BLA01	Q841049		NITROGEN, AMMONIA			0.0346	mg/L		
BLA02	Q841052		NITROGEN, AMMONIA			0.114	mg/L		
LFB02	Q841053		NITROGEN, AMMONIA	5		5.14	mg/L	102.8	
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
A02	Q841063		NITROGEN, AMMONIA			0.0794	mg/L		
LFB02	Q841070		NITROGEN, AMMONIA	5		5.14	mg/L	102.8	
CCV	Q841064		NITROGEN, AMMONIA	1		0.997	mg/L	99.7	
BLA01	Q841077		NITROGEN, AMMONIA			0.0271	mg/L		

Run: R349587 Analyst.: K BUNCH Run Date...: 03-JUN-98
ANALYTICAL Reviewer: B SHRAKE Review Date: 03-JUN-98

BLA01	Q842441		NITROGEN, AMMONIA			0.0518	mg/L		
ICV01	Q842442		NITROGEN, AMMONIA	0.572		0.6	mg/L	104.9	
CDL01	Q842443		NITROGEN, AMMONIA	0.1		0.0996	mg/L	99.6	
BLA02	Q842444		NITROGEN, AMMONIA			0.106	mg/L		
LFB02	Q842445		NITROGEN, AMMONIA	5		4.9	mg/L	98	
DUP02	Q842446	A443759	NITROGEN, AMMONIA	4		3.8	mg/L		5.1
CCV	Q842447		NITROGEN, AMMONIA	1		1.02	mg/L	102	
SAMPLE	A443936		See Cert. of Analysis, Rep: 0						
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						
SAMPLE	A443939		See Cert. of Analysis, Rep: 0						
SAMPLE	A443940		See Cert. of Analysis, Rep: 0						
SPI02	Q842449	A443940	NITROGEN, AMMONIA	0	2.5	2.26	mg/L	90.4	
DPS02	Q842450	A443940	NITROGEN, AMMONIA	0	2.5	2.35	mg/L	94	3.9
CCV	Q842451		NITROGEN, AMMONIA	1		0.979	mg/L	97.9	
BLA01	Q842452		NITROGEN, AMMONIA			0.0344	mg/L		
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						
CCV	Q842453		NITROGEN, AMMONIA	1		1.02	mg/L	102	
BLA01	Q842454		NITROGEN, AMMONIA			0.027	mg/L		

HERITAGE ENVIRONMENTAL SERVICES, LLC

CHEMICAL OXYGEN DEMAND (COLORIMETRIC) EPA 410.4 G301.1

Run: R349847 Analyst.: K STALOWICZ Run Date...: 08-JUN-98
ANALYTICAL Reviewer: B SHRAKE Review Date: 08-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q844231		CHEMICAL OXYGEN DEMAND			-1.51	mg/L		
CDL01	Q844232		CHEMICAL OXYGEN DEMAND	30		26.8	mg/L	89.3	
ICV01	Q844233		CHEMICAL OXYGEN DEMAND	124		129	mg/L	104	
SAMPLE	A443683		See Cert. of Analysis, Rep: 0						
SPI01	Q844234	A443683	CHEMICAL OXYGEN DEMAND	0	50	52.1	mg/L	104.2	
DPS01	Q844235	A443683	CHEMICAL OXYGEN DEMAND	0	50	52.4	mg/L	104.8	.6
SAMPLE	A443936		See Cert. of Analysis, Rep: 0						
CCV	Q844236		CHEMICAL OXYGEN DEMAND	100		84.7	mg/L	84.7	
BLA01	Q844237		CHEMICAL OXYGEN DEMAND			-6.83	mg/L		

Run: R350077 Analyst.: A WININGER Run Date...: 09-JUN-98
ANALYTICAL Reviewer: B SHRAKE Review Date: 10-JUN-98

BLA01	Q846083		CHEMICAL OXYGEN DEMAND			-2.52	mg/L		
CDL01	Q846084		CHEMICAL OXYGEN DEMAND	30		35.3	mg/L	117.7	
ICV01	Q846085		CHEMICAL OXYGEN DEMAND	124		134	mg/L	108.1	
SAMPLE	A443939		See Cert. of Analysis, Rep: 0						
SAMPLE	A443940		See Cert. of Analysis, Rep: 0						
CCV	Q846086		CHEMICAL OXYGEN DEMAND	100		104	mg/L	104	
BLA01	Q846087		CHEMICAL OXYGEN DEMAND			-1.89	mg/L		
SPI01	Q846088	A444670	CHEMICAL OXYGEN DEMAND	17	50	53.4	mg/L	72.8	
DPS01	Q846089	A444670	CHEMICAL OXYGEN DEMAND	17	50	54.4	mg/L	74.8	2.7
DUP01	Q846124	A444884	CHEMICAL OXYGEN DEMAND	22		23	mg/L		4.4

Comments

846088 Sample exhibits low spike recovery. Spike analyzed twice.
Q846089 Sample exhibits low spike recovery. Spike analyzed twice.

CHLORIDE BY ION CHROMATOGRAPHY SW846-9056 G310.2

Run: R349169 Analyst.: M ADKINS Run Date...: 27-MAY-98 Instrument: IC
ANALYTICAL Reviewer: E WERNZ Review Date: 29-MAY-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q839281		CHLORIDE			< 0.1	mg/L		
CCVL	Q839282		CHLORIDE	1.25		1.24	mg/L	99.2	
CCVH	Q839283		CHLORIDE	12.5		11.5	mg/L	92	
LFB01	Q839284		CHLORIDE	2.5		2.44	mg/L	97.6	
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
CCVL	Q839299		CHLORIDE	1.25		1.26	mg/L	100.8	
CCVH	Q839300		CHLORIDE	12.5		11.6	mg/L	92.8	
BLA01	Q839301		CHLORIDE			< 0.1	mg/L		
SPI01	Q839302	A443061	CHLORIDE	3.38	2.5	6.09	mg/L	108.4	
DPS01	Q839303	A443061	CHLORIDE	3.38	2.5	6.07	mg/L	107.6	.7

Run: R349311 Analyst.: M ADKINS Run Date...: 28-MAY-98 Instrument: IC
ANALYTICAL Reviewer: E WERNZ Review Date: 31-MAY-98

BLA01	Q840253		CHLORIDE			< 0.1	mg/L		
CCVL	Q840254		CHLORIDE	1.25		1.25	mg/L	100	
CCVH	Q840255		CHLORIDE	12.5		11.7	mg/L	93.6	
B01	Q840256		CHLORIDE	2.5		2.52	mg/L	100.8	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
CCVL	Q840259		CHLORIDE	1.25		1.28	mg/L	102.4	
CCVH	Q840260		CHLORIDE	12.5		11.7	mg/L	93.6	
BLA01	Q840261		CHLORIDE			< 0.1	mg/L		
SPI01	Q840262	A443256	CHLORIDE	32.7	12.5	46.9	mg/L	113.6	
DPS01	Q840263	A443256	CHLORIDE	32.7	12.5	46.9	mg/L	113.6	0
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
CCVL	Q840264		CHLORIDE	1.25		1.28	mg/L	102.4	
CCVH	Q840265		CHLORIDE	12.5		11.7	mg/L	93.6	
BLA01	Q840266		CHLORIDE			< 0.1	mg/L		
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
SAMPLE	A443686		See Cert. of Analysis, Rep: 0						
CCVL	Q840269		CHLORIDE	1.25		1.3	mg/L	104	
CCVH	Q840270		CHLORIDE	12.5		11.8	mg/L	94.4	
BLA01	Q840271		CHLORIDE			< 0.1	mg/L		
SPI01	Q840272	A443637	CHLORIDE	5.13	125	126	mg/L	96.7	
DPS01	Q840273	A443637	CHLORIDE	5.13	125	127	mg/L	97.5	.8

Run: R349404 Analyst.: M ADKINS Run Date...: 29-MAY-98 Instrument: IC
ANALYTICAL Reviewer: E WERNZ Review Date: 02-JUN-98

CCVL	Q840893		CHLORIDE	1.25		1.26	mg/L	100.8	
CCVH	Q840894		CHLORIDE	12.5		11.9	mg/L	95.2	
LFB01	Q840895		CHLORIDE	2.5		2.47	mg/L	98.8	
SAMPLE	A443683		See Cert. of Analysis, Rep: 0						
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						
CCVL	Q840896		CHLORIDE	1.25		1.32	mg/L	105.6	
CCVH	Q840897		CHLORIDE	12.5		12	mg/L	96	
BLA01	Q840905		CHLORIDE			< 0.1	mg/L		
SPI01	Q840906	A443640	CHLORIDE	3	125	132	mg/L	103.2	
DPS01	Q840907	A443640	CHLORIDE	3	125	132	mg/L	103.2	0

Run: R349567 Analyst.: M ADKINS Run Date...: 01-JUN-98 Instrument: IC
ANALYTICAL Reviewer: E WERNZ Review Date: 03-JUN-98

BLA01	Q842259		CHLORIDE			< 0.1	mg/L		
CCVL	Q842260		CHLORIDE	1.25		1.26	mg/L	100.8	
CCVH	Q842261		CHLORIDE	12.5		11.8	mg/L	94.4	
LFB01	Q842262		CHLORIDE	2.5		2.5	mg/L	100	
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						
CCVL	Q842294		CHLORIDE	1.25		1.31	mg/L	104.8	
CCVH	Q842295		CHLORIDE	12.5		11.8	mg/L	94.4	
BLA01	Q842296		CHLORIDE			< 0.1	mg/L		
SPI01	Q842299	A444041	CHLORIDE	3.75	12.5	17.4	mg/L	109.2	
DPS01	Q842300	A444041	CHLORIDE	3.75	12.5	17.5	mg/L	110	.7

Run: R349755 Analyst.: M ADKINS Run Date...: 03-JUN-98 Instrument: IC
ANALYTICAL Reviewer: E WERNZ Review Date: 05-JUN-98

BLA01	Q843594		CHLORIDE			< 0.1	mg/L		
CCVL	Q843595		CHLORIDE	1.25		1.28	mg/L	102.4	
CCVH	Q843596		CHLORIDE	12.5		11.9	mg/L	95.2	
LFB01	Q843597		CHLORIDE	2.5		2.25	mg/L	90	
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SPI01	Q843622	A443938	CHLORIDE	45.6	12.5	58.8	mg/L	105.6	
DPS01	Q843623	A443938	CHLORIDE	45.6	12.5	59.4	mg/L	110.4	4.4
SAMPLE	A443939		See Cert. of Analysis, Rep: 0						
SAMPLE	A443940		See Cert. of Analysis, Rep: 0						
CCVL	Q843624		CHLORIDE	1.25		1.36	mg/L	108.8	
CCVH	Q843625		CHLORIDE	12.5		12	mg/L	96	
BLA01	Q843626		CHLORIDE			< 0.1	mg/L		

Run: R349803 Analyst.: M ADKINS Run Date...: 04-JUN-98 Instrument: IC
ANALYTICAL Reviewer: E WERNZ Review Date: 08-JUN-98

BLA01	Q843890		CHLORIDE			< 0.1	mg/L		
CCVL	Q843891		CHLORIDE	1.25		1.31	mg/L	104.8	
CCVH	Q843892		CHLORIDE	12.5		12.1	mg/L	96.8	
SPI01	Q843908	A443288	CHLORIDE	26.3	12.5	40.6	mg/L	114.4	
DPS01	Q843909	A443288	CHLORIDE	26.3	12.5	40.6	mg/L	114.4	0
SAMPLE	A443936		See Cert. of Analysis, Rep: 0						
CCVL	Q843910		CHLORIDE	1.25		1.27	mg/L	101.6	
CCVH	Q843911		CHLORIDE	12.5		11.8	mg/L	94.4	
BLA01	Q843912		CHLORIDE			< 0.1	mg/L		

SULFATE BY ION CHROMATOGRAPHY SW846-9056 G310.7

Run: R349169 Analyst.: M ADKINS Run Date...: 27-MAY-98 Instrument: IC
ANALYTICAL Reviewer: E WERNZ Review Date: 29-MAY-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q839281		SULFATE			< 0.1	mg/L		
CCVL	Q839282		SULFATE	2.5		2.41	mg/L	96.4	
CCVH	Q839283		SULFATE	25		22.9	mg/L	91.6	
LFB01	Q839284		SULFATE	5		4.81	mg/L	96.2	
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SPI01	Q839297	A443496	SULFATE	0.778	5	5.98	mg/L	104	
DPS01	Q839298	A443496	SULFATE	0.778	5	5.99	mg/L	104.2	.2
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
CCVL	Q839299		SULFATE	2.5		2.38	mg/L	95.2	
CCVH	Q839300		SULFATE	25		23	mg/L	92	
BLA01	Q839301		SULFATE			< 0.1	mg/L		

Run: R349311 Analyst.: M ADKINS Run Date...: 28-MAY-98 Instrument: IC
ANALYTICAL Reviewer: E WERNZ Review Date: 31-MAY-98

BLA01	Q840253		SULFATE			< 0.1	mg/L		
CCVL	Q840254		SULFATE	2.5		2.41	mg/L	96.4	
CCVH	Q840255		SULFATE	25		23.3	mg/L	93.2	
LFB01	Q840256		SULFATE	5		4.89	mg/L	97.8	
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
CCVL	Q840264		SULFATE	2.5		2.41	mg/L	96.4	
CCVH	Q840265		SULFATE	25		23.1	mg/L	92.4	
BLA01	Q840266		SULFATE			< 0.1	mg/L		
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SPI01	Q840267	A443684	SULFATE	0.026	5	4.87	mg/L	96.9	
'S01	Q840268	A443684	SULFATE	0.026	5	4.9	mg/L	97.5	.6
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
SAMPLE	A443686		See Cert. of Analysis, Rep: 0						
CCVL	Q840269		SULFATE	2.5		2.41	mg/L	96.4	
CCVH	Q840270		SULFATE	25		23.3	mg/L	93.2	
BLA01	Q840271		SULFATE			< 0.1	mg/L		

Run: R349567 Analyst.: M ADKINS Run Date...: 01-JUN-98 Instrument: IC
ANALYTICAL Reviewer: E WERNZ Review Date: 03-JUN-98

BLA01	Q842259		SULFATE			< 0.1	mg/L		
CCVL	Q842260		SULFATE	2.5		2.44	mg/L	97.6	
CCVH	Q842261		SULFATE	25		23.3	mg/L	93.2	
LFB01	Q842262		SULFATE	5		4.9	mg/L	98	
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						
CCVL	Q842294		SULFATE	2.5		2.43	mg/L	97.2	
CCVH	Q842295		SULFATE	25		23.1	mg/L	92.4	
BLA01	Q842296		SULFATE			< 0.1	mg/L		
SPI01	Q842299	A444041	SULFATE	75.2	25	103	mg/L	111.2	
DPS01	Q842300	A444041	SULFATE	75.2	25	103	mg/L	111.2	0

DISSOLVED SOLIDS EPA 160.1 G402.7

Run: R349561 Analyst.: A KEYS Run Date...: 29-MAY-98
ANALYTICAL Reviewer: K FULLMER Review Date: 03-JUN-98

; Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q842222		DISSOLVED SOLIDS			-21	mg/L		
LCS01	Q842223		DISSOLVED SOLIDS	953		926	mg/L	97.2	
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SPI01	Q842224	A443496	DISSOLVED SOLIDS	180	250	409	mg/L	91.6	
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
DUP01	Q842232	A443497	DISSOLVED SOLIDS	410		420	mg/L		2.4
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
LCS01	Q842233		DISSOLVED SOLIDS	953		903	mg/L	94.8	
BLA01	Q842234		DISSOLVED SOLIDS			-20	mg/L		

Run: R349753 Analyst.: A KEYS Run Date...: 01-JUN-98
ANALYTICAL Reviewer: K FULLMER Review Date: 05-JUN-98

BLA01	Q843576		DISSOLVED SOLIDS			-5	mg/L		
LCS01	Q843577		DISSOLVED SOLIDS	705		697	mg/L	98.9	
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
SPI01	Q843578	A443678	DISSOLVED SOLIDS	205	250	441	mg/L	94.4	
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
DUP01	Q843579	A443680	DISSOLVED SOLIDS	320		310	mg/L		3.2
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
SAMPLE	A443683		See Cert. of Analysis, Rep: 0						
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
AMPLE	A443686		See Cert. of Analysis, Rep: 0						

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
DPS01	Q843585	A444041	DISSOLVED SOLIDS	195	250	442	mg/L	98.8	1.2
CS01	Q843586		DISSOLVED SOLIDS	705		650	mg/L	92.2	
LA01	Q843587		DISSOLVED SOLIDS			-7	mg/L		

Run: R349835 Analyst.: K FULLMER Run Date...: 04-JUN-98
ANALYTICAL Reviewer: B SHRAKE Review Date: 08-JUN-98

BLA01	Q844213		DISSOLVED SOLIDS			-7	mg/L		
LCS01	Q844214		DISSOLVED SOLIDS	619		627	mg/L	101.3	
SAMPLE	A443936		See Cert. of Analysis, Rep: 0						
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						
DUP01	Q844215	A443938	DISSOLVED SOLIDS	540		550	mg/L		1.8
SAMPLE	A443939		See Cert. of Analysis, Rep: 0						
SAMPLE	A443940		See Cert. of Analysis, Rep: 0						
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						
DUP01	Q844217	A443940	DISSOLVED SOLIDS	880		890	mg/L		1.1
SPI01	Q844218	A444058	DISSOLVED SOLIDS	295	310	612	mg/L	102.3	
DPS01	Q844219	A444058	DISSOLVED SOLIDS	295	310	604	mg/L	99.7	2.6
LCS01	Q844229		DISSOLVED SOLIDS	663		655	mg/L	98.8	
BLA01	Q844230		DISSOLVED SOLIDS			2	mg/L		

TOTAL SUSPENDED SOLIDS EPA 160.2 G403.7

Run: R349433 Analyst.: A KEYS Run Date...: 29-MAY-98
ANALYTICAL Reviewer: B SHRAKE Review Date: 01-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q841156		SUSPENDED SOLIDS			-5	mg/L		
CS01	Q841157		SUSPENDED SOLIDS	296		298	mg/L	100.7	
SPI01	Q841159	A443486	SUSPENDED SOLIDS	2	148	153	mg/L	102	
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
DUP01	Q841160	A443498	SUSPENDED SOLIDS	26		30	mg/L		14.3
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
LCS01	Q841162		SUSPENDED SOLIDS	296		299	mg/L	101	
BLA01	Q841163		SUSPENDED SOLIDS			0	mg/L		

Run: R349562 Analyst.: A KEYS Run Date...: 01-JUN-98
ANALYTICAL Reviewer: K FULLMER Review Date: 03-JUN-98

BLA01	Q842235		SUSPENDED SOLIDS			-1	mg/L		
LCS01	Q842236		SUSPENDED SOLIDS	296		309	mg/L	104.4	
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
DUP01	Q842237	A443500	SUSPENDED SOLIDS	6		16	mg/L		90.9
SPI01	Q842240	A443936	SUSPENDED SOLIDS	2	148	167	mg/L	111.5	
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						
LCS01	Q842241		SUSPENDED SOLIDS	296		306	mg/L	103.4	
BLA01	Q842242		SUSPENDED SOLIDS			0	mg/L		

Run: R349751 Analyst.: K FULLMER Run Date...: 04-JUN-98
ANALYTICAL Reviewer: B SHRAKE Review Date: 05-JUN-98

BLA01	Q843554		SUSPENDED SOLIDS			0	mg/L		
LCS01	Q843555		SUSPENDED SOLIDS	322		312	mg/L	96.9	
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						
DUP01	Q843556	A443941	SUSPENDED SOLIDS	24		25	mg/L		4.1
SPI01	Q843557	A443998	SUSPENDED SOLIDS	8	161	173	mg/L	102.5	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
DPS01	Q843567	A444562	SUSPENDED SOLIDS	2	161	161	mg/L	98.8	2.6
'S01	Q843568		SUSPENDED SOLIDS	322		313	mg/L	97.2	
BLA01	Q843569		SUSPENDED SOLIDS			1	mg/L		

Run: R349752 Analyst.: K FULLMER Run Date...: 03-JUN-98
ANALYTICAL Reviewer: B SHRAKE Review Date: 05-JUN-98

BLA01	Q843570		SUSPENDED SOLIDS			-1	mg/L		
LCS01	Q843571		SUSPENDED SOLIDS	127		131	mg/L	103.1	
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
SPI01	Q843572	A443678	SUSPENDED SOLIDS	11	64	74	mg/L	98.4	
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
DUP01	Q843573	A443679	SUSPENDED SOLIDS	34		39	mg/L		13.7
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
SAMPLE	A443683		See Cert. of Analysis, Rep: 0						
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
SAMPLE	A443686		See Cert. of Analysis, Rep: 0						
LCS01	Q843574		SUSPENDED SOLIDS	127		126	mg/L	99.2	
BLA01	Q843575		SUSPENDED SOLIDS			-1	mg/L		

Comments

Q842237 Sample exhibits poor replicability. Sample and duplicate analyzed twice.

FIELD TURBIDITY EPA 180.1 G602.0

Run: R349555 Analyst.: C WRIN Run Date...: 26-MAY-98 Instrument: FIELD
ANALYTICAL Reviewer: Review Date: 03-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
SAMPLE	A443683		See Cert. of Analysis, Rep: 0						
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
SAMPLE	A443686		See Cert. of Analysis, Rep: 0						
SAMPLE	A443936		See Cert. of Analysis, Rep: 0						
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						
SAMPLE	A443939		See Cert. of Analysis, Rep: 0						
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						
SAMPLE	A443940		See Cert. of Analysis, Rep: 0						

HERITAGE ENVIRONMENTAL SERVICES, LLC

FIELD TEMPERATURE EPA 170.1 G603.0

Run: R349555 Analyst.: C WRIN Run Date...: 26-MAY-98 Instrument: FIELD
ANALYTICAL Reviewer: Review Date: 03-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
SAMPLE	A443683		See Cert. of Analysis, Rep: 0						
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
SAMPLE	A443686		See Cert. of Analysis, Rep: 0						
SAMPLE	A443936		See Cert. of Analysis, Rep: 0						
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						
SAMPLE	A443939		See Cert. of Analysis, Rep: 0						
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						
SAMPLE	A443940		See Cert. of Analysis, Rep: 0						

FIELD SPECIFIC CONDUCTANCE SW846-9050 G604.0

Run: R349555 Analyst.: C WRIN Run Date...: 26-MAY-98 Instrument: FIELD
ANALYTICAL Reviewer: Review Date: 03-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
SAMPLE	A443683		See Cert. of Analysis, Rep: 0						
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
SAMPLE	A443686		See Cert. of Analysis, Rep: 0						
SAMPLE	A443936		See Cert. of Analysis, Rep: 0						
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						
SAMPLE	A443939		See Cert. of Analysis, Rep: 0						
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						
SAMPLE	A443940		See Cert. of Analysis, Rep: 0						

HERITAGE ENVIRONMENTAL SERVICES, LLC

FIELD OXIDATION-REDUCTION POTENTIAL SM2580B-18TH ED G604.7

Run: R349555 Analyst.: C WRIN Run Date...: 26-MAY-98 Instrument: FIELD
ANALYTICAL Reviewer: Review Date: 03-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
SAMPLE	A443683		See Cert. of Analysis, Rep: 0						
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
SAMPLE	A443686		See Cert. of Analysis, Rep: 0						
SAMPLE	A443936		See Cert. of Analysis, Rep: 0						
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						
SAMPLE	A443939		See Cert. of Analysis, Rep: 0						
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						
SAMPLE	A443940		See Cert. of Analysis, Rep: 0						

ALKALINITY TOTAL EPA 310.1 G605.2

Run: R349592 Analyst.: T DRIGGERS Run Date...: 01-JUN-98
ANALYTICAL Reviewer: B SHRAKE Review Date: 03-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LFB01	Q842537		ALKALINITY	30.3		30	mg/L	99	
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
CCV	Q842538		ALKALINITY	125		100	mg/L	80	
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
CCV	Q842541		ALKALINITY	125		110	mg/L	88	
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						
DUP01	Q842542	A443684	ALKALINITY	440		440	mg/L		0
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
DUP01	Q842543	A443685	ALKALINITY	570		570	mg/L		0
SAMPLE	A443686		See Cert. of Analysis, Rep: 0						
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						
CCV	Q842544		ALKALINITY	125		110	mg/L	88	
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						
V	Q842549		ALKALINITY	125		110	mg/L	88	

HERITAGE ENVIRONMENTAL SERVICES, LLC

FIELD PH (AQUEOUS) SW846-9040B G607.0

Run: R349555 Analyst.: C WRIN Run Date...: 26-MAY-98 Instrument: FIELD
ANALYTICAL Reviewer: Review Date: 03-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
SAMPLE	A443683		See Cert. of Analysis, Rep: 0						
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
SAMPLE	A443686		See Cert. of Analysis, Rep: 0						
SAMPLE	A443936		See Cert. of Analysis, Rep: 0						
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						
SAMPLE	A443939		See Cert. of Analysis, Rep: 0						
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						
SAMPLE	A443940		See Cert. of Analysis, Rep: 0						

ALKALINITY (BICARBONATE) EPA 310.1 G610.2

Run: R349592 Analyst.: T DRIGGERS Run Date...: 01-JUN-98
ANALYTICAL Reviewer: B SHRAKE Review Date: 03-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LFB01	Q842537		ALKALINITY	30.3		30	mg/L	99	
CCV	Q842538		ALKALINITY	125		100	mg/L	80	
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						
DUP01	Q842557	A443684	ALKALINITY	440		440	mg/L		0
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
DUP01	Q842559	A443685	ALKALINITY	570		570	mg/L		0
DUP01	Q842560	A443685	ALKALINITY	0		BDL	mg/L		
SAMPLE	A443686		See Cert. of Analysis, Rep: 0						
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						

HERITAGE ENVIRONMENTAL SERVICES, LLC

ALKALINITY (CARBONATE) EPA 310.1 — G611.2

Run: R349592 Analyst.: T DRIGGERS Run Date...: 01-JUN-98
ANALYTICAL Reviewer: B SHRAKE Review Date: 03-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
LFB01	Q842537		ALKALINITY	30.3		30	mg/L	99	
CCV	Q842538		ALKALINITY	125		100	mg/L	80	
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						
DUP01	Q842557	A443684	ALKALINITY	440		440	mg/L		0
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
DUP01	Q842559	A443685	ALKALINITY	570		570	mg/L		0
DUP01	Q842560	A443685	ALKALINITY	0		BDL	mg/L		
SAMPLE	A443686		See Cert. of Analysis, Rep: 0						
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						

ARSENIC TRACE ICP SW846-6010B — M103.0

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R349488 Analyst.: E BERTRAM Run Date...: 03-JUN-98
PREP Reviewer: D CZERNY Review Date: 04-JUN-98

QC Type	Lab ID	Source	Anal Run
SAMPLE	A443682	Rep: 0	R350312
LCS	Q842033	INORGAN	R350312
BLA02	Q842035	NA	R350312
SPI02	Q842037	A443678	R350312
DPS02	Q842038	A443678	R350312

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOU SW846-3005A

Run: R349492 Analyst.: E BERTRAM Run Date...: 03-JUN-98
PREP Reviewer: D CZERNY Review Date: 04-JUN-98

SAMPLE	A443683	Rep: 1	R350312
LCS	Q842071	INORGAN	R350312
BLA02	Q842072	NA	R350312
SPI02	Q842073	A443678	R350312
DPS02	Q842074	A443678	R350312

Run: R349770 Analyst.: E BERTRAM Run Date...: 08-JUN-98
PREP Reviewer: W WATNESS Review Date: 09-JUN-98

SAMPLE	A443936	Rep: 1	R350312
SAMPLE	A443939	Rep: 1	R350312
SAMPLE	A443940	Rep: 1	R350312
LCS	Q843992	INORGAN	R350312
LA02	Q843993	NA	R350312

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Anal Run
SPI02	Q843994	A443936	R350312
DPS02	Q843995	A443936	R350312

Run: R350708 Analyst.: P MASTERS Run Date...: 21-JUN-98
PREP Reviewer: W WATNESS Review Date: 22-JUN-98

SAMPLE	A443682	Rep: 1	R350935
LCS	Q850584	INORGAN	R350935
BLA02	Q850585	NA	R350935
SPI02	Q850586	A443682	R350935
DPS02	Q850587	A443682	R350935

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R350312 Analyst.: A STOCKBURGER Run Date...: 12-JUN-98 Instrument: TRACE ICP
ANALYTICAL Reviewer: S O'NEAL Review Date: 15-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q847965	NA	ARSENIC			0.00289	mg/L		
ICV01	Q847966	PERKIN-	ARSENIC	0.05		0.0535	mg/L	107	
CCV	Q847967	INORGAN	ARSENIC	0.1		0.100	mg/L	100	
ICV01	Q847969	PERKIN-	ARSENIC	0.05		0.0486	mg/L	97	
ICV01	Q847972	PERKIN-	ARSENIC	0.05		0.0505	mg/L	101	
CDL01	Q847975	PERKIN-	ARSENIC	0.02		0.0226	mg/L	113	
ICS-A	Q847978	PERKIN	ARSENIC	0.1		0.0950	mg/L	95	
BLA02	Q842035	NA	ARSENIC			0.00219	mg/L		
LCS	Q842033	INORGAN	ARSENIC	0.5		0.518	mg/L	104	
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
SPI02	Q842037	A443678	ARSENIC	0.00531	2	2.22	mg/L	111	
DPS02	Q842038	A443678	ARSENIC	0.00531	2	2.21	mg/L	110	1
CCV	Q847987	INORGAN	ARSENIC	0.1		0.100	mg/L	100	
A01	Q847988	NA	ARSENIC			< 0.00200	mg/L		
L01	Q848005	PERKIN-	ARSENIC	0.02		0.0233	mg/L	117	
ICS-A	Q848008	PERKIN	ARSENIC	0.1		0.106	mg/L	106	

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOU SW846-3005A

Run: R350312 Analyst.: A STOCKBURGER Run Date...: 12-JUN-98 Instrument: TRACE ICP
ANALYTICAL Reviewer: S O'NEAL Review Date: 15-JUN-98

BLA01	Q847965	NA	ARSENIC			0.00289	mg/L		
ICV01	Q847966	PERKIN-	ARSENIC	0.05		0.0535	mg/L	107	
CCV	Q847967	INORGAN	ARSENIC	0.1		0.100	mg/L	100	
ICV01	Q847969	PERKIN-	ARSENIC	0.05		0.0486	mg/L	97	
ICV01	Q847972	PERKIN-	ARSENIC	0.05		0.0505	mg/L	101	
CDL01	Q847975	PERKIN-	ARSENIC	0.02		0.0226	mg/L	113	
ICS-A	Q847978	PERKIN	ARSENIC	0.1		0.0950	mg/L	95	
BLA02	Q842072	NA	ARSENIC			0.0129	mg/L		
LCS	Q842071	INORGAN	ARSENIC	0.5		0.517	mg/L	103	
SPI02	Q842073	A443678	ARSENIC	0	0.5	0.5239	mg/L	104.8	
DPS02	Q842074	A443678	ARSENIC	0	0.5	0.5131	mg/L	102.6	2.1
SAMPLE	A443683		See Cert. of Analysis, Rep: 1						
CCV	Q847985	INORGAN	ARSENIC	0.1		0.104	mg/L	104	
BLA01	Q847986	NA	ARSENIC			0.00308	mg/L		
BLA02	Q843993	NA	ARSENIC			0.00280	mg/L		
LCS	Q843992	INORGAN	ARSENIC	0.5		0.528	mg/L	106	
SAMPLE	A443936		See Cert. of Analysis, Rep: 1						
SPI02	Q843994	A443936	ARSENIC	0	2	2.02	mg/L	101	
DPS02	Q843995	A443936	ARSENIC	0	2	2.07	mg/L	104	2
/	Q847989	INORGAN	ARSENIC	0.1		0.102	mg/L	102	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q847990	NA	ARSENIC			0.00443	mg/L		
AMPLE	A443939		See Cert. of Analysis, Rep: 1						
AMPLE	A443940		See Cert. of Analysis, Rep: 1						
CCV	Q847991	INORGAN	ARSENIC	0.1		0.102	mg/L	102	
BLA01	Q847992	NA	ARSENIC			0.00402	mg/L		
CDL01	Q848005	PERKIN-	ARSENIC	0.02		0.0233	mg/L	117	
ICS-A	Q848008	PERKIN	ARSENIC	0.1		0.106	mg/L	106	

Run: R350935 Analyst.: G MAPP Run Date...: 22-JUN-98 Instrument: TRACE ICP
ANALYTICAL Reviewer: S O'NEAL Review Date: 24-JUN-98

CCV	Q852182	INORGAN	ARSENIC	0.1		0.102	mg/L	102	
BLA01	Q852183	NA	ARSENIC			< 0.00200	mg/L		
ICV01	Q852184	PERKIN-	ARSENIC	0.05		0.0458	mg/L	92	
CDL01	Q852187	PERKIN-	ARSENIC	0.02		0.0192	mg/L	96	
ICS-A	Q852190	PERKIN	ARSENIC	0.1		0.0958	mg/L	96	
BLA02	Q850585	NA	ARSENIC			< 0.00200	mg/L		
LCS	Q850584	INORGAN	ARSENIC	0.5		0.539	mg/L	108	
SAMPLE	A443682		See Cert. of Analysis, Rep: 1						
SPI02	Q850586	A443682	ARSENIC	0.0830	2	2.14	mg/L	103	
DPS02	Q850587	A443682	ARSENIC	0.0830	2	2.12	mg/L	102	1
CCV	Q852208	INORGAN	ARSENIC	0.1		0.102	mg/L	102	
BLA01	Q852209	NA	ARSENIC			< 0.00200	mg/L		
CDL01	Q852232	PERKIN-	ARSENIC	0.02		0.0174	mg/L	87	
ICS-A	Q852234	PERKIN	ARSENIC	0.1		0.0943	mg/L	94	

Comments

Q842072 samples for As are BDL
Q847978 Samples that are BDL for Se will be taken.

CADMIUM TRACE ICP SW846-6010B M108.0

Prep: FAA OR ICP ACID DIGESTION (DISSOLVED METALS) AQUEOU SW846-3005A

Run: R349411 Analyst.: E BERTRAM Run Date...: 02-JUN-98
PREP Reviewer: D CZERNY Review Date: 04-JUN-98

QC Type	Lab ID	Source	Anal Run
SAMPLE	A443497	Rep: 1	R350663
SAMPLE	A443496	Rep: 1	R350663
SAMPLE	A443498	Rep: 1	R350663
SAMPLE	A443499	Rep: 1	R350663
SAMPLE	A443500	Rep: 1	R350663
LCS	Q841151	INORGAN	R350663
BLA02	Q841152	NA	R350663
SPI02	Q841153	A443497	R350663
DPS02	Q841154	A443497	R350663

Run: R349492 Analyst.: E BERTRAM Run Date...: 03-JUN-98
PREP Reviewer: D CZERNY Review Date: 04-JUN-98

SAMPLE	A443678	Rep: 1	R350312
SAMPLE	A443679	Rep: 1	R350312
SAMPLE	A443680	Rep: 1	R350312
SAMPLE	A443681	Rep: 1	R350312
SAMPLE	A443682	Rep: 1	R350935
SAMPLE	A443684	Rep: 1	R350312
SAMPLE	A443685	Rep: 1	R350312
AMPLE	A443686	Rep: 1	R350312

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Anal Run
LCS	Q842071	INORGAN	R350312
A02	Q842072	NA	R350312
SPI02	Q842073	A443678	R350312
DPS02	Q842074	A443678	R350312

Run: R349770 Analyst.: E BERTRAM Run Date...: 08-JUN-98
PREP Reviewer: W WATNESS Review Date: 09-JUN-98

SAMPLE	A443937	Rep: 1	R350312
SAMPLE	A443938	Rep: 1	R350312
SAMPLE	A443941	Rep: 1	R350312
SAMPLE	A443942	Rep: 1	R350312
LCS	Q843992	INORGAN	R350312
BLA02	Q843993	NA	R350312
SPI02	Q843994	A443936	R350312
DPS02	Q843995	A443936	R350312

Run: R350312 Analyst.: A STOCKBURGER Run Date...: 12-JUN-98 Instrument: TRACE ICP
ANALYTICAL Reviewer: S O'NEAL Review Date: 15-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q847965	NA	CADMIUM			< 0.000400	mg/L		
ICV01	Q847966	PERKIN-	CADMIUM	0.05		0.0512	mg/L	102	
CCV	Q847967	INORGAN	CADMIUM	0.1		0.103	mg/L	103	
ICV01	Q847969	PERKIN-	CADMIUM	0.05		0.0511	mg/L	102	
ICV01	Q847972	PERKIN-	CADMIUM	0.05		0.0513	mg/L	103	
CDL01	Q847975	PERKIN-	CADMIUM	0.01		0.0106	mg/L	106	
ICS-A	Q847978	PERKIN	CADMIUM	1		0.951	mg/L	95	
BLA02	Q842072	NA	CADMIUM			0.000790	mg/L		
LCS	Q842071	INORGAN	CADMIUM	0.5		0.531	mg/L	106	
SAMPLE	A443678		See Cert. of Analysis, Rep: 1						
SPI02	Q842073	A443678	CADMIUM	0	0.5	0.54	mg/L	108	
DPS02	Q842074	A443678	CADMIUM	0	0.5	0.522	mg/L	104.4	3.4
CCV	Q847983	INORGAN	CADMIUM	0.1		0.105	mg/L	105	
BLA01	Q847984	NA	CADMIUM			< 0.000400	mg/L		
SAMPLE	A443679		See Cert. of Analysis, Rep: 1						
SAMPLE	A443680		See Cert. of Analysis, Rep: 1						
SAMPLE	A443681		See Cert. of Analysis, Rep: 1						
SAMPLE	A443684		See Cert. of Analysis, Rep: 1						
SAMPLE	A443685		See Cert. of Analysis, Rep: 1						
SAMPLE	A443686		See Cert. of Analysis, Rep: 1						
CCV	Q847985	INORGAN	CADMIUM	0.1		0.105	mg/L	105	
BLA01	Q847986	NA	CADMIUM			< 0.000400	mg/L		
BLA02	Q843993	NA	CADMIUM			< 0.000400	mg/L		
LCS	Q843992	INORGAN	CADMIUM	0.5		0.538	mg/L	108	
SPI02	Q843994	A443936	CADMIUM	0	0.05	0.0474	mg/L	95	
DPS02	Q843995	A443936	CADMIUM	0	0.05	0.0484	mg/L	97	2
SAMPLE	A443937		See Cert. of Analysis, Rep: 1						
SAMPLE	A443938		See Cert. of Analysis, Rep: 1						
SAMPLE	A443941		See Cert. of Analysis, Rep: 1						
SAMPLE	A443942		See Cert. of Analysis, Rep: 1						
CCV	Q847991	INORGAN	CADMIUM	0.1		0.104	mg/L	104	
BLA01	Q847992	NA	CADMIUM			< 0.000400	mg/L		
CDL01	Q848005	PERKIN-	CADMIUM	0.01		0.0109	mg/L	109	
ICS-A	Q848008	PERKIN	CADMIUM	1		0.961	mg/L	96	

HERITAGE ENVIRONMENTAL SERVICES, LLC

Run: R350663 Analyst.: G MAPP Run Date...: 17-JUN-98 Instrument: TRACE ICP
ANALYTICAL Reviewer: S O'NEAL Review Date: 19-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q850277	INORGAN	CADMIUM	0.1		0.104	mg/L	104	
BLA01	Q850278	NA	CADMIUM			< 0.000400	mg/L		
ICV01	Q850279	PERKIN-	CADMIUM	0.05		0.0508	mg/L	102	
CDL01	Q850282	PERKIN-	CADMIUM	0.01		0.00997	mg/L	100	
ICS-A	Q850285	PERKIN	CADMIUM	1		0.929	mg/L	93	
BLA02	Q841152	NA	CADMIUM			< 0.000400	mg/L		
LCS	Q841151	INORGAN	CADMIUM	0.5		0.538	mg/L	108	
SAMPLE	A443497		See Cert. of Analysis, Rep: 1						
SPI02	Q841153	A443497	CADMIUM	0	0.05	0.0545	mg/L	109	
DPS02	Q841154	A443497	CADMIUM	0	0.05	0.0533	mg/L	107	2
SAMPLE	A443496		See Cert. of Analysis, Rep: 1						
SAMPLE	A443498		See Cert. of Analysis, Rep: 1						
CCV	Q850300	INORGAN	CADMIUM	0.1		0.105	mg/L	105	
BLA01	Q850301	NA	CADMIUM			< 0.000400	mg/L		
SAMPLE	A443499		See Cert. of Analysis, Rep: 1						
SAMPLE	A443500		See Cert. of Analysis, Rep: 1						
CCV	Q850302	INORGAN	CADMIUM	0.1		0.107	mg/L	107	
BLA01	Q850303	NA	CADMIUM			< 0.000400	mg/L		
CDL01	Q850308	PERKIN-	CADMIUM	0.01		0.0107	mg/L	107	
ICS-A	Q850310	PERKIN	CADMIUM	1		0.961	mg/L	96	

Run: R350935 Analyst.: G MAPP Run Date...: 22-JUN-98 Instrument: TRACE ICP
ANALYTICAL Reviewer: S O'NEAL Review Date: 24-JUN-98

CCV	Q852182	INORGAN	CADMIUM	0.1		0.108	mg/L	108	
BLA01	Q852183	NA	CADMIUM			< 0.000400	mg/L		
ICV01	Q852184	PERKIN-	CADMIUM	0.05		0.0525	mg/L	105	
CDL01	Q852187	PERKIN-	CADMIUM	0.01		0.0105	mg/L	105	
ICS-A	Q852190	PERKIN	CADMIUM	1		0.938	mg/L	94	
SAMPLE	A443682		See Cert. of Analysis, Rep: 1						
CCV	Q852208	INORGAN	CADMIUM	0.1		0.104	mg/L	104	
BLA01	Q852209	NA	CADMIUM			< 0.000400	mg/L		
CDL01	Q852232	PERKIN-	CADMIUM	0.01		0.0101	mg/L	101	
ICS-A	Q852234	PERKIN	CADMIUM	1		0.917	mg/L	92	

Comments

Q842072 samples for As are BDL
Q847978 Samples that are BDL for Se will be taken.

CALCIUM ICP SW846-6010B M109.3

Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Run: R349480 Analyst.: E BERTRAM Run Date...: 03-JUN-98
PREP Reviewer: D CZERNY Review Date: 04-JUN-98

QC Type	Lab ID	Source	Anal Run
LCS	Q841744	SPEX	R349590
BLA02	Q841746	NA	R349590
SPI02	Q841747	A443497	R349590
DPS02	Q841748	A443497	R349590
SAMPLE	A443497	Rep: 0	R349590
SAMPLE	A443496	Rep: 0	R349590
SAMPLE	A443498	Rep: 0	R349590
SAMPLE	A443499	Rep: 0	R349590

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Anal Run
SAMPLE	A443500	Rep: 0	R349590

Run: R349488 Analyst.: E BERTRAM Run Date...: 03-JUN-98
PREP Reviewer: D CZERNY Review Date: 04-JUN-98

LCS	Q841926	SPEX	R349590
BLA02	Q841927	NA	R349590
SPI02	Q841928	A443678	R349590
DPS02	Q841929	A443678	R349590
SAMPLE	A443678	Rep: 0	R349590
SAMPLE	A443679	Rep: 0	R349590
SAMPLE	A443680	Rep: 0	R349590
SAMPLE	A443681	Rep: 0	R349590
SAMPLE	A443682	Rep: 0	R349590
SAMPLE	A443684	Rep: 0	R349590
SAMPLE	A443685	Rep: 0	R349590
SAMPLE	A443686	Rep: 0	R349590

Run: R349588 Analyst.: E BERTRAM Run Date...: 04-JUN-98
PREP Reviewer: W WATNESS Review Date: 06-JUN-98

LCS	Q843342	SPEX	R349867
BLA02	Q843343	NA	R349867
SPI02	Q843344	A443937	R349867
DPS02	Q843345	A443937	R349867
SAMPLE	A443937	Rep: 0	R349867
SAMPLE	A443938	Rep: 0	R349867
SAMPLE	A443941	Rep: 0	R349867

Run: R349590 Analyst.: A STOCKBURGER Run Date...: 03-JUN-98 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 04-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CV	Q842457	INORGAN	CALCIUM	50.0		49.4	mg/L	99	
BLA01	Q842458	NA	CALCIUM			< 0.0800	mg/L		
ICV01	Q842461	SPEX	CALCIUM	20		21.0	mg/L	105	
ICS-A	Q842465	PERKIN-	CALCIUM	500		496.	mg/L	99	
BLA02	Q841746	NA	CALCIUM			0.0964	mg/L		
LCS	Q841744	SPEX	CALCIUM	100		101.	mg/L	101	
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
SPI02	Q841747	A443497	CALCIUM	74.5	100	183.	mg/L	109	
DPS02	Q841748	A443497	CALCIUM	74.5	100	175	mg/L	100.5	8.1
CCV	Q842490	INORGAN	CALCIUM	50.0		51.0	mg/L	102	
BLA01	Q842491	NA	CALCIUM			< 0.0800	mg/L		
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
CCV	Q842492	INORGAN	CALCIUM	50.0		50.8	mg/L	102	
BLA01	Q842493	NA	CALCIUM			< 0.0800	mg/L		
BLA02	Q841927	NA	CALCIUM			0.0813	mg/L		
LCS	Q841926	SPEX	CALCIUM	100		102.	mg/L	102	
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
SPI02	Q841928	A443678	CALCIUM	83.6	100	188.	mg/L	104	
DPS02	Q841929	A443678	CALCIUM	83.6	100	185.	mg/L	101	3
CCV	Q842494	INORGAN	CALCIUM	50.0		51.1	mg/L	102	
BLA01	Q842495	NA	CALCIUM			< 0.0800	mg/L		
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
SAMPLE	A443686		See Cert. of Analysis, Rep: 0						
CCV	Q842496	INORGAN	CALCIUM	50.0		51.6	mg/L	103	
BLA01	Q842497	NA	CALCIUM			< 0.0800	mg/L		
ICS-A	Q842507	PERKIN-	CALCIUM	500		482.	mg/L	96	

Run: R349867 Analyst.: E MERRILL Run Date...: 08-JUN-98 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 09-JUN-98

CCV	Q844324	INORGAN	CALCIUM	50.0		51.4	mg/L	103	
BLA01	Q844325	NA	CALCIUM			< 0.0800	mg/L		
ICV01	Q844328	SPEX	CALCIUM	20		19.8	mg/L	99	
ICS-A	Q844332	PERKIN	CALCIUM	500		463.	mg/L	93	
BLA02	Q843343	NA	CALCIUM			< 0.0800	mg/L		
LCS	Q843342	SPEX	CALCIUM	100		99.7	mg/L	100	
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SPI02	Q843344	A443937	CALCIUM	72.6	100	187.	mg/L	114	
DPS02	Q843345	A443937	CALCIUM	72.6	100	183.	mg/L	110	3
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						
CCV	Q844340	INORGAN	CALCIUM	50.0		49.9	mg/L	100	
BLA01	Q844341	NA	CALCIUM			< 0.0800	mg/L		
ICS-A	Q844343	PERKIN-	CALCIUM	500		479.	mg/L	96	

Comments

*Q841748 * Spike is NA; Sample concentration is greater than four times the spike concentration. (Fe)*

CHROMIUM ICP SW846-6010B M110.3

Prep: FIELD FILTRATION SAS

Run: R349584 Analyst.: E MERRILL Run Date...: 03-JUN-98 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 04-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q842370	INORGAN	CHROMIUM	5.00		5.03	mg/L	101	
BLA01	Q842371	NA	CHROMIUM			0.00467	mg/L		
ICV01	Q842372	PERKIN	CHROMIUM	1		1.05	mg/L	105	
CDL01	Q842376	PERKIN	CHROMIUM	0.020		0.0222	mg/L	111	
ICS-A	Q842379	PERKIN	CHROMIUM	0.500		0.453	mg/L	91	
SAMPLE	A443496		See Cert. of Analysis, Rep: 1						
SPI01	Q842383	A443496	CHROMIUM	0	0.200	0.210	mg/L	105	
DPS01	Q842422	A443496	CHROMIUM	0	0.2	0.212	mg/L	106	1
CCV	Q842384	INORGAN	CHROMIUM	5.00		4.98	mg/L	100	
BLA01	Q842385	NA	CHROMIUM			< 0.00400	mg/L		
SAMPLE	A443497		See Cert. of Analysis, Rep: 1						
SAMPLE	A443498		See Cert. of Analysis, Rep: 1						
SAMPLE	A443499		See Cert. of Analysis, Rep: 1						
SAMPLE	A443500		See Cert. of Analysis, Rep: 1						
CCV	Q842386	INORGAN	CHROMIUM	5.00		4.98	mg/L	100	
BLA01	Q842387	NA	CHROMIUM			0.00511	mg/L		
SAMPLE	A443678		See Cert. of Analysis, Rep: 1						
SPI01	Q842393	A443678	CHROMIUM	0	0.200	0.205	mg/L	103	
DPS01	Q842424	A443678	CHROMIUM	0	0.2	0.209	mg/L	105	1

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q842394	INORGAN	CHROMIUM	5.00		4.92	mg/L	98	
BLA01	Q842395	NA	CHROMIUM			< 0.00400	mg/L		
SAMPLE	A443679		See Cert. of Analysis, Rep: 1						
SAMPLE	A443680		See Cert. of Analysis, Rep: 1						
SAMPLE	A443681		See Cert. of Analysis, Rep: 1						
SAMPLE	A443682		See Cert. of Analysis, Rep: 1						
SAMPLE	A443684		See Cert. of Analysis, Rep: 1						
SAMPLE	A443685		See Cert. of Analysis, Rep: 1						
SAMPLE	A443686		See Cert. of Analysis, Rep: 1						
CCV	Q842396	INORGAN	CHROMIUM	5.00		4.83	mg/L	97	
BLA01	Q842397	NA	CHROMIUM			0.00418	mg/L		
SPI01	Q842404	A443936	CHROMIUM	0	0.200	0.206	mg/L	103	
DPS01	Q842426	A443936	CHROMIUM	0	0.2	0.204	mg/L	102	1
SAMPLE	A443937		See Cert. of Analysis, Rep: 1						
SAMPLE	A443938		See Cert. of Analysis, Rep: 1						
SAMPLE	A443941		See Cert. of Analysis, Rep: 1						
SAMPLE	A443942		See Cert. of Analysis, Rep: 1						
CCV	Q842407	INORGAN	CHROMIUM	5.00		4.79	mg/L	96	
BLA01	Q842408	NA	CHROMIUM			< 0.00400	mg/L		
CDL01	Q842415	PERKIN	CHROMIUM	0.020		0.0230	mg/L	115	
ICS-A	Q842417	PERKIN	CHROMIUM	0.500		0.444	mg/L	89	

COPPER ICP SW846-6010B M112.3

Prep: FIELD FILTRATION SAS

Run: R349584 Analyst.: E MERRILL Run Date...: 03-JUN-98 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 04-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q842370	INORGAN	COPPER	5.00		4.99	mg/L	100	
BLA01	Q842371	NA	COPPER			< 0.00800	mg/L		
ICV01	Q842372	PERKIN	COPPER	1		1.02	mg/L	102	
CDL01	Q842376	PERKIN	COPPER	0.050		0.0520	mg/L	104	
ICS-A	Q842379	PERKIN	COPPER	0.500		0.488	mg/L	98	
SAMPLE	A443496		See Cert. of Analysis, Rep: 1						
SPI01	Q842383	A443496	COPPER	0	0.25	0.254	mg/L	102	
DPS01	Q842422	A443496	COPPER	0	0.25	0.258	mg/L	103	1
CCV	Q842384	INORGAN	COPPER	5.00		4.95	mg/L	99	
BLA01	Q842385	NA	COPPER			< 0.00800	mg/L		
SAMPLE	A443497		See Cert. of Analysis, Rep: 1						
SAMPLE	A443498		See Cert. of Analysis, Rep: 1						
SAMPLE	A443499		See Cert. of Analysis, Rep: 1						
SAMPLE	A443500		See Cert. of Analysis, Rep: 1						
CCV	Q842386	INORGAN	COPPER	5.00		4.91	mg/L	98	
BLA01	Q842387	NA	COPPER			< 0.00800	mg/L		
SAMPLE	A443678		See Cert. of Analysis, Rep: 1						
SPI01	Q842393	A443678	COPPER	0	0.25	0.258	mg/L	103	
DPS01	Q842424	A443678	COPPER	0	0.25	0.260	mg/L	104	1
CCV	Q842394	INORGAN	COPPER	5.00		4.98	mg/L	100	
BLA01	Q842395	NA	COPPER			< 0.00800	mg/L		
SAMPLE	A443679		See Cert. of Analysis, Rep: 1						
SAMPLE	A443680		See Cert. of Analysis, Rep: 1						
SAMPLE	A443681		See Cert. of Analysis, Rep: 1						
MPLE	A443682		See Cert. of Analysis, Rep: 1						

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A443684		See Cert. of Analysis, Rep: 1						
SAMPLE	A443685		See Cert. of Analysis, Rep: 1						
SAMPLE	A443686		See Cert. of Analysis, Rep: 1						
CCV	Q842396	INORGAN	COPPER	5.00		4.89	mg/L	98	
BLA01	Q842397	NA	COPPER			< 0.00800	mg/L		
SPI01	Q842404	A443936	COPPER	0	0.25	0.259	mg/L	104	
DPS01	Q842426	A443936	COPPER	0	0.25	0.258	mg/L	103	1
SAMPLE	A443937		See Cert. of Analysis, Rep: 1						
SAMPLE	A443938		See Cert. of Analysis, Rep: 1						
SAMPLE	A443941		See Cert. of Analysis, Rep: 1						
SAMPLE	A443942		See Cert. of Analysis, Rep: 1						
CCV	Q842407	INORGAN	COPPER	5.00		4.82	mg/L	96	
BLA01	Q842408	NA	COPPER			< 0.00800	mg/L		
CDL01	Q842415	PERKIN	COPPER	0.050		0.0511	mg/L	102	
ICS-A	Q842417	PERKIN	COPPER	0.500		0.480	mg/L	96	

IRON ICP SW846-6010B M115.3

Prep: FIELD FILTRATION SAS

Run: R349584 Analyst.: E MERRILL Run Date...: 03-JUN-98 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 04-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q842370	INORGAN	IRON	5.00		4.98	mg/L	100	
BLA01	Q842371	NA	IRON			< 0.0100	mg/L		
ICV01	Q842372	PERKIN	IRON	1		1.04	mg/L	104	
CDL01	Q842378	INORGAN	IRON	10		10.1	mg/L	101	
ICS-A	Q842379	PERKIN	IRON	200		178.	mg/L	89	
SAMPLE	A443496		See Cert. of Analysis, Rep: 1						
SPI01	Q842383	A443496	IRON	1.87	1.00	2.70	mg/L	83	
DPS01	Q842422	A443496	IRON	1.87	1	2.73	mg/L	86	4
CCV	Q842384	INORGAN	IRON	5.00		4.96	mg/L	99	
BLA01	Q842385	NA	IRON			< 0.0100	mg/L		
SAMPLE	A443497		See Cert. of Analysis, Rep: 1						
SAMPLE	A443498		See Cert. of Analysis, Rep: 1						
SAMPLE	A443499		See Cert. of Analysis, Rep: 1						
SAMPLE	A443500		See Cert. of Analysis, Rep: 1						
CCV	Q842386	INORGAN	IRON	5.00		4.96	mg/L	99	
BLA01	Q842387	NA	IRON			< 0.0100	mg/L		
SAMPLE	A443678		See Cert. of Analysis, Rep: 1						
SPI01	Q842393	A443678	IRON	0	1.00	0.960	mg/L	96	
DPS01	Q842424	A443678	IRON	0	1	0.964	mg/L	96	0
CCV	Q842394	INORGAN	IRON	5.00		4.93	mg/L	99	
BLA01	Q842395	NA	IRON			< 0.0100	mg/L		
SAMPLE	A443679		See Cert. of Analysis, Rep: 1						
SAMPLE	A443680		See Cert. of Analysis, Rep: 1						
SAMPLE	A443681		See Cert. of Analysis, Rep: 1						
SAMPLE	A443682		See Cert. of Analysis, Rep: 1						
SAMPLE	A443683		See Cert. of Analysis, Rep: 1						
SAMPLE	A443684		See Cert. of Analysis, Rep: 1						
SAMPLE	A443685		See Cert. of Analysis, Rep: 1						
SAMPLE	A443686		See Cert. of Analysis, Rep: 1						
CCV	Q842396	INORGAN	IRON	5.00		4.84	mg/L	97	
BLA01	Q842397	NA	IRON			< 0.0100	mg/L		

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A443936		See Cert. of Analysis, Rep: 1						
SPI01	Q842404	A443936	IRON	0.0289	1.00	0.960	mg/L	93	
DPS01	Q842426	A443936	IRON	0.0289	1	0.964	mg/L	94	1
CCV	Q842405	INORGAN	IRON	5.00		5.00	mg/L	100	
BLA01	Q842406	NA	IRON			< 0.0100	mg/L		
SAMPLE	A443937		See Cert. of Analysis, Rep: 1						
SAMPLE	A443938		See Cert. of Analysis, Rep: 1						
SAMPLE	A443939		See Cert. of Analysis, Rep: 1						
SAMPLE	A443940		See Cert. of Analysis, Rep: 1						
SAMPLE	A443941		See Cert. of Analysis, Rep: 1						
SAMPLE	A443942		See Cert. of Analysis, Rep: 1						
CCV	Q842407	INORGAN	IRON	5.00		4.81	mg/L	96	
BLA01	Q842408	NA	IRON			< 0.0100	mg/L		
ICS-A	Q842416	PERKIN-	IRON	200		176.	mg/L	88	

MAGNESIUM ICP SW846-6010B M118.3

Prep: FIELD FILTRATION SAS

Run: R349584 Analyst.: E MERRILL Run Date...: 03-JUN-98 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 04-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q842370	INORGAN	MAGNESIUM	50.0		49.7	mg/L	99	
BLA01	Q842371	NA	MAGNESIUM			< 0.0800	mg/L		
ICV01	Q842374	SPEX	MAGNESIUM	20		19.5	mg/L	98	
ICS-A	Q842379	PERKIN	MAGNESIUM	500		489.	mg/L	98	
SAMPLE	A443496		See Cert. of Analysis, Rep: 1						
SPI01	Q842383	A443496	MAGNESIUM	13.9	100	116.	mg/L	102	
DPS01	Q842422	A443496	MAGNESIUM	13.9	100	117.	mg/L	103	1
CCV	Q842384	INORGAN	MAGNESIUM	50.0		49.6	mg/L	99	
BLA01	Q842385	NA	MAGNESIUM			< 0.0800	mg/L		
SAMPLE	A443497		See Cert. of Analysis, Rep: 1						
SAMPLE	A443498		See Cert. of Analysis, Rep: 1						
SAMPLE	A443499		See Cert. of Analysis, Rep: 1						
SAMPLE	A443500		See Cert. of Analysis, Rep: 1						
CCV	Q842386	INORGAN	MAGNESIUM	50.0		49.4	mg/L	99	
BLA01	Q842387	NA	MAGNESIUM			< 0.0800	mg/L		
SAMPLE	A443678		See Cert. of Analysis, Rep: 1						
SPI01	Q842393	A443678	MAGNESIUM	36.1	100	140.	mg/L	104	
DPS01	Q842424	A443678	MAGNESIUM	36.1	100	141.	mg/L	105	1
CCV	Q842394	INORGAN	MAGNESIUM	50.0		49.5	mg/L	99	
BLA01	Q842395	NA	MAGNESIUM			< 0.0800	mg/L		
SAMPLE	A443679		See Cert. of Analysis, Rep: 1						
SAMPLE	A443680		See Cert. of Analysis, Rep: 1						
SAMPLE	A443681		See Cert. of Analysis, Rep: 1						
SAMPLE	A443682		See Cert. of Analysis, Rep: 1						
SAMPLE	A443684		See Cert. of Analysis, Rep: 1						
SAMPLE	A443685		See Cert. of Analysis, Rep: 1						
SAMPLE	A443686		See Cert. of Analysis, Rep: 1						
CCV	Q842396	INORGAN	MAGNESIUM	50.0		48.8	mg/L	98	
BLA01	Q842397	NA	MAGNESIUM			< 0.0800	mg/L		
SPI01	Q842404	A443936	MAGNESIUM	53.7	100	156.	mg/L	102	
DPS01	Q842426	A443936	MAGNESIUM	53.7	100	157.	mg/L	103	1
SAMPLE	A443937		See Cert. of Analysis, Rep: 1						

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A443938		See Cert. of Analysis, Rep: 1						
SAMPLE	A443941		See Cert. of Analysis, Rep: 1						
SAMPLE	A443942		See Cert. of Analysis, Rep: 1						
CCV	Q842407	INORGAN	MAGNESIUM	50.0		48.3	mg/L	97	
BLA01	Q842408	NA	MAGNESIUM			< 0.0800	mg/L		
ICS-A	Q842416	PERKIN-	MAGNESIUM	500		481.	mg/L	96	

MANGANESE ICP SW846-6010B M119.3

Prep: FIELD FILTRATION SAS

Run: R349584 Analyst.: E MERRILL Run Date...: 03-JUN-98 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 04-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q842370	INORGAN	MANGANESE	5.00		5.04	mg/L	101	
BLA01	Q842371	NA	MANGANESE			< 0.00400	mg/L		
ICV01	Q842372	PERKIN	MANGANESE	1		1.05	mg/L	105	
CDL01	Q842376	PERKIN	MANGANESE	0.030		0.0288	mg/L	96	
ICS-A	Q842379	PERKIN	MANGANESE	0.500		0.452	mg/L	90	
SAMPLE	A443496		See Cert. of Analysis, Rep: 1						
SPI01	Q842383	A443496	MANGANESE	0.392	0.500	0.882	mg/L	98	
DPS01	Q842422	A443496	MANGANESE	0.392	0.5	0.889	mg/L	99	1
CCV	Q842384	INORGAN	MANGANESE	5.00		5.03	mg/L	101	
BLA01	Q842385	NA	MANGANESE			< 0.00400	mg/L		
SAMPLE	A443497		See Cert. of Analysis, Rep: 1						
SAMPLE	A443498		See Cert. of Analysis, Rep: 1						
SAMPLE	A443499		See Cert. of Analysis, Rep: 1						
SAMPLE	A443500		See Cert. of Analysis, Rep: 1						
CCV	Q842386	INORGAN	MANGANESE	5.00		5.03	mg/L	101	
BLA01	Q842387	NA	MANGANESE			< 0.00400	mg/L		
SAMPLE	A443678		See Cert. of Analysis, Rep: 1						
SPI01	Q842393	A443678	MANGANESE	0.130	0.500	0.634	mg/L	101	
DPS01	Q842424	A443678	MANGANESE	0.130	0.5	0.637	mg/L	101	0
CCV	Q842394	INORGAN	MANGANESE	5.00		4.98	mg/L	100	
BLA01	Q842395	NA	MANGANESE			< 0.00400	mg/L		
SAMPLE	A443679		See Cert. of Analysis, Rep: 1						
SAMPLE	A443680		See Cert. of Analysis, Rep: 1						
SAMPLE	A443681		See Cert. of Analysis, Rep: 1						
SAMPLE	A443682		See Cert. of Analysis, Rep: 1						
SAMPLE	A443684		See Cert. of Analysis, Rep: 1						
SAMPLE	A443685		See Cert. of Analysis, Rep: 1						
SAMPLE	A443686		See Cert. of Analysis, Rep: 1						
CCV	Q842396	INORGAN	MANGANESE	5.00		4.90	mg/L	98	
BLA01	Q842397	NA	MANGANESE			< 0.00400	mg/L		
SPI01	Q842404	A443936	MANGANESE	0.348	0.500	0.831	mg/L	97	
DPS01	Q842426	A443936	MANGANESE	0.348	0.5	0.835	mg/L	97	0
SAMPLE	A443937		See Cert. of Analysis, Rep: 1						
SAMPLE	A443938		See Cert. of Analysis, Rep: 1						
SAMPLE	A443941		See Cert. of Analysis, Rep: 1						
SAMPLE	A443942		See Cert. of Analysis, Rep: 1						
CCV	Q842407	INORGAN	MANGANESE	5.00		4.85	mg/L	97	
BLA01	Q842408	NA	MANGANESE			< 0.00400	mg/L		
CDL01	Q842415	PERKIN	MANGANESE	0.030		0.0284	mg/L	95	
ICS-A	Q842417	PERKIN	MANGANESE	0.500		0.450	mg/L	90	

HERITAGE ENVIRONMENTAL SERVICES, LLC

POTASSIUM ICP SW846-6010B — M126.3

Prep: FIELD FILTRATION SAS

Run: R349584 Analyst.: E MERRILL Run Date...: 03-JUN-98 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 04-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q842370	INORGAN	POTASSIUM	50		51.3	mg/L	103	
BLA01	Q842371	NA	POTASSIUM			< 0.0800	mg/L		
ICV01	Q842373	PERKIN	POTASSIUM	10		10.1	mg/L	101	
ICV01	Q842374	SPEX	POTASSIUM	20		20.1	mg/L	101	
SAMPLE	A443496		See Cert. of Analysis, Rep: 1						
SPI01	Q842383	A443496	POTASSIUM	1.37	100	110.	mg/L	109	
DPS01	Q842422	A443496	POTASSIUM	1.37	100	111.	mg/L	110	1
CCV	Q842384	INORGAN	POTASSIUM	50		51.3	mg/L	103	
BLA01	Q842385	NA	POTASSIUM			< 0.0800	mg/L		
SAMPLE	A443497		See Cert. of Analysis, Rep: 1						
SAMPLE	A443498		See Cert. of Analysis, Rep: 1						
SAMPLE	A443499		See Cert. of Analysis, Rep: 1						
SAMPLE	A443500		See Cert. of Analysis, Rep: 1						
CCV	Q842386	INORGAN	POTASSIUM	50		50.9	mg/L	102	
BLA01	Q842387	NA	POTASSIUM			< 0.0800	mg/L		
SAMPLE	A443678		See Cert. of Analysis, Rep: 1						
SPI01	Q842393	A443678	POTASSIUM	0.480	100	112.	mg/L	112	
DPS01	Q842424	A443678	POTASSIUM	0.480	100	113.	mg/L	113	0
CCV	Q842394	INORGAN	POTASSIUM	50		52.0	mg/L	104	
BLA01	Q842395	NA	POTASSIUM			< 0.0800	mg/L		
SAMPLE	A443679		See Cert. of Analysis, Rep: 1						
SAMPLE	A443680		See Cert. of Analysis, Rep: 1						
SAMPLE	A443681		See Cert. of Analysis, Rep: 1						
SAMPLE	A443682		See Cert. of Analysis, Rep: 1						
SAMPLE	A443684		See Cert. of Analysis, Rep: 1						
SAMPLE	A443685		See Cert. of Analysis, Rep: 1						
SAMPLE	A443686		See Cert. of Analysis, Rep: 1						
CCV	Q842396	INORGAN	POTASSIUM	50		51.0	mg/L	102	
BLA01	Q842397	NA	POTASSIUM			< 0.0800	mg/L		
SPI01	Q842404	A443936	POTASSIUM	2.63	100	115.	mg/L	112	
DPS01	Q842426	A443936	POTASSIUM	2.63	100	116.	mg/L	113	1
SAMPLE	A443937		See Cert. of Analysis, Rep: 1						
SAMPLE	A443938		See Cert. of Analysis, Rep: 1						
SAMPLE	A443941		See Cert. of Analysis, Rep: 1						
SAMPLE	A443942		See Cert. of Analysis, Rep: 1						
CCV	Q842407	INORGAN	POTASSIUM	50		50.5	mg/L	101	
BLA01	Q842408	NA	POTASSIUM			< 0.0800	mg/L		

SODIUM ICP SW846-6010B — M131.3

Prep: FIELD FILTRATION SAS

Run: R349584 Analyst.: E MERRILL Run Date...: 03-JUN-98 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 04-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q842370	INORGAN	SODIUM	50		50.9	mg/L	102	
BLA01	Q842371	NA	SODIUM			< 0.0800	mg/L		
ICV01	Q842373	PERKIN	SODIUM	1		1.01	mg/L	101	
ICV01	Q842374	SPEX	SODIUM	20		22	mg/L	110	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A443496		See Cert. of Analysis, Rep: 1						
SPI01	Q842383	A443496	SODIUM	105.	100	203.	mg/L	98	
DPS01	Q842422	A443496	SODIUM	105.	100	205.	mg/L	100	2
CCV	Q842384	INORGAN	SODIUM	50		50.0	mg/L	100	
BLA01	Q842385	NA	SODIUM			< 0.0800	mg/L		
SAMPLE	A443497		See Cert. of Analysis, Rep: 1						
SAMPLE	A443498		See Cert. of Analysis, Rep: 1						
SAMPLE	A443499		See Cert. of Analysis, Rep: 1						
SAMPLE	A443500		See Cert. of Analysis, Rep: 1						
CCV	Q842386	INORGAN	SODIUM	50		49.6	mg/L	99	
BLA01	Q842387	NA	SODIUM			< 0.0800	mg/L		
SAMPLE	A443678		See Cert. of Analysis, Rep: 1						
SPI01	Q842393	A443678	SODIUM	44.7	100	152.	mg/L	107	
DPS01	Q842424	A443678	SODIUM	44.7	100	152.	mg/L	107	0
CCV	Q842394	INORGAN	SODIUM	50		50.7	mg/L	101	
BLA01	Q842395	NA	SODIUM			< 0.0800	mg/L		
SAMPLE	A443679		See Cert. of Analysis, Rep: 1						
SAMPLE	A443680		See Cert. of Analysis, Rep: 1						
SAMPLE	A443681		See Cert. of Analysis, Rep: 1						
SAMPLE	A443682		See Cert. of Analysis, Rep: 1						
SAMPLE	A443684		See Cert. of Analysis, Rep: 1						
SAMPLE	A443685		See Cert. of Analysis, Rep: 1						
SAMPLE	A443686		See Cert. of Analysis, Rep: 1						
CCV	Q842396	INORGAN	SODIUM	50		49.8	mg/L	100	
BLA01	Q842397	NA	SODIUM			< 0.0800	mg/L		
SPI01	Q842404	A443936	SODIUM	50.8	100	156.	mg/L	105	
DPS01	Q842426	A443936	SODIUM	50.8	100	157.	mg/L	106	1
SAMPLE	A443937		See Cert. of Analysis, Rep: 1						
SAMPLE	A443938		See Cert. of Analysis, Rep: 1						
SAMPLE	A443941		See Cert. of Analysis, Rep: 1						
SAMPLE	A443942		See Cert. of Analysis, Rep: 1						
CCV	Q842407	INORGAN	SODIUM	50		49.1	mg/L	98	
BLA01	Q842408	NA	SODIUM			< 0.0800	mg/L		

ZINC ICP SW846-6010B — M139.3

Prep: FIELD FILTRATION SAS

Run: R349584 Analyst.: E MERRILL Run Date...: 03-JUN-98 Instrument: ICP
ANALYTICAL Reviewer: S ENDERSON Review Date: 04-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q842370	INORGAN	ZINC	5.00		5.06	mg/L	101	
BLA01	Q842371	NA	ZINC			< 0.00800	mg/L		
ICV01	Q842372	PERKIN	ZINC	1		1.06	mg/L	106	
CDL01	Q842376	PERKIN	ZINC	0.040		0.0429	mg/L	107	
ICS-A	Q842379	PERKIN	ZINC	1.00		0.961	mg/L	96	
SAMPLE	A443496		See Cert. of Analysis, Rep: 1						
SPI01	Q842383	A443496	ZINC	0	0.500	0.532	mg/L	106	
DPS01	Q842422	A443496	ZINC	0	0.5	0.535	mg/L	107	1
CCV	Q842384	INORGAN	ZINC	5.00		5.06	mg/L	101	
BLA01	Q842385	NA	ZINC			< 0.00800	mg/L		
SAMPLE	A443497		See Cert. of Analysis, Rep: 1						
SAMPLE	A443498		See Cert. of Analysis, Rep: 1						
SAMPLE	A443499		See Cert. of Analysis, Rep: 1						

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SAMPLE	A443500		See Cert. of Analysis, Rep: 1						
CCV	Q842386	INORGAN	ZINC	5.00		5.10	mg/L	102	
BLA01	Q842387	NA	ZINC			< 0.00800	mg/L		
SAMPLE	A443678		See Cert. of Analysis, Rep: 1						
SPI01	Q842393	A443678	ZINC	0	0.500	0.529	mg/L	106	
DPS01	Q842424	A443678	ZINC	0	0.5	0.534	mg/L	107	1
CCV	Q842394	INORGAN	ZINC	5.00		5.02	mg/L	100	
BLA01	Q842395	NA	ZINC			< 0.00800	mg/L		
SAMPLE	A443679		See Cert. of Analysis, Rep: 1						
SAMPLE	A443680		See Cert. of Analysis, Rep: 1						
SAMPLE	A443681		See Cert. of Analysis, Rep: 1						
SAMPLE	A443682		See Cert. of Analysis, Rep: 1						
SAMPLE	A443684		See Cert. of Analysis, Rep: 1						
SAMPLE	A443685		See Cert. of Analysis, Rep: 1						
SAMPLE	A443686		See Cert. of Analysis, Rep: 1						
CCV	Q842396	INORGAN	ZINC	5.00		4.94	mg/L	99	
BLA01	Q842397	NA	ZINC			< 0.00800	mg/L		
SPI01	Q842404	A443936	ZINC	0	0.500	0.535	mg/L	107	
DPS01	Q842426	A443936	ZINC	0	0.5	0.538	mg/L	108	1
SAMPLE	A443937		See Cert. of Analysis, Rep: 1						
SAMPLE	A443938		See Cert. of Analysis, Rep: 1						
SAMPLE	A443941		See Cert. of Analysis, Rep: 1						
SAMPLE	A443942		See Cert. of Analysis, Rep: 1						
CCV	Q842407	INORGAN	ZINC	5.00		4.92	mg/L	98	
BLA01	Q842408	NA	ZINC			< 0.00800	mg/L		
CDL01	Q842415	PERKIN	ZINC	0.040		0.0415	mg/L	104	
ICS-A	Q842417	PERKIN	ZINC	1.00		0.964	mg/L	96	

VOLATILE ORGANICS (CAPILLARY COLUMN) SW846-8260B 0510.6

Run: R349514 Analyst.: H WILLIAMS Run Date...: 01-JUN-98 Instrument: GC/MS VOA
ANALYTICAL Reviewer: A BRADBURN Review Date: 03-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q841715		CHLOROMETHANE	0.1779		0.2093			17.6
CCV	Q841715		VINYL CHLORIDE	0.1978		0.2221			12.2
CCV	Q841715		BROMOMETHANE	0.2233		0.2337			4.6
CCV	Q841715		CHLOROETHANE	0.1346		0.1666			23.7
CCV	Q841715		TRICHLOROFLUOROMETHANE	0.6921		0.8439			21.9
CCV	Q841715		1,1-DICHLOROETHENE	0.3209		0.3247			1.1
CCV	Q841715		DICHLOROMETHANE (METHYLENE CHLORIDE)	0.2503		0.2764			10.4
CCV	Q841715		TRANS-1,2-DICHLOROETHENE	0.3432		0.3763			9.6
CCV	Q841715		1,1-DICHLOROETHANE	0.6402		0.714			11.5
CCV	Q841715		CIS-1,2-DICHLOROETHENE	0.3214		0.3396			5.6
CCV	Q841715		CHLOROFORM	0.8235		0.8913			8.2
CCV	Q841715		1,1,1-TRICHLOROETHANE	0.8752		0.9251			5.7
CCV	Q841715		CARBON TETRACHLORIDE	0.8613		0.9017			4.6
CCV	Q841715		BENZENE	0.8303		0.8087			2.6
CCV	Q841715		1,2-DICHLOROETHANE	0.3848		0.4138			7.5
CCV	Q841715		TRICHLOROETHENE	0.5122		0.5185			1.2
CCV	Q841715		1,2-DICHLOROPROPANE	0.2978		0.2945			1.1
CCV	Q841715		CIS-1,3-DICHLOROPROPENE	0.3931		0.3968			.9
CCV	Q841715		TOLUENE	0.5891		0.5686			3.4
CCV	Q841715		TRANS-1,3-DICHLOROPROPENE	0.3039		0.3189			4.9

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q841715		1,1,2-TRICHLOROETHANE	0.1369		0.1448			5.7
CCV	Q841715		TETRACHLOROETHENE	0.8833		0.8119			8
CCV	Q841715		CHLOROBENZENE	1.0353		0.9762			5.7
CCV	Q841715		1,1,1,2-TETRACHLOROETHANE	0.5521		0.5656			2.4
CCV	Q841715		STYRENE	0.8596		0.8446			1.7
CCV	Q841715		1,1,2,2-TETRACHLOROETHANE	0.429		0.4911			14.4
CCV	Q841715		1,4-DICHLOROBENZENE (P-DICHLOROBENZE	1.5454		1.5689			1.5
CCV	Q841715		1,2-DICHLOROBENZENE (O-DICHLOROBENZE	1.1464		1.1188			2.4
CCV	Q841715		ETHYL BENZENE	1.9111		1.8754			1.8
CCV	Q841715		XYLENES (O/M/P-XYLENE)	0.6239		0.6143			1.5
CCV	Q841715		DICHLOROETHANE-D4	0.379		0.3864			1.9
CCV	Q841715		TOLUENE-D8	1.0554		0.9318			11.7
CCV	Q841715		4-BROMOFLUOROBENZENE	1.6773		1.5944			4.9
BLA01	Q841716		CHLOROMETHANE			BDL 1	ug/L		
BLA01	Q841716		VINYL CHLORIDE			BDL 1	ug/L		
BLA01	Q841716		BROMOMETHANE			BDL 1	ug/L		
BLA01	Q841716		CHLOROETHANE			BDL 1	ug/L		
BLA01	Q841716		TRICHLOROFLUOROMETHANE			BDL 1	ug/L		
BLA01	Q841716		1,1-DICHLOROETHENE			BDL 1	ug/L		
BLA01	Q841716		DICHLOROMETHANE (METHYLENE CHLORIDE)			BDL 1	ug/L		
BLA01	Q841716		TRANS-1,2-DICHLOROETHENE			BDL 1	ug/L		
BLA01	Q841716		1,1-DICHLOROETHANE			BDL 1	ug/L		
BLA01	Q841716		CIS-1,2-DICHLOROETHENE			BDL 1	ug/L		
BLA01	Q841716		CHLOROFORM			BDL 1	ug/L		
BLA01	Q841716		1,1,1-TRICHLOROETHANE			BDL 1	ug/L		
BLA01	Q841716		CARBON TETRACHLORIDE			BDL 1	ug/L		
BLA01	Q841716		BENZENE			BDL 1	ug/L		
BLA01	Q841716		1,2-DICHLOROETHANE			BDL 1	ug/L		
BLA01	Q841716		TRICHLOROETHENE			BDL 1	ug/L		
BLA01	Q841716		1,2-DICHLOROPROPANE			BDL 1	ug/L		
BLA01	Q841716		CIS-1,3-DICHLOROPROPENE			BDL 1	ug/L		
BLA01	Q841716		TOLUENE			BDL 1	ug/L		
BLA01	Q841716		TRANS-1,3-DICHLOROPROPENE			BDL 1	ug/L		
BLA01	Q841716		1,1,2-TRICHLOROETHANE			BDL 1	ug/L		
BLA01	Q841716		TETRACHLOROETHENE			BDL 1	ug/L		
BLA01	Q841716		CHLOROBENZENE			BDL 1	ug/L		
BLA01	Q841716		1,1,1,2-TETRACHLOROETHANE			BDL 1	ug/L		
BLA01	Q841716		STYRENE			BDL 1	ug/L		
BLA01	Q841716		1,1,2,2-TETRACHLOROETHANE			BDL 1	ug/L		
BLA01	Q841716		1,4-DICHLOROBENZENE (P-DICHLOROBENZE			BDL 1	ug/L		
BLA01	Q841716		1,2-DICHLOROBENZENE (O-DICHLOROBENZE			BDL 1	ug/L		
BLA01	Q841716		ETHYL BENZENE			BDL 1	ug/L		
BLA01	Q841716		XYLENES (O/M/P-XYLENE)			BDL 1	ug/L		
BLA01	Q841716		DICHLOROETHANE-D4					110	
BLA01	Q841716		TOLUENE-D8					89	
BLA01	Q841716		4-BROMOFLUOROBENZENE					104	
SAMPLE	A443500		See Cert. of Analysis, Rep: 0						
SPI01	Q841719	A443642	BENZENE	0	10	9.45	ug/L	94.5	
SPI01	Q841719	A443642	CARBON TETRACHLORIDE	0	10	11.4	ug/L	114	
SPI01	Q841719	A443642	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	10	9	ug/L	90	
SPI01	Q841719	A443642	1,2-DICHLOROETHANE	0	10	11.6	ug/L	116	
SPI01	Q841719	A443642	1,1-DICHLOROETHENE	0	10	9.18	ug/L	91.8	
SPI01	Q841719	A443642	1,1,1-TRICHLOROETHANE	0	10	12	ug/L	120	
SPI01	Q841719	A443642	TRICHLOROETHENE	0	10	10.1	ug/L	101	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SPI01	Q841719	A443642	VINYL CHLORIDE	0	10	11.1	ug/L	111	
SPI01	Q841719	A443642	BROMOMETHANE	0	10	10.7	ug/L	107	
SPI01	Q841719	A443642	CHLOROBENZENE	0	10	8.95	ug/L	89.5	
SPI01	Q841719	A443642	CHLOROETHANE	0	10	11.6	ug/L	116	
SPI01	Q841719	A443642	CHLOROFORM	0	10	11.1	ug/L	111	
SPI01	Q841719	A443642	CHLOROMETHANE	0	10	10.7	ug/L	107	
SPI01	Q841719	A443642	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	10	9.5	ug/L	95	
SPI01	Q841719	A443642	TRANS-1,2-DICHLOROETHENE	0	10	9.77	ug/L	97.7	
SPI01	Q841719	A443642	CIS-1,2-DICHLOROETHENE	0	10	9.16	ug/L	91.6	
SPI01	Q841719	A443642	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10	9.99	ug/L	99.9	
SPI01	Q841719	A443642	1,1-DICHLOROETHANE	0	10	10.3	ug/L	103	
SPI01	Q841719	A443642	1,2-DICHLOROPROPANE	0	10	9.67	ug/L	96.7	
SPI01	Q841719	A443642	CIS-1,3-DICHLOROPROPENE	0	10	9.38	ug/L	93.8	
SPI01	Q841719	A443642	TRANS-1,3-DICHLOROPROPENE	0	10	9.83	ug/L	98.3	
SPI01	Q841719	A443642	ETHYL BENZENE	0	10	9.56	ug/L	95.6	
SPI01	Q841719	A443642	STYRENE	0	10	9.15	ug/L	91.5	
SPI01	Q841719	A443642	1,1,2-TRICHLOROETHANE	0	10	9.13	ug/L	91.3	
SPI01	Q841719	A443642	1,1,1,2-TETRACHLOROETHANE	0	10	10	ug/L	100	
SPI01	Q841719	A443642	1,1,2,2-TETRACHLOROETHANE	0	10	9.12	ug/L	91.2	
SPI01	Q841719	A443642	TETRACHLOROETHENE	0	10	9.17	ug/L	91.7	
SPI01	Q841719	A443642	TOLUENE	0	10	8.92	ug/L	89.2	
SPI01	Q841719	A443642	TRICHLOROFLUOROMETHANE	0	10	15.3	ug/L	153	
DPS01	Q841725	A443642	BENZENE	0	10	9.87	ug/L	98.7	4.3
DPS01	Q841725	A443642	CARBON TETRACHLORIDE	0	10	10.9	ug/L	109	4.4
DPS01	Q841725	A443642	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	10	9.81	ug/L	98.1	8.6
DPS01	Q841725	A443642	1,2-DICHLOROETHANE	0	10	12	ug/L	120	2.9
DPS01	Q841725	A443642	1,1-DICHLOROETHENE	0	10	9.57	ug/L	95.7	4.2
DPS01	Q841725	A443642	1,1,1-TRICHLOROETHANE	0	10	11.3	ug/L	113	5.9
DPS01	Q841725	A443642	TRICHLOROETHENE	0	10	10	ug/L	100	.6
DPS01	Q841725	A443642	VINYL CHLORIDE	0	10	11.8	ug/L	118	5.7
DPS01	Q841725	A443642	BROMOMETHANE	0	10	11.3	ug/L	113	6.2
DPS01	Q841725	A443642	CHLOROBENZENE	0	10	9.51	ug/L	95.1	6.1
DPS01	Q841725	A443642	CHLOROETHANE	0	10	11.6	ug/L	116	.3
DPS01	Q841725	A443642	CHLOROFORM	0	10	11.2	ug/L	112	1.1
DPS01	Q841725	A443642	CHLOROMETHANE	0	10	9.77	ug/L	97.7	9.4
DPS01	Q841725	A443642	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	10	10.2	ug/L	102	7
DPS01	Q841725	A443642	TRANS-1,2-DICHLOROETHENE	0	10	9.22	ug/L	92.2	5.8
DPS01	Q841725	A443642	CIS-1,2-DICHLOROETHENE	0	10	10.1	ug/L	101	9.7
DPS01	Q841725	A443642	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10	11.3	ug/L	113	12.7
DPS01	Q841725	A443642	1,1-DICHLOROETHANE	0	10	11.4	ug/L	114	9.7
DPS01	Q841725	A443642	1,2-DICHLOROPROPANE	0	10	10.2	ug/L	102	5.2
DPS01	Q841725	A443642	CIS-1,3-DICHLOROPROPENE	0	10	10.2	ug/L	102	8.6
DPS01	Q841725	A443642	TRANS-1,3-DICHLOROPROPENE	0	10	11	ug/L	110	11.1
DPS01	Q841725	A443642	ETHYL BENZENE	0	10	9.73	ug/L	97.3	1.8
DPS01	Q841725	A443642	STYRENE	0	10	9.27	ug/L	92.7	1.3
DPS01	Q841725	A443642	1,1,2-TRICHLOROETHANE	0	10	10.6	ug/L	106	14.5
DPS01	Q841725	A443642	1,1,1,2-TETRACHLOROETHANE	0	10	10.3	ug/L	103	3.1
DPS01	Q841725	A443642	1,1,2,2-TETRACHLOROETHANE	0	10	11.5	ug/L	115	23.3
DPS01	Q841725	A443642	TETRACHLOROETHENE	0	10	8.56	ug/L	85.6	6.9
DPS01	Q841725	A443642	TOLUENE	0	10	9.31	ug/L	93.1	4.3
DPS01	Q841725	A443642	TRICHLOROFLUOROMETHANE	0	10	14.8	ug/L	148	3.5

HERITAGE ENVIRONMENTAL SERVICES, LLC

Run: R349760 Analyst.: R SHAMP Run Date...: 01-JUN-98 Instrument: GC/MS VOA
ANALYTICAL Reviewer: A BRADBURN Review Date: 08-JUN-98

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q843667		CHLOROMETHANE	0.2692		0.2229			17.1
CCV	Q843667		VINYL CHLORIDE	0.2877		0.2977			3.4
CCV	Q843667		BROMOMETHANE	0.2404		0.344			43
CCV	Q843667		CHLOROETHANE	0.1972		0.2161			9.5
CCV	Q843667		TRICHLOROFLUOROMETHANE	0.4893		0.6695			36.8
CCV	Q843667		1,1-DICHLOROETHENE	0.351		0.386			9.9
CCV	Q843667		DICHLOROMETHANE (METHYLENE CHLORIDE)	0.3138		0.2879			8.2
CCV	Q843667		TRANS-1,2-DICHLOROETHENE	0.3916		0.4025			2.7
CCV	Q843667		1,1-DICHLOROETHANE	0.6013		0.6304			4.8
CCV	Q843667		CIS-1,2-DICHLOROETHENE	0.3427		0.3534			3.1
CCV	Q843667		CHLOROFORM	0.5878		0.6242			6.1
CCV	Q843667		1,1,1-TRICHLOROETHANE	0.553		0.5983			8.1
CCV	Q843667		CARBON TETRACHLORIDE	0.4909		0.5382			9.6
CCV	Q843667		BENZENE	0.8616		0.8756			1.6
CCV	Q843667		1,2-DICHLOROETHANE	0.1736		0.1717			1
CCV	Q843667		TRICHLOROETHENE	0.4494		0.447			.5
CCV	Q843667		1,2-DICHLOROPROPANE	0.3169		0.3112			1.7
CCV	Q843667		CIS-1,3-DICHLOROPROPENE	0.2917		0.2688			7.8
CCV	Q843667		TOLUENE	0.5553		0.5711			2.8
CCV	Q843667		TRANS-1,3-DICHLOROPROPENE	0.1685		0.1581			6.1
CCV	Q843667		1,1,2-TRICHLOROETHANE	0.1234		0.1221			1
CCV	Q843667		TETRACHLOROETHENE	0.9041		0.8845			2.1
CCV	Q843667		CHLOROBENZENE	1.1186		1.092			2.3
CCV	Q843667		1,1,1,2-TETRACHLOROETHANE	0.4391		0.41			6.6
CCV	Q843667		ETHYL BENZENE	1.8799		1.8376			2.2
CCV	Q843667		STYRENE	0.8596		0.8707			1.2
CCV	Q843667		1,1,2,2-TETRACHLOROETHANE	0.5095		0.4779			6.2
CCV	Q843667		1,4-DICHLOROBENZENE (P-DICHLOROBENZE	1.6417		1.4979			8.7
CCV	Q843667		1,2-DICHLOROBENZENE (O-DICHLOROBENZE	1.1843		1.1067			6.5
CCV	Q843667		XYLENES (O/M/P-XYLENE)	0.1993		0.196			1.6
CCV	Q843667		DICHLOROETHANE-D4	0.1313		0.1402			6.7
CCV	Q843667		TOLUENE-D8	0.8388		0.8452			.7
CCV	Q843667		4-BROMOFLUOROBENZENE	1.2106		1.1854			2
BLA01	Q843668		CHLOROMETHANE			BDL 1	ug/L		
BLA01	Q843668		VINYL CHLORIDE			BDL 1	ug/L		
BLA01	Q843668		BROMOMETHANE			BDL 1	ug/L		
BLA01	Q843668		CHLOROETHANE			BDL 1	ug/L		
BLA01	Q843668		TRICHLOROFLUOROMETHANE			BDL 1	ug/L		
BLA01	Q843668		1,1-DICHLOROETHENE			BDL 1	ug/L		
BLA01	Q843668		DICHLOROMETHANE (METHYLENE CHLORIDE)			BDL 1	ug/L		
BLA01	Q843668		TRANS-1,2-DICHLOROETHENE			BDL 1	ug/L		
BLA01	Q843668		1,1-DICHLOROETHANE			BDL 1	ug/L		
BLA01	Q843668		CIS-1,2-DICHLOROETHENE			BDL 1	ug/L		
BLA01	Q843668		CHLOROFORM			BDL 1	ug/L		
BLA01	Q843668		1,1,1-TRICHLOROETHANE			BDL 1	ug/L		
BLA01	Q843668		CARBON TETRACHLORIDE			BDL 1	ug/L		
BLA01	Q843668		BENZENE			BDL 1	ug/L		
BLA01	Q843668		1,2-DICHLOROETHANE			BDL 1	ug/L		
BLA01	Q843668		TRICHLOROETHENE			BDL 1	ug/L		
BLA01	Q843668		1,2-DICHLOROPROPANE			BDL 1	ug/L		
BLA01	Q843668		CIS-1,3-DICHLOROPROPENE			BDL 1	ug/L		
BLA01	Q843668		TOLUENE			BDL 1	ug/L		

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q843668		TRANS-1,3-DICHLOROPROPENE			BDL 1	ug/L		
BLA01	Q843668		1,1,2-TRICHLOROETHANE			BDL 1	ug/L		
BLA01	Q843668		TETRACHLOROETHENE			BDL 1	ug/L		
BLA01	Q843668		CHLOROBENZENE			BDL 1	ug/L		
BLA01	Q843668		1,1,1,2-TETRACHLOROETHANE			BDL 1	ug/L		
BLA01	Q843668		ETHYL BENZENE			BDL 1	ug/L		
BLA01	Q843668		STYRENE			BDL 1	ug/L		
BLA01	Q843668		1,1,2,2-TETRACHLOROETHANE			BDL 1	ug/L		
BLA01	Q843668		1,4-DICHLOROBENZENE (P-DICHLOROBENZE			BDL 1	ug/L		
BLA01	Q843668		1,2-DICHLOROBENZENE (O-DICHLOROBENZE			BDL 1	ug/L		
BLA01	Q843668		XYLENES (O/M/P-XYLENE)			BDL 1	ug/L		
BLA01	Q843668		DICHLOROETHANE-D4					107	
BLA01	Q843668		TOLUENE-D8					109	
BLA01	Q843668		4-BROMOFLUOROBENZENE					110	
LCS01	Q843669		BROMOMETHANE	10		14.6	ug/L	146	
SAMPLE	A443496		See Cert. of Analysis, Rep: 0						
SAMPLE	A443497		See Cert. of Analysis, Rep: 0						
SAMPLE	A443498		See Cert. of Analysis, Rep: 0						
SAMPLE	A443499		See Cert. of Analysis, Rep: 0						
SPI01	Q843670	A443499	BENZENE	0	10	10.5	ug/L	105	
SPI01	Q843670	A443499	CARBON TETRACHLORIDE	0	10	10.7	ug/L	107	
SPI01	Q843670	A443499	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	10	9.56	ug/L	95.6	
SPI01	Q843670	A443499	1,2-DICHLOROETHANE	0	10	10.6	ug/L	106	
SPI01	Q843670	A443499	1,1-DICHLOROETHENE	0	10	9.94	ug/L	99.4	
SPI01	Q843670	A443499	1,1,1-TRICHLOROETHANE	0	10	10.9	ug/L	109	
SPI01	Q843670	A443499	TRICHLOROETHENE	0	10	10.7	ug/L	107	
SPI01	Q843670	A443499	VINYL CHLORIDE	0	10	12	ug/L	120	
SPI01	Q843670	A443499	BROMOMETHANE	0	10	12	ug/L	120	
SPI01	Q843670	A443499	CHLOROBENZENE	0	10	9.94	ug/L	99.4	
SPI01	Q843670	A443499	CHLOROETHANE	0	10	11.8	ug/L	118	
SPI01	Q843670	A443499	CHLOROFORM	0	10	11	ug/L	110	
SPI01	Q843670	A443499	CHLOROMETHANE	0	10	10.1	ug/L	101	
SPI01	Q843670	A443499	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	10	9.55	ug/L	95.5	
SPI01	Q843670	A443499	TRANS-1,2-DICHLOROETHENE	0	10	10.6	ug/L	106	
SPI01	Q843670	A443499	CIS-1,2-DICHLOROETHENE	0	10	10.7	ug/L	107	
SPI01	Q843670	A443499	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10	9.7	ug/L	97	
SPI01	Q843670	A443499	1,1-DICHLOROETHANE	0	10	11	ug/L	110	
SPI01	Q843670	A443499	1,2-DICHLOROPROPANE	0	10	10.3	ug/L	103	
SPI01	Q843670	A443499	CIS-1,3-DICHLOROPROPENE	0	10	10.5	ug/L	105	
SPI01	Q843670	A443499	TRANS-1,3-DICHLOROPROPENE	0	10	10.3	ug/L	103	
SPI01	Q843670	A443499	ETHYL BENZENE	0	10	10.1	ug/L	101	
SPI01	Q843670	A443499	STYRENE	0	10	9.68	ug/L	96.8	
SPI01	Q843670	A443499	1,1,2-TRICHLOROETHANE	0	10	10.3	ug/L	103	
SPI01	Q843670	A443499	1,1,1,2-TETRACHLOROETHANE	0	10	9.52	ug/L	95.2	
SPI01	Q843670	A443499	1,1,2,2-TETRACHLOROETHANE	0	10	11.5	ug/L	115	
SPI01	Q843670	A443499	TETRACHLOROETHENE	0	10	9.97	ug/L	99.7	
SPI01	Q843670	A443499	TOLUENE	0	10	10.3	ug/L	103	
SPI01	Q843670	A443499	TRICHLOROFLUOROMETHANE	0	10	14.6	ug/L	146	
DPS01	Q843671	A443499	BENZENE	0	10	11	ug/L	110	4.1
DPS01	Q843671	A443499	CARBON TETRACHLORIDE	0	10	11.2	ug/L	112	4.9
DPS01	Q843671	A443499	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	10	9.46	ug/L	94.6	1.1
DPS01	Q843671	A443499	1,2-DICHLOROETHANE	0	10	11.9	ug/L	119	11.5
DPS01	Q843671	A443499	1,1-DICHLOROETHENE	0	10	10.8	ug/L	108	7.9
DPS01	Q843671	A443499	1,1,1-TRICHLOROETHANE	0	10	11.7	ug/L	117	6.9

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
DPS01	Q843671	A443499	TRICHLOROETHENE	0	10	10.9	ug/L	109	1.3
PS01	Q843671	A443499	VINYL CHLORIDE	0	10	13.1	ug/L	131	9.1
PS01	Q843671	A443499	BROMOMETHANE	0	10	16.7	ug/L	167	32.6
DPS01	Q843671	A443499	CHLOROBENZENE	0	10	10.1	ug/L	101	1.1
DPS01	Q843671	A443499	CHLOROETHANE	0	10	12.6	ug/L	126	7
DPS01	Q843671	A443499	CHLOROFORM	0	10	12	ug/L	120	8.7
DPS01	Q843671	A443499	CHLOROMETHANE	0	10	11	ug/L	110	8.3
DPS01	Q843671	A443499	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	10	10.3	ug/L	103	7.3
DPS01	Q843671	A443499	TRANS-1,2-DICHLOROETHENE	0	10	10.8	ug/L	108	2.1
DPS01	Q843671	A443499	CIS-1,2-DICHLOROETHENE	0	10	11.6	ug/L	116	8.5
DPS01	Q843671	A443499	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10	10.5	ug/L	105	7.8
DPS01	Q843671	A443499	1,1-DICHLOROETHANE	0	10	12.2	ug/L	122	10.4
DPS01	Q843671	A443499	1,2-DICHLOROPROPANE	0	10	11.1	ug/L	111	7.3
DPS01	Q843671	A443499	CIS-1,3-DICHLOROPROPENE	0	10	10.5	ug/L	105	.1
DPS01	Q843671	A443499	TRANS-1,3-DICHLOROPROPENE	0	10	10.5	ug/L	105	2.4
DPS01	Q843671	A443499	ETHYL BENZENE	0	10	10.3	ug/L	103	2
DPS01	Q843671	A443499	STYRENE	0	10	10.6	ug/L	106	9.4
DPS01	Q843671	A443499	1,1,2-TRICHLOROETHANE	0	10	10.8	ug/L	108	5
DPS01	Q843671	A443499	1,1,1,2-TETRACHLOROETHANE	0	10	8.03	ug/L	80.3	17
DPS01	Q843671	A443499	1,1,2,2-TETRACHLOROETHANE	0	10	9.66	ug/L	96.6	17.3
DPS01	Q843671	A443499	TETRACHLOROETHENE	0	10	8.48	ug/L	84.8	16.2
DPS01	Q843671	A443499	TOLUENE	0	10	10.8	ug/L	108	5.2
DPS01	Q843671	A443499	TRICHLOROFLUOROMETHANE	0	10	15.5	ug/L	155	5.4

Run: R349800 Analyst.: H WILLIAMS Run Date...: 03-JUN-98 Instrument: GC/MS VOA
ANALYTICAL Reviewer: A BRADBURN Review Date: 08-JUN-98

CCV	Q843878		CHLOROMETHANE	0.1779		0.1951			9.6
CCV	Q843878		VINYL CHLORIDE	0.1978		0.2012			1.7
CV	Q843878		BROMOMETHANE	0.2233		0.2269			1.6
CCV	Q843878		CHLOROETHANE	0.1346		0.1581			17.4
CCV	Q843878		TRICHLOROFLUOROMETHANE	0.6921		0.8676			25.3
CCV	Q843878		1,1-DICHLOROETHENE	0.3209		0.3359			4.6
CCV	Q843878		DICHLOROMETHANE (METHYLENE CHLORIDE)	0.2503		0.2536			1.3
CCV	Q843878		TRANS-1,2-DICHLOROETHENE	0.3432		0.345			.5
CCV	Q843878		1,1-DICHLOROETHANE	0.6402		0.6773			5.7
CCV	Q843878		CIS-1,2-DICHLOROETHENE	0.3214		0.3265			1.5
CCV	Q843878		CHLOROFORM	0.8235		0.877			6.4
CCV	Q843878		1,1,1-TRICHLOROETHANE	0.8752		0.9381			7.1
CCV	Q843878		CARBON TETRACHLORIDE	0.8613		0.9341			8.4
CCV	Q843878		BENZENE	0.8303		0.7893			4.9
CCV	Q843878		1,2-DICHLOROETHANE	0.3848		0.4113			6.8
CCV	Q843878		TRICHLOROETHENE	0.5122		0.5134			.2
CCV	Q843878		1,2-DICHLOROPROPANE	0.2978		0.2893			2.8
CCV	Q843878		CIS-1,3-DICHLOROPROPENE	0.3931		0.3852			2
CCV	Q843878		TOLUENE	0.5891		0.5531			6.1
CCV	Q843878		TRANS-1,3-DICHLOROPROPENE	0.3039		0.3008			1
CCV	Q843878		1,1,2-TRICHLOROETHANE	0.1369		0.1393			1.7
CCV	Q843878		TETRACHLOROETHENE	0.8833		0.833			5.6
CCV	Q843878		CHLOROBENZENE	1.0353		0.9922			4.1
CCV	Q843878		1,1,1,2-TETRACHLOROETHANE	0.5521		0.5762			4.3
CCV	Q843878		STYRENE	0.8596		0.8531			.7
CCV	Q843878		1,1,2,2-TETRACHLOROETHANE	0.429		0.4836			12.7
CCV	Q843878		1,4-DICHLOROBENZENE (P-DICHLOROBENZE	1.5454		1.5937			3.1
CCV	Q843878		1,2-DICHLOROBENZENE (O-DICHLOROBENZE	1.1464		1.1358			.9
CV	Q843878		ETHYL BENZENE	1.9111		1.8731			1.9

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q843878		XYLENES (O/M/P-XYLENE)	0.6239		0.6174			1
CCV	Q843878		DICHLOROETHANE-D4	0.379		0.3777			.3
CCV	Q843878		TOLUENE-D8	1.0554		0.8939			15.3
CCV	Q843878		4-BROMOFLUOROBENZENE	1.6773		1.5448			7.8
BLA01	Q843879		CHLOROMETHANE			BDL 1	ug/L		
BLA01	Q843879		VINYL CHLORIDE			BDL 1	ug/L		
BLA01	Q843879		BROMOMETHANE			BDL 1	ug/L		
BLA01	Q843879		CHLOROETHANE			BDL 1	ug/L		
BLA01	Q843879		TRICHLOROFLUOROMETHANE			BDL 1	ug/L		
BLA01	Q843879		1,1-DICHLOROETHENE			BDL 1	ug/L		
BLA01	Q843879		DICHLOROMETHANE (METHYLENE CHLORIDE)			BDL 1	ug/L		
BLA01	Q843879		TRANS-1,2-DICHLOROETHENE			BDL 1	ug/L		
BLA01	Q843879		1,1-DICHLOROETHANE			BDL 1	ug/L		
BLA01	Q843879		CIS-1,2-DICHLOROETHENE			BDL 1	ug/L		
BLA01	Q843879		CHLOROFORM			BDL 1	ug/L		
BLA01	Q843879		1,1,1-TRICHLOROETHANE			BDL 1	ug/L		
BLA01	Q843879		CARBON TETRACHLORIDE			BDL 1	ug/L		
BLA01	Q843879		BENZENE			BDL 1	ug/L		
BLA01	Q843879		1,2-DICHLOROETHANE			BDL 1	ug/L		
BLA01	Q843879		TRICHLOROETHENE			BDL 1	ug/L		
BLA01	Q843879		1,2-DICHLOROPROPANE			BDL 1	ug/L		
BLA01	Q843879		CIS-1,3-DICHLOROPROPENE			BDL 1	ug/L		
BLA01	Q843879		TOLUENE			BDL 1	ug/L		
BLA01	Q843879		TRANS-1,3-DICHLOROPROPENE			BDL 1	ug/L		
BLA01	Q843879		1,1,2-TRICHLOROETHANE			BDL 1	ug/L		
BLA01	Q843879		TETRACHLOROETHENE			BDL 1	ug/L		
BLA01	Q843879		CHLOROBENZENE			BDL 1	ug/L		
BLA01	Q843879		1,1,1,2-TETRACHLOROETHANE			BDL 1	ug/L		
BLA01	Q843879		STYRENE			BDL 1	ug/L		
BLA01	Q843879		1,1,2,2-TETRACHLOROETHANE			BDL 1	ug/L		
BLA01	Q843879		1,4-DICHLOROBENZENE (P-DICHLOROBENZE			BDL 1	ug/L		
BLA01	Q843879		1,2-DICHLOROBENZENE (O-DICHLOROBENZE			BDL 1	ug/L		
BLA01	Q843879		ETHYL BENZENE			BDL 1	ug/L		
BLA01	Q843879		XYLENES (O/M/P-XYLENE)			BDL 1	ug/L		
BLA01	Q843879		DICHLOROETHANE-D4					103	
BLA01	Q843879		TOLUENE-D8					88	
BLA01	Q843879		4-BROMOFLUOROBENZENE					99	
LCS01	Q843880		CIS-1,3-DICHLOROPROPENE	10		9.23	ug/L	92.3	
SAMPLE	A443937		See Cert. of Analysis, Rep: 0						
SAMPLE	A443938		See Cert. of Analysis, Rep: 0						
SAMPLE	A443939		See Cert. of Analysis, Rep: 0						
SAMPLE	A443940		See Cert. of Analysis, Rep: 0						
SAMPLE	A443941		See Cert. of Analysis, Rep: 0						
SAMPLE	A443942		See Cert. of Analysis, Rep: 0						
SPI01	Q843882	A443940	BENZENE	0	10	9.6	ug/L	96	
SPI01	Q843882	A443940	CARBON TETRACHLORIDE	0	10	10.7	ug/L	107	
SPI01	Q843882	A443940	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	10	9.5	ug/L	95	
SPI01	Q843882	A443940	1,2-DICHLOROETHANE	0	10	10.9	ug/L	109	
SPI01	Q843882	A443940	1,1-DICHLOROETHENE	0	10	8.83	ug/L	88.3	
SPI01	Q843882	A443940	1,1,1-TRICHLOROETHANE	0	10	11	ug/L	110	
SPI01	Q843882	A443940	TRICHLOROETHENE	0	10	9.87	ug/L	98.7	
SPI01	Q843882	A443940	VINYL CHLORIDE	0	10	10.8	ug/L	108	
SPI01	Q843882	A443940	BROMOMETHANE	0	10	10.7	ug/L	107	
SPI01	Q843882	A443940	CHLOROBENZENE	0	10	9.31	ug/L	93.1	

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SPI01	Q843882	A443940	CHLOROETHANE	0	10	11.4	ug/L	114	
SPI01	Q843882	A443940	CHLOROFORM	0	10	10.3	ug/L	103	
SPI01	Q843882	A443940	CHLOROMETHANE	0	10	9.81	ug/L	98.1	
SPI01	Q843882	A443940	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	10	9.27	ug/L	92.7	
SPI01	Q843882	A443940	TRANS-1,2-DICHLOROETHENE	0	10	9.53	ug/L	95.3	
SPI01	Q843882	A443940	CIS-1,2-DICHLOROETHENE	0	10	9.15	ug/L	91.5	
SPI01	Q843882	A443940	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10	9.98	ug/L	99.8	
SPI01	Q843882	A443940	1,1-DICHLOROETHANE	0	10	10.6	ug/L	106	
SPI01	Q843882	A443940	1,2-DICHLOROPROPANE	0	10	9.03	ug/L	90.3	
SPI01	Q843882	A443940	CIS-1,3-DICHLOROPROPENE	0	10	9.33	ug/L	93.3	
SPI01	Q843882	A443940	TRANS-1,3-DICHLOROPROPENE	0	10	9.82	ug/L	98.2	
SPI01	Q843882	A443940	ETHYL BENZENE	0	10	10.3	ug/L	103	
SPI01	Q843882	A443940	STYRENE	0	10	9.39	ug/L	93.9	
SPI01	Q843882	A443940	1,1,2-TRICHLOROETHANE	0	10	10.2	ug/L	102	
SPI01	Q843882	A443940	1,1,1,2-TETRACHLOROETHANE	0	10	10.4	ug/L	104	
SPI01	Q843882	A443940	1,1,2,2-TETRACHLOROETHANE	0	10	10.2	ug/L	102	
SPI01	Q843882	A443940	TETRACHLOROETHENE	0	10	9.67	ug/L	96.7	
SPI01	Q843882	A443940	TOLUENE	0	10	9.26	ug/L	92.6	
SPI01	Q843882	A443940	TRICHLOROFLUOROMETHANE	0	10	14.1	ug/L	141	
DPS01	Q843884	A443940	BENZENE	0	10	9.47	ug/L	94.7	1.4
DPS01	Q843884	A443940	CARBON TETRACHLORIDE	0	10	11.3	ug/L	113	5.4
DPS01	Q843884	A443940	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	10	9.47	ug/L	94.7	.3
DPS01	Q843884	A443940	1,2-DICHLOROETHANE	0	10	10.6	ug/L	106	2.5
DPS01	Q843884	A443940	1,1-DICHLOROETHENE	0	10	8.91	ug/L	89.1	.9
DPS01	Q843884	A443940	1,1,1-TRICHLOROETHANE	0	10	11.1	ug/L	111	1.2
DPS01	Q843884	A443940	TRICHLOROETHENE	0	10	9.9	ug/L	99	.3
DPS01	Q843884	A443940	VINYL CHLORIDE	0	10	11.6	ug/L	116	6.4
DPS01	Q843884	A443940	BROMOMETHANE	0	10	10.4	ug/L	104	2.9
DPS01	Q843884	A443940	CHLOROBENZENE	0	10	9.24	ug/L	92.4	.8
DPS01	Q843884	A443940	CHLOROETHANE	0	10	11.4	ug/L	114	.1
DPS01	Q843884	A443940	CHLOROFORM	0	10	10.4	ug/L	104	1.1
DPS01	Q843884	A443940	CHLOROMETHANE	0	10	9.99	ug/L	99.9	1.8
DPS01	Q843884	A443940	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	10	9.21	ug/L	92.1	.6
DPS01	Q843884	A443940	TRANS-1,2-DICHLOROETHENE	0	10	9.84	ug/L	98.4	3.2
DPS01	Q843884	A443940	CIS-1,2-DICHLOROETHENE	0	10	9.27	ug/L	92.7	1.3
DPS01	Q843884	A443940	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	10	9.49	ug/L	94.9	5
DPS01	Q843884	A443940	1,1-DICHLOROETHANE	0	10	10.6	ug/L	106	.1
DPS01	Q843884	A443940	1,2-DICHLOROPROPANE	0	10	9.22	ug/L	92.2	2.1
DPS01	Q843884	A443940	CIS-1,3-DICHLOROPROPENE	0	10	9.06	ug/L	90.6	2.9
DPS01	Q843884	A443940	TRANS-1,3-DICHLOROPROPENE	2.78	10	9.66	ug/L	68.8	2.3
DPS01	Q843884	A443940	ETHYL BENZENE	0	10	10.4	ug/L	104	.6
DPS01	Q843884	A443940	STYRENE	0	10	9.33	ug/L	93.3	.6
DPS01	Q843884	A443940	1,1,2-TRICHLOROETHANE	0	10	9.44	ug/L	94.4	8.1
DPS01	Q843884	A443940	1,1,1,2-TETRACHLOROETHANE	0	10	9.83	ug/L	98.3	5.7
DPS01	Q843884	A443940	1,1,2,2-TETRACHLOROETHANE	0	10	13.4	ug/L	134	27.1
DPS01	Q843884	A443940	TETRACHLOROETHENE	0	10	9.9	ug/L	99	2.4
DPS01	Q843884	A443940	TOLUENE	0	10	9.08	ug/L	90.8	2
DPS01	Q843884	A443940	TRICHLOROFLUOROMETHANE	0	10	14	ug/L	140	.3

Run: R349802 Analyst.: R SHAMP Run Date...: 02-JUN-98 Instrument: GC/MS VOA
ANALYTICAL Reviewer: A BRADBURN Review Date: 09-JUN-98

CCV	Q843885		CHLOROMETHANE	0.3053		0.249			18.4
CCV	Q843885		VINYL CHLORIDE	0.2937		0.2629			10.4
CCV	Q843885		BROMOMETHANE	0.2481		0.1778			28.3
CCV	Q843885		CHLOROETHANE	0.1911		0.1465			23.3

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
CCV	Q843885		TRICHLOROFLUOROMETHANE	0.4211		0.4647			10.3
CCV	Q843885		1,1-DICHLOROETHENE	0.3373		0.3656			8.3
CCV	Q843885		DICHLOROMETHANE (METHYLENE CHLORIDE)	0.4513		0.4446			1.4
CCV	Q843885		TRANS-1,2-DICHLOROETHENE	0.3733		0.4058			8.7
CCV	Q843885		1,1-DICHLOROETHANE	0.7473		0.764			2.2
CCV	Q843885		CIS-1,2-DICHLOROETHENE	0.394		0.4265			8.2
CCV	Q843885		CHLOROFORM	0.7493		0.8038			7.2
CCV	Q843885		1,1,1-TRICHLOROETHANE	0.5313		0.5929			11.5
CCV	Q843885		CARBON TETRACHLORIDE	0.475		0.5134			8
CCV	Q843885		1,2-DICHLOROETHANE	0.5042		0.5279			4.7
CCV	Q843885		BENZENE	0.9751		1.0465			7.3
CCV	Q843885		TRICHLOROETHENE	0.4104		0.457			11.3
CCV	Q843885		1,2-DICHLOROPROPANE	0.5137		0.5017			2.3
CCV	Q843885		CIS-1,3-DICHLOROPROPENE	0.5242		0.5665			8
CCV	Q843885		TOLUENE	0.9749		1.0216			4.7
CCV	Q843885		TRANS-1,3-DICHLOROPROPENE	0.4076		0.449			10.1
CCV	Q843885		1,1,2-TRICHLOROETHANE	0.3392		0.3506			3.3
CCV	Q843885		TETRACHLOROETHENE	0.6376		0.6755			5.9
CCV	Q843885		CHLOROBENZENE	0.9776		1.0408			6.4
CCV	Q843885		1,1,1,2-TETRACHLOROETHANE	0.4975		0.5158			3.6
CCV	Q843885		ETHYL BENZENE	0.416		0.4838			16.2
CCV	Q843885		STYRENE	0.7233		0.8716			20.5
CCV	Q843885		1,1,2,2-TETRACHLOROETHANE	2.0884		2.2093			5.7
CCV	Q843885		1,4-DICHLOROBENZENE (P-DICHLOROBENZE	1.5471		1.6492			6.5
CCV	Q843885		1,2-DICHLOROBENZENE (O-DICHLOROBENZE	1.445		1.5066			4.2
CCV	Q843885		DICHLOROETHANE-D4	0.4122		0.3954			4
CCV	Q843885		TOLUENE-D8	0.8651		0.8545			1.2
CCV	Q843885		4-BROMOFLUOROBENZENE	0.5672		0.641			13
BLA01	Q843886		CHLOROMETHANE			BDL 5	ug/L		
BLA01	Q843886		VINYL CHLORIDE			BDL 5	ug/L		
BLA01	Q843886		BROMOMETHANE			BDL 5	ug/L		
BLA01	Q843886		CHLOROETHANE			BDL 5	ug/L		
BLA01	Q843886		TRICHLOROFLUOROMETHANE			BDL 5	ug/L		
BLA01	Q843886		1,1-DICHLOROETHENE			BDL 5	ug/L		
BLA01	Q843886		DICHLOROMETHANE (METHYLENE CHLORIDE)			BDL 5	ug/L		
BLA01	Q843886		TRANS-1,2-DICHLOROETHENE			BDL 5	ug/L		
BLA01	Q843886		1,1-DICHLOROETHANE			BDL 5	ug/L		
BLA01	Q843886		CIS-1,2-DICHLOROETHENE			BDL 5	ug/L		
BLA01	Q843886		CHLOROFORM			BDL 5	ug/L		
BLA01	Q843886		1,1,1-TRICHLOROETHANE			BDL 5	ug/L		
BLA01	Q843886		CARBON TETRACHLORIDE			BDL 5	ug/L		
BLA01	Q843886		1,2-DICHLOROETHANE			BDL 5	ug/L		
BLA01	Q843886		BENZENE			BDL 5	ug/L		
BLA01	Q843886		TRICHLOROETHENE			BDL 5	ug/L		
BLA01	Q843886		1,2-DICHLOROPROPANE			BDL 5	ug/L		
BLA01	Q843886		CIS-1,3-DICHLOROPROPENE			BDL 5	ug/L		
BLA01	Q843886		TOLUENE			BDL 5	ug/L		
BLA01	Q843886		TRANS-1,3-DICHLOROPROPENE			BDL 5	ug/L		
BLA01	Q843886		1,1,2-TRICHLOROETHANE			BDL 5	ug/L		
BLA01	Q843886		TETRACHLOROETHENE			BDL 5	ug/L		
BLA01	Q843886		CHLOROBENZENE			BDL 5	ug/L		
BLA01	Q843886		1,1,1,2-TETRACHLOROETHANE			BDL 5	ug/L		
BLA01	Q843886		ETHYL BENZENE			BDL 5	ug/L		
A01	Q843886		STYRENE			BDL 5	ug/L		

HERITAGE ENVIRONMENTAL SERVICES, LLC

QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q843886		1,1,2,2-TETRACHLOROETHANE			BDL 5	ug/L		
BLA01	Q843886		1,4-DICHLOROBENZENE (P-DICHLOROBENZE			BDL 5	ug/L		
BLA01	Q843886		1,2-DICHLOROBENZENE (O-DICHLOROBENZE			BDL 5	ug/L		
BLA01	Q843886		DICHLOROETHANE-D4					102	
BLA01	Q843886		TOLUENE-D8					100	
BLA01	Q843886		4-BROMOFLUOROBENZENE					102	
LCS01	Q843887		ETHYL BENZENE	20		20.5	ug/L	102.5	
LCS01	Q843887		STYRENE	20		20.6	ug/L	103	
LCS01	Q843887		TRICHLOROFLUOROMETHANE	20		20.1	ug/L	100.5	
SAMPLE	A443678		See Cert. of Analysis, Rep: 0						
SAMPLE	A443679		See Cert. of Analysis, Rep: 0						
SAMPLE	A443680		See Cert. of Analysis, Rep: 0						
SPI01	Q843888	A443680	BENZENE	0	50	56.9	ug/L	114	
SPI01	Q843888	A443680	CARBON TETRACHLORIDE	0	50	59.1	ug/L	118	
SPI01	Q843888	A443680	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	50	46.2	ug/L	92.4	
SPI01	Q843888	A443680	1,2-DICHLOROETHANE	0	50	56.5	ug/L	113	
SPI01	Q843888	A443680	1,1-DICHLOROETHENE	0	50	46.3	ug/L	92.6	
SPI01	Q843888	A443680	1,1,1-TRICHLOROETHANE	0	50	58	ug/L	116	
SPI01	Q843888	A443680	TRICHLOROETHENE	0	50	54.6	ug/L	109	
SPI01	Q843888	A443680	VINYL CHLORIDE	0	50	52.2	ug/L	104	
SPI01	Q843888	A443680	BROMOMETHANE	0	50	46	ug/L	92	
SPI01	Q843888	A443680	CHLOROBENZENE	0	50	45.8	ug/L	91.7	
SPI01	Q843888	A443680	CHLOROETHANE	0	50	45	ug/L	90	
SPI01	Q843888	A443680	CHLOROFORM	0	50	54.9	ug/L	110	
SPI01	Q843888	A443680	CHLOROMETHANE	0	50	45.7	ug/L	91.4	
SPI01	Q843888	A443680	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	50	48.6	ug/L	97.3	
SPI01	Q843888	A443680	TRANS-1,2-DICHLOROETHENE	0	50	48.5	ug/L	97	
SPI01	Q843888	A443680	CIS-1,2-DICHLOROETHENE	0	50	48.5	ug/L	97.1	
SPI01	Q843888	A443680	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	50	43.5	ug/L	87	
SPI01	Q843888	A443680	1,1-DICHLOROETHANE	0	50	54.4	ug/L	109	
SPI01	Q843888	A443680	1,2-DICHLOROPROPANE	0	50	46.9	ug/L	93.7	
SPI01	Q843888	A443680	CIS-1,3-DICHLOROPROPENE	0	50	54.3	ug/L	109	
SPI01	Q843888	A443680	TRANS-1,3-DICHLOROPROPENE	0	50	57.2	ug/L	114	
SPI01	Q843888	A443680	ETHYL BENZENE	0	50	! 64.2	ug/L	128	
SPI01	Q843888	A443680	STYRENE	0	50	! 63.7	ug/L	127	
SPI01	Q843888	A443680	1,1,2-TRICHLOROETHANE	0	50	51.3	ug/L	103	
SPI01	Q843888	A443680	1,1,1,2-TETRACHLOROETHANE	0	50	51.7	ug/L	103	
SPI01	Q843888	A443680	1,1,2,2-TETRACHLOROETHANE	0	50	55.6	ug/L	111	
SPI01	Q843888	A443680	TETRACHLOROETHENE	0	50	55	ug/L	110	
SPI01	Q843888	A443680	TOLUENE	0	50	59.2	ug/L	118	
SPI01	Q843888	A443680	TRICHLOROFLUOROMETHANE	0	50	! 85.2	ug/L	170	
DPS01	Q843889	A443680	BENZENE	0	50	60.4	ug/L	121	6
DPS01	Q843889	A443680	CARBON TETRACHLORIDE	0	50	59.7	ug/L	119	.9
DPS01	Q843889	A443680	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	50	45	ug/L	90	2.7
DPS01	Q843889	A443680	1,2-DICHLOROETHANE	0	50	58.4	ug/L	117	3.4
DPS01	Q843889	A443680	1,1-DICHLOROETHENE	0	50	47	ug/L	93.9	1.5
DPS01	Q843889	A443680	1,1,1-TRICHLOROETHANE	0	50	60.8	ug/L	122	4.6
DPS01	Q843889	A443680	TRICHLOROETHENE	0	50	53.5	ug/L	107	2.1
DPS01	Q843889	A443680	VINYL CHLORIDE	0	50	55.6	ug/L	111	6.4
DPS01	Q843889	A443680	BROMOMETHANE	0	50	48.9	ug/L	97.8	6
DPS01	Q843889	A443680	CHLOROBENZENE	0	50	45.9	ug/L	91.9	.2
DPS01	Q843889	A443680	CHLOROETHANE	0	50	48.3	ug/L	96.5	7
DPS01	Q843889	A443680	CHLOROFORM	0	50	55.5	ug/L	111	1.3
S01	Q843889	A443680	CHLOROMETHANE	0	50	48.6	ug/L	97.2	6.1

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
DPS01	Q843889	A443680	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	50	48.5	ug/L	97.1	.2
DPS01	Q843889	A443680	TRANS-1,2-DICHLOROETHENE	0	50	49.6	ug/L	99.1	2.1
DPS01	Q843889	A443680	CIS-1,2-DICHLOROETHENE	0	50	50.2	ug/L	100	3.4
DPS01	Q843889	A443680	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	50	45.6	ug/L	91.2	4.7
DPS01	Q843889	A443680	1,1-DICHLOROETHANE	0	50	55.8	ug/L	112	2.4
DPS01	Q843889	A443680	1,2-DICHLOROPROPANE	0	50	48.5	ug/L	97	3.5
DPS01	Q843889	A443680	CIS-1,3-DICHLOROPROPENE	0	50	55.4	ug/L	111	2
DPS01	Q843889	A443680	TRANS-1,3-DICHLOROPROPENE	0	50	58.9	ug/L	118	2.9
DPS01	Q843889	A443680	ETHYL BENZENE	0	50	! 63	ug/L	126	1.9
DPS01	Q843889	A443680	STYRENE	0	50	63.1	ug/L	126	1
DPS01	Q843889	A443680	1,1,2-TRICHLOROETHANE	0	50	56.8	ug/L	114	10.1
DPS01	Q843889	A443680	1,1,1,2-TETRACHLOROETHANE	0	50	49.2	ug/L	98.5	4.9
DPS01	Q843889	A443680	1,1,2,2-TETRACHLOROETHANE	0	50	60.4	ug/L	121	8.3
DPS01	Q843889	A443680	TETRACHLOROETHENE	0	50	51.5	ug/L	103	6.6
DPS01	Q843889	A443680	TOLUENE	0	50	60.8	ug/L	122	2.6
DPS01	Q843889	A443680	TRICHLOROFLUOROMETHANE	0	50	! 84.7	ug/L	169	.5

Run: R349872 Analyst.: R SHAMP Run Date...: 03-JUN-98 Instrument: GC/MS VOA
ANALYTICAL Reviewer: A BRADBURN Review Date: 09-JUN-98

CCV	Q844369		CHLOROMETHANE	0.3053		0.2503			18
CCV	Q844369		VINYL CHLORIDE	0.2937		0.2556			12.9
CCV	Q844369		BROMOMETHANE	0.2481		0.196			20.9
CCV	Q844369		CHLOROETHANE	0.1911		0.1329			30.4
CCV	Q844369		TRICHLOROFLUOROMETHANE	0.4211		0.4535			7.6
CCV	Q844369		1,1-DICHLOROETHENE	0.3373		0.3684			9.2
CCV	Q844369		DICHLOROMETHANE (METHYLENE CHLORIDE)	0.4513		0.4411			2.2
CCV	Q844369		TRANS-1,2-DICHLOROETHENE	0.3733		0.4142			10.9
CCV	Q844369		1,1-DICHLOROETHANE	0.7473		0.741			.8
CCV	Q844369		CIS-1,2-DICHLOROETHENE	0.394		0.4049			2.7
CCV	Q844369		CHLOROFORM	0.7493		0.7837			4.5
CCV	Q844369		1,1,1-TRICHLOROETHANE	0.5313		0.5891			10.8
CCV	Q844369		CARBON TETRACHLORIDE	0.475		0.5201			9.4
CCV	Q844369		1,2-DICHLOROETHANE	0.5042		0.5294			4.9
CCV	Q844369		BENZENE	0.9751		0.9561			1.9
CCV	Q844369		TRICHLOROETHENE	0.4104		0.4642			13.1
CCV	Q844369		1,2-DICHLOROPROPANE	0.5137		0.4841			5.7
CCV	Q844369		CIS-1,3-DICHLOROPROPENE	0.5242		0.5339			1.8
CCV	Q844369		TOLUENE	0.9749		0.9872			1.2
CCV	Q844369		TRANS-1,3-DICHLOROPROPENE	0.4076		0.4271			4.7
CCV	Q844369		1,1,2-TRICHLOROETHANE	0.3392		0.349			2.8
CCV	Q844369		TETRACHLOROETHENE	0.6376		0.7288			14.3
CCV	Q844369		CHLOROBENZENE	0.9776		1.0303			5.3
CCV	Q844369		1,1,1,2-TETRACHLOROETHANE	0.4975		0.5092			2.3
CCV	Q844369		ETHYL BENZENE	0.416		0.4724			13.5
CCV	Q844369		STYRENE	0.7233		0.8327			15.1
CCV	Q844369		1,1,2,2-TETRACHLOROETHANE	2.0884		2.415			15.6
CCV	Q844369		1,4-DICHLOROBENZENE (P-DICHLOROBENZE	1.5471		1.6683			7.8
CCV	Q844369		1,2-DICHLOROBENZENE (O-DICHLOROBENZE	1.445		1.6445			13.8
CCV	Q844369		DICHLOROETHANE-D4	0.4122		0.387			6.1
CCV	Q844369		TOLUENE-D8	0.8651		0.8258			4.5
CCV	Q844369		4-BROMOFLUOROBENZENE	0.5672		0.6219			9.6
BLA01	Q844370		CHLOROMETHANE			BDL 5	ug/L		
BLA01	Q844370		VINYL CHLORIDE			BDL 5	ug/L		
BLA01	Q844370		BROMOMETHANE			BDL 5	ug/L		
A01	Q844370		CHLOROETHANE			BDL 5	ug/L		

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
BLA01	Q844370		TRICHLOROFLUOROMETHANE			BDL 5	ug/L		
LA01	Q844370		1,1-DICHLOROETHENE			BDL 5	ug/L		
A01	Q844370		DICHLOROMETHANE (METHYLENE CHLORIDE)			BDL 5	ug/L		
BLA01	Q844370		TRANS-1,2-DICHLOROETHENE			BDL 5	ug/L		
BLA01	Q844370		1,1-DICHLOROETHANE			BDL 5	ug/L		
BLA01	Q844370		CIS-1,2-DICHLOROETHENE			BDL 5	ug/L		
BLA01	Q844370		CHLOROFORM			BDL 5	ug/L		
BLA01	Q844370		1,1,1-TRICHLOROETHANE			BDL 5	ug/L		
BLA01	Q844370		CARBON TETRACHLORIDE			BDL 5	ug/L		
BLA01	Q844370		1,2-DICHLOROETHANE			BDL 5	ug/L		
BLA01	Q844370		BENZENE			BDL 5	ug/L		
BLA01	Q844370		TRICHLOROETHENE			BDL 5	ug/L		
BLA01	Q844370		1,2-DICHLOROPROPANE			BDL 5	ug/L		
BLA01	Q844370		CIS-1,3-DICHLOROPROPENE			BDL 5	ug/L		
BLA01	Q844370		TOLUENE			BDL 5	ug/L		
BLA01	Q844370		TRANS-1,3-DICHLOROPROPENE			BDL 5	ug/L		
BLA01	Q844370		1,1,2-TRICHLOROETHANE			BDL 5	ug/L		
BLA01	Q844370		TETRACHLOROETHENE			BDL 5	ug/L		
BLA01	Q844370		CHLOROBENZENE			BDL 5	ug/L		
BLA01	Q844370		1,1,1,2-TETRACHLOROETHANE			BDL 5	ug/L		
BLA01	Q844370		ETHYL BENZENE			BDL 5	ug/L		
BLA01	Q844370		STYRENE			BDL 5	ug/L		
BLA01	Q844370		1,1,2,2-TETRACHLOROETHANE			BDL 5	ug/L		
BLA01	Q844370		1,4-DICHLOROBENZENE (P-DICHLOROBENZE			BDL 5	ug/L		
BLA01	Q844370		1,2-DICHLOROBENZENE (O-DICHLOROBENZE			BDL 5	ug/L		
BLA01	Q844370		DICHLOROETHANE-D4					103	
BLA01	Q844370		TOLUENE-D8					101	
LA01	Q844370		4-BROMOFLUOROBENZENE					102	
S01	Q844371		CARBON TETRACHLORIDE	20		25.9	ug/L	129.5	
LCS01	Q844371		ETHYL BENZENE	20		23.1	ug/L	115.5	
LCS01	Q844371		STYRENE	20		21.5	ug/L	107.5	
LCS01	Q844371		TETRACHLOROETHENE	20		23.6	ug/L	118	
LCS01	Q844371		TRICHLOROFLUOROMETHANE	20		26.8	ug/L	134	
SAMPLE	A443681		See Cert. of Analysis, Rep: 0						
SAMPLE	A443682		See Cert. of Analysis, Rep: 0						
SAMPLE	A443683		See Cert. of Analysis, Rep: 0						
SAMPLE	A443684		See Cert. of Analysis, Rep: 0						
SAMPLE	A443685		See Cert. of Analysis, Rep: 0						
SAMPLE	A443686		See Cert. of Analysis, Rep: 0						
SAMPLE	A443936		See Cert. of Analysis, Rep: 0						
SPI01	Q844375	A443936	BENZENE	0	50	60.4	ug/L	121	
SPI01	Q844375	A443936	CARBON TETRACHLORIDE	0	50	! 64.8	ug/L	130	
SPI01	Q844375	A443936	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	50	47.5	ug/L	95	
SPI01	Q844375	A443936	1,2-DICHLOROETHANE	0	50	60.4	ug/L	121	
SPI01	Q844375	A443936	1,1-DICHLOROETHENE	0	50	48.4	ug/L	96.8	
SPI01	Q844375	A443936	1,1,1-TRICHLOROETHANE	0	50	64.4	ug/L	129	
SPI01	Q844375	A443936	TRICHLOROETHENE	0	50	57.7	ug/L	115	
SPI01	Q844375	A443936	VINYL CHLORIDE	0	50	50.4	ug/L	101	
SPI01	Q844375	A443936	BROMOMETHANE	0	50	51.9	ug/L	104	
SPI01	Q844375	A443936	CHLOROBENZENE	0	50	49.9	ug/L	99.8	
SPI01	Q844375	A443936	CHLOROETHANE	0	50	50.9	ug/L	102	
SPI01	Q844375	A443936	CHLOROFORM	0	50	59.3	ug/L	119	
SPI01	Q844375	A443936	CHLOROMETHANE	0	50	41.8	ug/L	83.6	
I01	Q844375	A443936	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	50	49.7	ug/L	99.3	

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QC Type	Lab ID	Source	Parameter	True/Sampl	Spike Val	Observed	Units	% Rec	RPD
SPI01	Q844375	A443936	TRANS-1,2-DICHLOROETHENE	0	50	50.7	ug/L	101	
I01	Q844375	A443936	CIS-1,2-DICHLOROETHENE	0	50	51	ug/L	102	
SPI01	Q844375	A443936	DICHLOROMETHANE (METHYLE"E CHLORIDE)	0	50	46.9	ug/L	93.7	
SPI01	Q844375	A443936	1,1-DICHLOROETHANE	0	50	55.7	ug/L	111	
SPI01	Q844375	A443936	1,2-DICHLOROPROPANE	0	50	47.9	ug/L	95.7	
SPI01	Q844375	A443936	CIS-1,3-DICHLOROPROPENE	0	50	54.8	ug/L	110	
SPI01	Q844375	A443936	TRANS-1,3-DICHLOROPROPENE	0	50	57.4	ug/L	115	
SPI01	Q844375	A443936	ETHYL BENZENE	0	50	! 70.2	ug/L	140	
SPI01	Q844375	A443936	STYRENE	0	50	! 71	ug/L	142	
SPI01	Q844375	A443936	1,1,2-TRICHLOROETHANE	0	50	54	ug/L	108	
SPI01	Q844375	A443936	1,1,1,2-TETRACHLOROETHANE	0	50	55.2	ug/L	110	
SPI01	Q844375	A443936	1,1,2,2-TETRACHLOROETHANE	0	50	57	ug/L	114	
SPI01	Q844375	A443936	TETRACHLOROETHENE	0	50	! 62.4	ug/L	125	
SPI01	Q844375	A443936	TOLUENE	0	50	59.6	ug/L	119	
SPI01	Q844375	A443936	TRICHLOROFLUOROMETHANE	0	50	! 95.3	ug/L	191	
DPS01	Q844376	A443936	BENZENE	0	50	61.1	ug/L	122	1.2
DPS01	Q844376	A443936	CARBON TETRACHLORIDE	0	50	63.5	ug/L	127	2
DPS01	Q844376	A443936	1,4-DICHLOROBENZENE (P-DICHLOROBENZE	0	50	49.4	ug/L	98.9	4
DPS01	Q844376	A443936	1,2-DICHLOROETHANE	0	50	60.4	ug/L	121	0
DPS01	Q844376	A443936	1,1-DICHLOROETHENE	0	50	46.8	ug/L	93.6	3.4
DPS01	Q844376	A443936	1,1,1-TRICHLOROETHANE	0	50	63.4	ug/L	127	1.7
DPS01	Q844376	A443936	TRICHLOROETHENE	0	50	57.4	ug/L	115	.6
DPS01	Q844376	A443936	VINYL CHLORIDE	0	50	52.1	ug/L	104	3.1
DPS01	Q844376	A443936	BROMOMETHANE	0	50	63.3	ug/L	127	19.8
DPS01	Q844376	A443936	CHLOROBENZENE	0	50	47.3	ug/L	94.7	5.3
DPS01	Q844376	A443936	CHLOROETHANE	0	50	53.6	ug/L	107	5.2
DPS01	Q844376	A443936	CHLOROFORM	0	50	58.8	ug/L	118	.9
PS01	Q844376	A443936	CHLOROMETHANE	0	50	43.7	ug/L	87.4	4.4
DPS01	Q844376	A443936	1,2-DICHLOROBENZENE (O-DICHLOROBENZE	0	50	54.3	ug/L	109	9
DPS01	Q844376	A443936	TRANS-1,2-DICHLOROETHENE	0	50	50.1	ug/L	100	1.2
DPS01	Q844376	A443936	CIS-1,2-DICHLOROETHENE	0	50	50.5	ug/L	101	1
DPS01	Q844376	A443936	DICHLOROMETHANE (METHYLENE CHLORIDE)	0	50	46.8	ug/L	93.7	0
DPS01	Q844376	A443936	1,1-DICHLOROETHANE	0	50	56.3	ug/L	113	1
DPS01	Q844376	A443936	1,2-DICHLOROPROPANE	0	50	50.3	ug/L	101	5
DPS01	Q844376	A443936	CIS-1,3-DICHLOROPROPENE	0	50	56.1	ug/L	112	2.3
DPS01	Q844376	A443936	TRANS-1,3-DICHLOROPROPENE	0	50	57	ug/L	114	.7
DPS01	Q844376	A443936	ETHYL BENZENE	0	50	62.2	ug/L	124	12
DPS01	Q844376	A443936	STYRENE	0	50	55.5	ug/L	111	24.5
DPS01	Q844376	A443936	1,1,2-TRICHLOROETHANE	0	50	58.1	ug/L	116	7.4
DPS01	Q844376	A443936	1,1,1,2-TETRACHLOROETHANE	0	50	57.1	ug/L	114	3.5
DPS01	Q844376	A443936	1,1,2,2-TETRACHLOROETHANE	0	50	62.5	ug/L	125	9.3
DPS01	Q844376	A443936	TETRACHLOROETHENE	0	50	! 60.4	ug/L	121	3.3
DPS01	Q844376	A443936	TOLUENE	0	50	59.2	ug/L	118	.7
DPS01	Q844376	A443936	TRICHLOROFLUOROMETHANE	0	50	! 86.4	ug/L	173	9.8

QC Sample Comments

! Outside Lab Generated Control Limits
< Less Than Lower Detection Limit
BDL Below Detection Limit

Approved by: P.K. Spence