

*NPDES Compliance File
MORROW B.*



765-349-3413
Fax 765-342-2311

February 11, 2008

CERTIFIED MAIL # 7006 2150 0005 5611 5877

Indiana Department of Environmental Management
Ms. Beth Tallon, Chief
Industrial NPDES Permit Section
Office Water Quality
100 North Senate Ave.
Indianapolis, IN 46204

2008 FEB 13 A 11:36
IDEM
OFFICE OF
WATER QUALITY

RE: NPDES Noncompliance, Permit No. IN0004693
Incident No. 2008-01229

Dear Ms. Tallon:

Please find enclosed sample analyses for the IPL Eagle Valley Generating Station Plant, NPDES Permit No. IN0004693, - Incident No. 2008-01229. The Incident occurred on January 30, 2008. Reference the follow up written notification (letter attached) submitted to your office on February 5, 2008.

Reference the enclosed documents:

- * Aerial view of the Eagle Valley Generating Station for the sample locations of the analyses being submitted.
- * IPL - Eagle Valley Summary Sheet of Analyses.
- * Laboratory Analyses Sheets.

Also, the following is a summary of the dates the samples were taken, the time sampling started, the sample point number and location (refer. aerial view), and the laboratory sample identification numbers -

Date: Sample Point Number and Location: Laboratory Sample Number:

WATER SAMPLES -

01-30-08	#1 - Up Stream at Circulating Water Inlet	A797257
Samples	#2 - Discharge Canal after Release	A797255
@0750	#3 - White River at Boat Ramp	A797256

01-30-08	#1 – Up Stream at Circulating Water Inlet	A797260
	#2 – Discharge Canal after Release	A797258
@1140	#3 – White River at Boat Ramp	A797259
01-30-08	#4 – Field South of Plant	A797261
@1115		
01-30-08	#1 – Up Stream at Circulating Water Inlet	A797262
@1450	#2 – Discharge Canal after Release	A797263
& 1550	#3 – White River at Boat Ramp	A797264
01-31-08	#1 – Up Stream at Circulating Water Inlet	A797419
	#2 – Discharge Canal after Release	A797418
@1130	#3 – White River at Boat Ramp	A797417

SEDIMENT SAMPLES –

01-30-08	#1 – Up Stream at Circulating Water Inlet (@1300)	A797265
	#2 – Discharge Canal after Release (@1550)	A797267
	#3 – White River at Boat Ramp (@1140)	A797266
	#5 – Material at “E” Levee Breach (@1550)	A797268
1-31-08	#2 – Discharge Canal after Release (@1130)	A797424
	#3 – White River at Boat Ramp (@1130)	A797423

Footnotes -

The TSS and Metal Analyses on the water samples were performed by a contract lab.

The TCLP - Metal Analyses on the sediment samples were performed by a contract lab.

The pH analyses on the water samples were performed by IPL- Eagle Valley lab.

A visual inspection of the West Fork of the White River indicated no fish kill and no apparent harm to the environment or aquatic life.

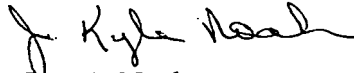
Nothing in this letter is intended to be an admission of liability regarding this incident or a waiver of any available rights of IPL.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and

belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact me at (765) 349-3472.

Sincerely,



J. Kyle Noah

Eagle Valley Environmental Team Leader

Encls:

xc: David Cage – IDEM Emergency Response Section,
On-Scene Coordinator.

Cert. Mail #7006 2150 0005 5611 5884

Dr. Wayne C. Faatz – IDNR - Division of Fish & Wildlife,
Contaminants Program Coordinator.

Cert. Mail #7006 2150 0005 5611 5907

Jennifer Campbell-Allison – IDNR - Division of Fish & Wildlife/
Fisheries/Contaminants Restoration Biologist.

Cert. Mail #7006 2150 0005 5611 5891



February 5, 2008

CERTIFIED MAIL # 7006 2150 0005 5611 5860

Indiana Department of Environmental Management
Ms. Beth Tallon, Chief
Industrial NPDES Permit Section
Office Water Quality
100 North Senate Ave.
Indianapolis, IN 46204

RE: NPDES Noncompliance, Permit No. IN0004693
Incident No. 2008-01229

Dear Ms. Tallon:

As required by the IC Rules and the IPL Eagle Valley Generating Station Plant NPDES Permit, No. IN0004693 attached is a follow up written report for the Incident No. 2008-01229.

Location of spill/ release: IPL Eagle Valley Generating Station
4040 Blue Bluff Road
Martinsville, IN 46151

Contact information: Kyle Noah, Plant Environmental Leader
IPL Eagle Valley Generation Station
4040 Blue Bluff Road
Martinsville, IN 46151
765-349-3472

or

Dwayne Burke, Director, Environmental Affairs
Indianapolis Power & Light
One Monument Circle
Indianapolis, IN 46204
317-501-0278

Indianapolis Power & Light Company

Eagle Valley Generating Station 4040 Blue Bluff Road Martinsville, IN 46151

Time of spill/release: January 30, 2008, at 02:20 a.m.

Substance released: Ash sluice water

Amount released: Approximately 30 million gallons

Source of spill/
release: Ash Pond external levee breached at the Eagle Valley
Generating Station prompting the release.

Name of waters: Sluice water was initially released to the IPL discharge canal
which then enters the West Fork of the White River.

Agencies notified: Timely reports were made to IDEM, DNR, National Response
Center, and the Morgan County Local Emergency Planning
Commission.

Agencies responding: IDEM – David Cage, Emergency Response Section, On-Scene
Coordinator.

IDEM – Ron Pearson, Water Inspector (NPDES).

IDNR – David Reese, Conservation Officer.

Spill response: (1) Plant Corrective Actions – partial list

- a. IPL took Ash Sluice Pumps Out of Service and redirected Outfall Pump flow to an alternate site.
- b. IPL called in additional plant personnel to assist with corrective actions.
- c. IPL called in Out of State Contractor that constructed the Levee.
- d. Contractor ordered Heavy Equipment to plug the breach.
- e. IPL called in Out of State Engineering Contractor that designed and oversaw the levee construction.
- f. Contractor plugged levee breach.

(2) Timely notifications made to appropriate agencies;

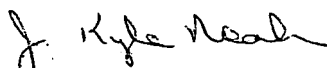
(3) External levee plugged on January 30, 2008 at 1350.

Additional action: IDEM, DNR, and IPL representatives met to discuss an action plan
to verify that the environment had not been harmed. It was
determined that IPL would take samples every 4 hours upstream
and downstream from the levee breach until the breach was
plugged. Also, sample after the levee was successfully plugged and

again the following day. Samples (both water quality and sediments) would be analyzed for pH, solids, and metals. Results will be communicated to IDEM and IDNR as soon as reasonable.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



J. Kyle Noah

Eagle Valley Environmental Team Leader

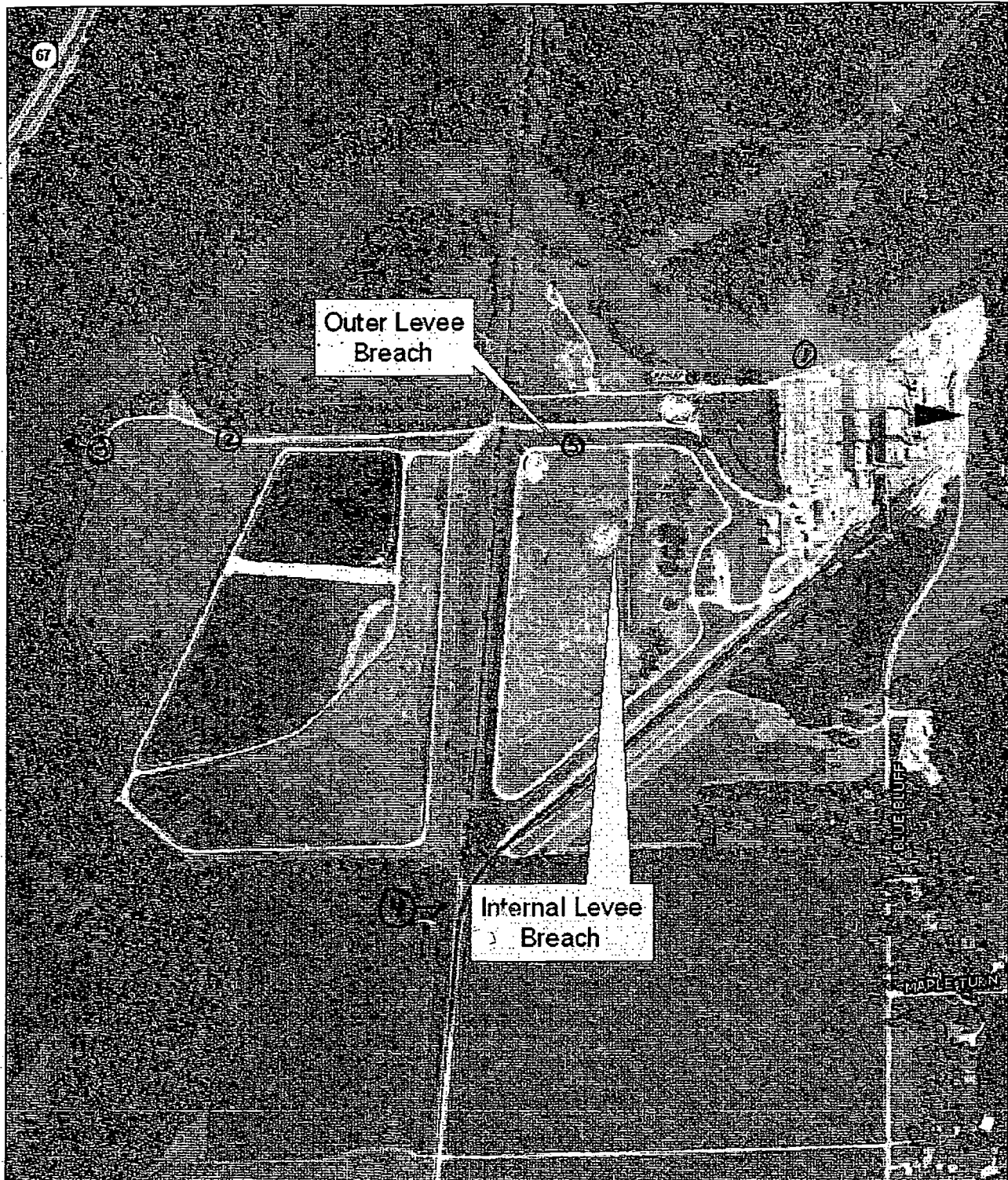
xc: Mr. David Cage – IDEM Emergency Response Section,
On-Scene Coordinator. Cert. Mail #7006 2150 0005 5611 5846
Dr. Wayne C. Faatz – Division of Fish & Wildlife,
Contaminants Program Coordinator.
Cert. Mail #7006 2150 0005 5611 5853
Ms. Jennifer Campbell-Allison – IDNR, Division of Fish & Wildlife, Restoration
Biologist. Cert. Mail # 7004 2510 0002 9448 9926

N



IDEM ER ArcMap
IPL - 2007-02-093
Morgan Co

0 255 510 1,020 Meters



SAMPLES FOR LEVEE BREACH AT IPL EAGLE VALLEY

(SUMMARY SHEET)

ORGANIZED BY SAMPLE LOCATION

Dection Limit:	Sample ID #	pH	TSS mg/l	METALS									
				As ug/L 10	Cd ug/L 5	Cr ug/L 10	Cu ug/L 10	Pb ug/L 10	Ni ug/L 5	Se ug/L 10	Zn ug/L 20	Hg ug/L 0.2	Cr 6 + mg/L 0.01
Upstream from spill, Sample point # 1, 01/30/08 07:50am	A797257	8.05	15	BDL	BDL	BDL	BDL	BDL	BDL	BDL	30	BDL	BDL
Upstream from spill, Sample point # 1, 01/30/08 11:40am	A797260	8.06	23	BDL	BDL	BDL	BDL	BDL	BDL	BDL	25	BDL	BDL
Upstream from spill, Sample point # 1, 01/30/08 02:50pm	A797262	8.13	18	BDL	BDL	BDL	BDL	BDL	BDL	BDL	23	BDL	BDL
Upstream from spill, Sample point # 1, 01/31/08 11:30am	A797419	7.98	16	BDL	BDL	BDL	BDL	BDL	BDL	BDL	25	BDL	BDL
Canal down from spill, Sample point # 2, 01/30/08 7:50am	A797255	8.05	220	31	BDL	10	17	21	27	BDL	90	BDL	BDL
Canal down from spill, Sample point # 2, 01/30/08 11:40am	A797258	8.04	71	BDL	BDL	BDL	10	BDL	7.6	BDL	35	BDL	BDL
Canal down from spill, Sample point # 2, 01/30/08 3:50pm	A797263	8.05	42	BDL	BDL	BDL	BDL	BDL	BDL	BDL	28	BDL	BDL
Canal down from spill, Sample point # 2, 01/31/08 11:30am	A797418	7.95	30	BDL	BDL	BDL	BDL	BDL	5.9	BDL	29	BDL	BDL
River ramp down from spill, Sample point # 3, 01/30/08 07:50am	A797256	8.13	120	BDL	BDL	BDL	13	15	20	BDL	74	BDL	BDL
River ramp down from spill, Sample point # 3, 01/30/08 11:40am	A797259	7.94	140	BDL	BDL	BDL	BDL	BDL	11	11	40	BDL	BDL
River ramp down from spill, Sample point # 3, 01/30/08 03:50pm	A797264	8.10	34	BDL	BDL	BDL	BDL	BDL	5.2	BDL	29	BDL	BDL
River ramp down from spill, Sample point # 3, 01/31/08 01:130am	A797417	7.98	17	BDL	BDL	BDL	BDL	BDL	BDL	BDL	25	BDL	BDL
FIELD, Sample point # 4, 01/30/08 11:15am	A797261		550	180	BDL	41	31	57	66	BDL	22	BDL	30

METALS EXTRACTED BY TCLP FROM SEDIMENT

	As ug/L 50	Cd ug/L 25	Cr ug/L 50	Cu ug/L 50	Ni ug/L 25	Pb ug/L 50	Se ug/L 50	Zn ug/L 100	Hg ug/L 2	Cr 6 + mg/L 10
Sediment sample Upstream of pond Breach 01/30/08 1:00pm	BDL	BDL	BDL	BDL	54	BDL	BDL	470	BDL	BDL
Sediment sample from E pond Breach 01/30/08 3:50 pm	56	BDL	BDL	BDL	27	BDL	BDL	200	BDL	BDL
Sediment sample from Canal below Breach 01/30/08 3:50pm	67	BDL	BDL	BDL	41	BDL	BDL	170	BDL	BDL
Sediment sample at boat ramp in river 01/30/08 11:40 am	BDL	BDL	BDL	BDL	54	BDL	BDL	290	BDL	BDL
Sediment sample from Canal below Breach 01/31/08 11:30	BDL	BDL	BDL	BDL	BDL	BDL	BDL	110	BDL	BDL
Sediment sample at boat ramp in river 01/31/08 11:30 am	BDL	BDL	BDL	BDL	26	BDL	BDL	180	BDL	BDL



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 30-JAN-08	Project	Lab ID A797257
	Completed 31-JAN-08	PO Number WAIVER	
	Printed 01-FEB-08	Sampled 30-JAN-08 07:50	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
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Sample Description CLIENT ID: CIRC WATER PUMP MATRIX TYPE: NON-SPECIFIC WATER SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

FAA OR ICP ACID DIGESTION EPA 200.0			
Analyst: J. KRAMER		Analysis Date: 30-JAN-08 19:00 Instrument: PREP Test: P129.2.0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC ICP EPA 200.7 REV. 4.4			
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:09 Instrument: ICP Test: M403.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.010	mg/L

CADMIUM ICP EPA 200.7 REV. 4.4			
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:09 Instrument: ICP Test: M408.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP EPA 200.7 REV. 4.4			
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:09 Instrument: ICP Test: M410.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797257 CIRC WATER PUMP

COPPER ICP EPA 200.7 REV. 4.4

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:09

Instrument: ICP

Test: M412.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

LEAD ICP EPA 200.7 REV. 4.4

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:09

Instrument: ICP

Test: M416.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

NICKEL ICP EPA 200.7 REV. 4.4

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:09

Instrument: ICP

Test: M422.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

SELENIUM ICP EPA 200.7 REV. 4.4

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:09

Instrument: ICP

Test: M428.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

ZINC ICP EPA 200.7 REV. 4.4

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:09

Instrument: ICP

Test: M439.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
ZINC	0.030	0.020	mg/L

MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 04:30

Instrument: PREP

Test: P131.2.0

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

MERCURY MANUAL COLD VAPOR BY AAS EPA 245.5

NELAC-Y

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 07:28

Instrument: CVAA

Test: M420.1.0

Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0 P131.2.0

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

HEXAVALENT CHROMIUM SM 3500-CR D 18TH ED

NELAC-Y

Analyst: E. SOTKIEWICZ

Analysis Date: 31-JAN-08 10:00

Test: M410.6.0



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797257 CIRC WATER PUMP

Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	BDL	0.01	mg/L
Sample was reanalyzed out of hold time due to possible error on first analysis.			

TOTAL SUSPENDED SOLIDS DRIED AT 103-105 DEGREES C SM 2540 D, 19TH ED		NELAC Y	
Analyst: T. PESTER	Analysis Date: 30-JAN-08 19:40	Test: G403.8.0	
Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	15	1	mg/L

Sample Comments

BDL: Below Detection Limit

Sample was received on ice at temperature 5.6 C.

Sample chain of custody number 52802.

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

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01

Approved by: SCOTT BRYAN 01-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 30-JAN-08	Project	Lab ID A797255
	Completed 31-JAN-08	PO Number WAIVER	
	Printed 01-FEB-08	Sampled 30-JAN-08 07:50	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
--	--

Sample Description CLIENT ID: CANAL NPDES POINT MATRIX TYPE: NON-SPECIFIC WATER SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

FAA OR ICP ACID DIGESTION EPA 200.0			
Analyst: J. KRAMER		Analysis Date: 30 JAN-08 19:00	
		Instrument: PREP	
		Test: P129.2.0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC ICP EPA 200.7 REV. 4.4			NELAC Y
Analyst: J. KRAMER		Analysis Date: 31 JAN-08 02:25	
		Instrument: ICP	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0		Test: M403.3.0	
Parameter	Result	Det. Limit	Units
ARSENIC	0.031	0.010	mg/L

CADMIUM ICP EPA 200.7 REV. 4.4			NELAC Y
Analyst: J. KRAMER		Analysis Date: 31 JAN-08 02:25	
		Instrument: ICP	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0		Test: M408.3.0	
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP EPA 200.7 REV. 4.4			NELAC Y
Analyst: J. KRAMER		Analysis Date: 31 JAN-08 02:25	
		Instrument: ICP	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0		Test: M410.3.0	
Parameter	Result	Det. Limit	Units
CHROMIUM	0.010	0.010	mg/L



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797255 CANAL NPDES POINT

COPPER ICP EPA 200.7 REV. 4.4

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:25

Instrument: ICP

Test: M412.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
COPPER	0.017	0.010	mg/L

LEAD ICP EPA 200.7 REV. 4.4

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:25

Instrument: ICP

Test: M416.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
LEAD	0.021	0.010	mg/L

NICKEL ICP EPA 200.7 REV. 4.4

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:25

Instrument: ICP

Test: M422.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
NICKEL	0.027	0.0050	mg/L

SELENIUM ICP EPA 200.7 REV. 4.4

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:25

Instrument: ICP

Test: M428.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

ZINC ICP EPA 200.7 REV. 4.4

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:25

Instrument: ICP

Test: M439.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
ZINC	0.090	0.020	mg/L

MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 04:30

Instrument: PREP

Test: P131.2.0

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

MERCURY, MANUAL COLD VAPOR BY AAS EPA 245.5

NELAC-Y

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 07:28

Instrument: CVAA

Test: M420.1.0

Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0 P131.2.0

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

HEXAVALENT CHROMIUM SM 3500-CR D 18TH ED

NELAC-Y

Analyst: E. SOTKIEWICZ

Analysis Date: 31-JAN-08 10:00

Test: M410.6.0



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797255 CANAL NPDES POINT

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

Sample was reanalyzed out of hold time due to possible error on first analysis.

The concentration due to the color and turbidity of the original sample was subtracted out.

TOTAL SUSPENDED SOLIDS DRIED AT 103-105 DEGREES C SM 2540 D, 19TH ED.		NELAC Y	
Analyst: T. PESTER		Analysis Date: 30-JAN-08 19:40	
Test: G403:8.0			
Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	220	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 5.6 C.
Sample chain of custody number 52802.

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

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01

Scott A Bryan

Approved by: SCOTT BRYAN 01-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 30-JAN-08	Project	Lab ID A797256
	Completed 31-JAN-08	PO Number WAIVER	
	Printed 01-FEB-08	Sampled 30-JAN-08 07:50	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
--	--

Sample Description CLIENT ID: BOAT RAMP MATRIX TYPE: NON-SPECIFIC WATER SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

FAA OR ICP ACID DIGESTION EPA 200.0			
Analyst: J. KRAMER		Analysis Date: 30-JAN-08 19:00	
		Instrument: PREP	
		Test: P129.2.0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC ICP EPA 200.7 REV. 4.4			NELAC-Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:29	
		Instrument: ICP	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0		Test: M403.3.0	
Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.020	mg/L
Detection limit raised due to matrix interference.			

CADMIUM ICP EPA 200.7 REV. 4.4			NELAC-Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:29	
		Instrument: ICP	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0		Test: M408.3.0	
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP EPA 200.7 REV. 4.4			NELAC-Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:29	
		Instrument: ICP	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0		Test: M410.3.0	
Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797256 BOAT RAMP

COPPER ICP EPA 200.7 REV. 4.4		NELAC:Y	
Analyst: J. KRAMER	Analysis Date: 31-JAN-08 02:29	Instrument: ICP	Test: M412.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
COPPER	0.013	0.010	mg/L

LEAD ICP EPA 200.7 REV. 4.4		NELAC:Y	
Analyst: J. KRAMER	Analysis Date: 31-JAN-08 02:29	Instrument: ICP	Test: M416.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
LEAD	0.015	0.010	mg/L

NICKEL ICP EPA 200.7 REV. 4.4		NELAC:Y	
Analyst: J. KRAMER	Analysis Date: 31-JAN-08 02:29	Instrument: ICP	Test: M422.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
NICKEL	0.020	0.0050	mg/L

SELENIUM ICP EPA 200.7 REV. 4.4		NELAC:Y	
Analyst: J. KRAMER	Analysis Date: 31-JAN-08 02:29	Instrument: ICP	Test: M428.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.010	mg/L

ZINC ICP EPA 200.7 REV. 4.4		NELAC:Y	
Analyst: J. KRAMER	Analysis Date: 31-JAN-08 02:29	Instrument: ICP	Test: M439.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ZINC	0.074	0.020	mg/L

MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0			
Analyst: W. WATNESS	Analysis Date: 31-JAN-08 04:30	Instrument: PREP	Test: P131.2.0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY MANUAL COLD VAPOR BY AAS EPA 245.5		NELAC:Y	
Analyst: W. WATNESS	Analysis Date: 31-JAN-08 07:28	Instrument: CVAA	Test: M420.1.0
Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0 P131.2.0			
Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

HEXAVALENT CHROMIUM SM 3500-CR D 18TH ED		NELAC:Y	
Analyst: E. SOTKIEWICZ	Analysis Date: 31-JAN-08 10:00	Test: M410.6.0	



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797256 BOAT RAMP

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

Sample was reanalyzed out of hold time due to possible error on first analysis.

The concentration due to the color and turbidity of the original sample was subtracted out.

TOTAL SUSPENDED SOLIDS DRIED AT 103-105 DEGREES C SM 2540 D, 19TH ED:		NELAC Y:	
Analyst: T. PESTER	Analysis Date: 30-JAN-08 19:40	Test: G403.8.0	
Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	120	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 5.6 C.
Sample chain of custody number 52802.

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

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01

Approved by: SCOTT BRYAN 01-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 30-JAN-08	Project	Lab ID A797260
	Completed 31-JAN-08	PO Number WAIVER	
	Printed 01-FEB-08	Sampled 30-JAN-08 11:40	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
--	--

Sample Description CLIENT ID: CIRC WATER PUMP MATRIX TYPE: NON-SPECIFIC WATER SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

FAA OR ICP ACID DIGESTION EPA 200.0			
Analyst: J. KRAMER		Analysis Date: 30-JAN-08 19:00	
		Instrument: PREP	
		Test: P129.2.0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:38	
		Instrument: ICP	
		Test: M403.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.010	mg/L

CADMIUM ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:38	
		Instrument: ICP	
		Test: M408.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:38	
		Instrument: ICP	
		Test: M410.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L



COPPER ICP EPA 200.7 REV. 4.4			NELAC:Y
Analyst: J. KRAMER	Analysis Date: 31-JAN-08 02:38	Instrument: ICP	Test: M412.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
COPPER	BDL	0.010	mg/L

LEAD ICP EPA 200.7 REV. 4.4			NELAC:Y
Analyst: J. KRAMER	Analysis Date: 31-JAN-08 02:38	Instrument: ICP	Test: M416.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
LEAD	BDL	0.010	mg/L

NICKEL ICP EPA 200.7 REV. 4.4			NELAC:Y
Analyst: J. KRAMER	Analysis Date: 31-JAN-08 02:38	Instrument: ICP	Test: M422.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.0050	mg/L

SELENIUM ICP EPA 200.7 REV. 4.4			NELAC:Y
Analyst: J. KRAMER	Analysis Date: 31-JAN-08 02:38	Instrument: ICP	Test: M428.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.010	mg/L

ZINC ICP EPA 200.7 REV. 4.4			NELAC:Y
Analyst: J. KRAMER	Analysis Date: 31-JAN-08 02:38	Instrument: ICP	Test: M439.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ZINC	0.025	0.020	mg/L

MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0			
Analyst: W. WATNESS	Analysis Date: 31-JAN-08 04:30	Instrument: PREP	Test: P131.2.0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY, MANUAL COLD VAPOR BY AAS EPA 245.5			NELAC:Y
Analyst: W. WATNESS	Analysis Date: 31-JAN-08 07:28	Instrument: CVAA	Test: M420.1.0
Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0 P131.2.0			
Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

HEXAVALENT CHROMIUM SM 3500-CR D 18TH ED			NELAC:Y
Analyst: E. SOTKIEWICZ	Analysis Date: 31-JAN-08 10:00		Test: M410.6.0



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797260 CIRC WATER PUMP

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

The concentration due to the color and turbidity of the original sample was subtracted out.

TOTAL SUSPENDED SOLIDS DRIED AT 103-105 DEGREES C SM 2540 D, 19TH ED.			NELAC Y
Analyst: T. PESTER	Analysis Date: 30-JAN-08 19:40	Test: G403.8.0	
Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	23	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 5.6 C.
Sample chain of custody number 52802.

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

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01

Approved by: SCOTT BRYAN 01-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 30-JAN-08	Project	Lab ID A797258
	Completed 31-JAN-08	PO Number WAIVER	
	Printed 01-FEB-08	Sampled 30-JAN-08 11:40	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
--	--

Sample Description CLIENT ID: CANAL NPDES POINT MATRIX TYPE: NON-SPECIFIC WATER SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

FAA OR ICP ACID DIGESTION EPA 200.0			
Analyst: J. KRAMER		Analysis Date: 30-JAN-08 19:00 Instrument: PREP	
Test: P129.2.0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:32 Instrument: ICP	
Test: M403.3.0			
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.010	mg/L

CADMIUM ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:32 Instrument: ICP	
Test: M408.3.0			
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:32 Instrument: ICP	
Test: M410.3.0			
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

**COPPER ICP EPA 200.7 REV. 4.4**

NELAC.Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:32

Instrument: ICP

Test: M412.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

LEAD ICP EPA 200.7 REV. 4.4

NELAC.Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:32

Instrument: ICP

Test: M416.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

NICKEL ICP EPA 200.7 REV. 4.4

NELAC.Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:32

Instrument: ICP

Test: M422.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
NICKEL	0.0076	0.0050	mg/L

SELENIUM ICP EPA 200.7 REV. 4.4

NELAC.Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:32

Instrument: ICP

Test: M428.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

ZINC ICP EPA 200.7 REV. 4.4

NELAC.Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:32

Instrument: ICP

Test: M439.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
ZINC	0.035	0.020	mg/L

MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 04:30

Instrument: PREP

Test: P131.2.0

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

MERCURY, MANUAL COLD VAPOR BY AAS EPA 245.5

NELAC.Y

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 07:28

Instrument: CVAA

Test: M420.1.0

Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0 P131.2.0

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

HEXAVALENT CHROMIUM SM 3500-CR D 18TH ED

NELAC.Y

Analyst: E. SOTKIEWICZ

Analysis Date: 31-JAN-08 10:00

Test: M410.6.0



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797258 CANAL NPDES POINT

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

The concentration due to the color and turbidity of the original sample was subtracted out.

TOTAL SUSPENDED SOLIDS DRIED AT 103-105 DEGREES C SM 2540 D, 19TH ED.		NELAC Y	
Analyst: T. PESTER	Analysis Date: 30-JAN-08 19:40	Test: G403.8.0	

Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	71	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 5.6 C.
Sample chain of custody number 52802.

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without the written approval of the lab.

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01

Approved by: SCOTT BRYAN 01-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 30-JAN-08	Project	Lab ID A797259
	Completed 31-JAN-08	PO Number WAIVER	
	Printed 01-FEB-08	Sampled 30-JAN-08 11:40	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
--	--

Sample Description CLIENT ID: BOAT RAMP MATRIX TYPE: NON-SPECIFIC WATER SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

FAA OR ICP ACID DIGESTION EPA 200.0			
Analyst: J. KRAMER		Analysis Date: 30-JAN-08 19:00	
		Instrument: PREP	
		Test: P129.2.0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 31 JAN-08 02:35	
		Instrument: ICP	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0		Test: M403.3.0	
Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.010	mg/L

CADMIUM ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 31 JAN-08 02:35	
		Instrument: ICP	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0		Test: M408.3.0	
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:35	
		Instrument: ICP	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0		Test: M410.3.0	
Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797259 BOAT RAMP

COPPER ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:35 Instrument: ICP

Test: M412.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

LEAD ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:35 Instrument: ICP

Test: M416.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

NICKEL ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:35 Instrument: ICP

Test: M422.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

SELENIUM ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:35 Instrument: ICP

Test: M428.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
SELENIUM	0.011	0.010	mg/L

ZINC ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:35 Instrument: ICP

Test: M439.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
ZINC	0.040	0.020	mg/L

MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 04:30 Instrument: PREP

Test: P131.2.0

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

MERCURY MANUAL COLD VAPOR BY AAS EPA 245.5

NELAC:Y

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 07:28 Instrument: CVAA

Test: M420.1.0

Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0 P131.2.0

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

HEXAVALENT CHROMIUM SM 3500-CR D 18TH ED

NELAC:Y

Analyst: E. SOTKIEWICZ

Analysis Date: 31-JAN-08 10:00

Test: M410.6.0



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797259 BOAT RAMP

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

The concentration due to the color and turbidity of the original sample was subtracted out.

TOTAL SUSPENDED SOLIDS DRIED AT 103-105 DEGREES C SM 2540 D, 19TH ED.		NELAC Y	
Analyst: T. PESTER		Analysis Date: 30-JAN-08 19:40	
		Test: G403.8.0	
Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	140	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 5.6 C.
Sample chain of custody number 52802.

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Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01

Approved by: SCOTT BRYAN 01-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 30-JAN-08	Project	Lab ID A797262
	Completed 31-JAN-08	PO Number WAIVER	
	Printed 01-FEB-08	Sampled 30-JAN-08 14:50	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
--	--

Sample Description CLIENT ID: CIRC WATER PUMP MATRIX TYPE: NON-SPECIFIC WATER SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

FAA OR ICP ACID DIGESTION EPA 200.0			
Analyst: J. KRAMER		Analysis Date: 30-JAN-08 19:00 Instrument: PREP Test: P129.2.0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC ICP EPA 200.7 REV. 4.4			NELAC: Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:45 Instrument: ICP Test: M403.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.010	mg/L

CADMIUM ICP EPA 200.7 REV. 4.4			NELAC: Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:45 Instrument: ICP Test: M408.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP EPA 200.7 REV. 4.4			NELAC: Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:45 Instrument: ICP Test: M410.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797262 CIRC WATER PUMP

COPPER ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:45

Instrument: ICP

Test: M412.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

LEAD ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:45

Instrument: ICP

Test: M416.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

NICKEL ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:45

Instrument: ICP

Test: M422.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

SELENIUM ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:45

Instrument: ICP

Test: M428.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

ZINC ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:45

Instrument: ICP

Test: M439.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
ZINC	0.023	0.020	mg/L

MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 04:30

Instrument: PREP

Test: P131.2.0

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

MERCURY, MANUAL COLD VAPOR BY AAS EPA 245.5

NELAC:Y

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 07:28

Instrument: CVAA

Test: M420.1.0

Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0 P131.2.0

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

HEXAVALENT CHROMIUM SM 3500-CR D 18TH ED

NELAC:Y

Analyst: E. SOTKIEWICZ

Analysis Date: 31-JAN-08 10:00

Test: M410.6.0



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797262 CIRC WATER PUMP

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

The concentration due to the color and turbidity of the original sample was subtracted out.

TOTAL SUSPENDED SOLIDS DRIED AT 103-105 DEGREES C SM 2540 D, 19TH ED.		NELAC Y	
Analyst: T. PESTER		Analysis Date: 30-JAN-08 19:40	
		Test: G403.8.0	
Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	18	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 5.6 C.
Sample chain of custody number 52802.

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without the written approval of the lab.

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01

Approved by: SCOTT BRYAN 01-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 30-JAN-08	Project	Lab ID A797263
	Completed 31-JAN-08	PO Number WAIVER	
	Printed 01-FEB-08	Sampled 30-JAN-08 15:50	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
--	--

Sample Description CLIENT ID: CANAL NPDES POINT MATRIX TYPE: NON-SPECIFIC WATER SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

FAA OR ICP ACID DIGESTION EPA 200.0			
Analyst: J. KRAMER		Analysis Date: 30-JAN-08 19:00 Instrument: PREP Test: P129.2.0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:48 Instrument: ICP Test: M403.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.010	mg/L

CADMIUM ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:48 Instrument: ICP Test: M408.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:48 Instrument: ICP Test: M410.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

**COPPER ICP EPA 200.7 REV. 4.4**

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:48

Instrument: ICP

Test: M412.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

LEAD ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:48

Instrument: ICP

Test: M416.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

NICKEL ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:48

Instrument: ICP

Test: M422.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

SELENIUM ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:48

Instrument: ICP

Test: M428.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

ZINC ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:48

Instrument: ICP

Test: M439.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
ZINC	0.028	0.020	mg/L

MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 04:30

Instrument: PREP

Test: P131.2.0

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

MERCURY MANUAL COLD VAPOR BY AAS EPA 245.5

NELAC:Y

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 07:28

Instrument: CVAA

Test: M420.1.0

Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0 P131.2.0

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

HEXAVALENT CHROMIUM SM 3500-CR D 18TH ED

NELAC:Y

Analyst: E. SOTKIEWICZ

Analysis Date: 31-JAN-08 10:00

Test: M410.6.0



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797263 CANAL NPDES POINT

Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	BDL	0.01	mg/L
The concentration due to the color and turbidity of the original sample was subtracted out.			

TOTAL SUSPENDED SOLIDS DRIED AT 103-105 DEGREES C SM 2540 D, 19TH ED.			NELAC Y
Analyst: T. PESTER	Analysis Date: 30-JAN-08 19:40	Test: G403.8.0	
Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	42	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 5.6 C.
Sample chain of custody number 52802.

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Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01

Approved by: SCOTT BRYAN 01-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 30-JAN-08	Project	Lab ID A797264
	Completed 31-JAN-08	PO Number WAIVER	
	Printed 01-FEB-08	Sampled 30-JAN-08 15:50	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
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Sample Description CLIENT ID: BOAT RAMP MATRIX TYPE: NON-SPECIFIC WATER SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

FAA OR ICP ACID DIGESTION EPA 200.0			
Analyst: J. KRAMER		Analysis Date: 30-JAN-08 19:00 Instrument: PREP Test: P129.2.0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC ICP EPA 200.7 REV. 4.4			NELAC-Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:51 Instrument: ICP Test: M403.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.010	mg/L

CADMIUM ICP EPA 200.7 REV. 4.4			NELAC-Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:51 Instrument: ICP Test: M408.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP EPA 200.7 REV. 4.4			NELAC-Y
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 02:51 Instrument: ICP Test: M410.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797264 BOAT RAMP

COPPER ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:51

Instrument: ICP

Test: M412.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

LEAD ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:51

Instrument: ICP

Test: M416.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

NICKEL ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:51

Instrument: ICP

Test: M422.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
NICKEL	0.0052	0.0050	mg/L

SELENIUM ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:51

Instrument: ICP

Test: M428.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

ZINC ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:51

Instrument: ICP

Test: M439.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
ZINC	0.029	0.020	mg/L

MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 04:30

Instrument: PREP

Test: P131.2.0

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

MERCURY MANUAL COLD VAPOR BY AAS EPA 245.5

NELAC:Y

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 07:28

Instrument: CVAA

Test: M420.1.0

Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0 P131.2.0

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

HEXAVALENT CHROMIUM SM 3500-CR D 18TH ED

NELAC:Y

Analyst: E. SOTKIEWICZ

Analysis Date: 31-JAN-08 10:00

Test: M410.6.0



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797264 BOAT RAMP

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

The concentration due to the color and turbidity of the original sample was subtracted out.

TOTAL SUSPENDED SOLIDS DRIED AT 103-105 DEGREES C SM 2540 D, 19TH ED.			NELAC Y
Analyst: T. PESTER	Analysis Date: 30-JAN-08 19:40	Test: G403.8.0	

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

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 5.6 C.
Sample chain of custody number 52802.

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the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01

Approved by: SCOTT BRYAN 01-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 30-JAN-08	Project	Lab ID A797261
	Completed 31-JAN-08	PO Number WAIVER	
	Printed 01-FEB-08	Sampled 30-JAN-08 11:15	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
--	--

Sample Description CLIENT ID: FIELD MATRIX TYPE: NON-SPECIFIC WATER SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

FAA OR ICP ACID DIGESTION EPA 200.0			
Analyst: J. KRAMER		Analysis Date: 30 JAN-08 19:00 Instrument: PREP Test: P129.2.0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC ICP EPA 200.7 REV. 4.4			NELAC-Y
Analyst: J. KRAMER		Analysis Date: 31 JAN-08 02:42 Instrument: ICP Test: M403.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ARSENIC	0.18	0.010	mg/L

CADMIUM ICP EPA 200.7 REV. 4.4			NELAC-Y
Analyst: J. KRAMER		Analysis Date: 31 JAN-08 02:42 Instrument: ICP Test: M408.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP EPA 200.7 REV. 4.4			NELAC-Y
Analyst: J. KRAMER		Analysis Date: 31 JAN-08 02:42 Instrument: ICP Test: M410.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CHROMIUM	0.041	0.010	mg/L



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797261 FIELD

COPPER ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:42

Instrument: ICP

Test: M412.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
COPPER	0.031	0.010	mg/L

LEAD ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:42

Instrument: ICP

Test: M416.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
LEAD	0.057	0.010	mg/L

NICKEL ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:42

Instrument: ICP

Test: M422.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
NICKEL	0.066	0.0050	mg/L

SELENIUM ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 06:46

Instrument: ICP

Test: M428.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

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

ZINC ICP EPA 200.7 REV. 4.4

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 31-JAN-08 02:42

Instrument: ICP

Test: M439.3.0

Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0

Parameter	Result	Det. Limit	Units
ZINC	0.22	0.020	mg/L

MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 04:30

Instrument: PREP

Test: P131.2.0

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

MERCURY, MANUAL COLD VAPOR BY AAS EPA 245.5

NELAC:Y

Analyst: W. WATNESS

Analysis Date: 31-JAN-08 07:28

Instrument: CVAA

Test: M420.1.0

Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0 P131.2.0

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

HEXAVALENT CHROMIUM SM 3500-CR D 18TH ED

NELAC:Y

Analyst: E. SOTKIEWICZ

Analysis Date: 31-JAN-08 10:00

Test: M410.6.0



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797261 FIELD

Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	0.03	0.01	mg/L
Sample was filtered due to interferences.			

TOTAL SUSPENDED SOLIDS DRIED AT 103-105 DEGREES C SM 2540 D; 19TH ED.			NELAC.Y
Analyst: T. PESTER	Analysis Date: 30-JAN-08 19:40		Test: G403.8.0
Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	550	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 5.6 C.
Sample chain of custody number 52802.

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the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01

Approved by: SCOTT BRYAN 01-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 31-JAN-08	Project	Lab ID A797419
	Completed 01-FEB-08	PO Number WAIVER	
	Printed 04-FEB-08	Sampled 31-JAN-08 11:30	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
--	--

Sample Description CLIENT ID: CIRC WATER MATRIX TYPE: NON-SPECIFIC WATER SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN
--

FAA OR ICP ACID DIGESTION EPA 200.0			
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 21:00	
		Instrument: PREP	
		Test: P129.2.0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 01-FEB-08 02:09	
		Instrument: ICP	
		Test: M403.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.010	mg/L

CADMIUM ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 01-FEB-08 02:09	
		Instrument: ICP	
		Test: M408.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 01-FEB-08 02:09	
		Instrument: ICP	
		Test: M410.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797419 CIRC WATER

COPPER ICP EPA 200.7 REV. 4.4			NELAC:Y
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 02:09	Instrument: ICP	Test: M412.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
COPPER	BDL	0.010	mg/L

LEAD ICP EPA 200.7 REV. 4.4			NELAC:Y
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 02:09	Instrument: ICP	Test: M416.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
LEAD	BDL	0.010	mg/L

NICKEL ICP EPA 200.7 REV. 4.4			NELAC:Y
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 02:09	Instrument: ICP	Test: M422.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.0050	mg/L

SELENIUM ICP EPA 200.7 REV. 4.4			NELAC:Y
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 02:09	Instrument: ICP	Test: M428.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.010	mg/L

ZINC ICP EPA 200.7 REV. 4.4			NELAC:Y
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 02:09	Instrument: ICP	Test: M439.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ZINC	0.025	0.020	mg/L

MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0			
Analyst: W. WATNESS	Analysis Date: 31-JAN-08 17:00	Instrument: PREP	Test: P131.2.0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY MANUAL COLD VAPOR BY AAS EPA 245.5			NELAC:Y
Analyst: W. WATNESS	Analysis Date: 01-FEB-08 06:17	Instrument: CVAA	Test: M420.1.0
Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0 P131.2.0			
Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

HEXAVALENT CHROMIUM SM 3500-CR D 18TH ED			NELAC:Y
Analyst: E. SOTKIEWICZ	Analysis Date: 31-JAN-08 16:50		Test: M410.6.0



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797419 CIRC WATER

Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	BDL	0.01	mg/L
The concentration due to the color and turbidity of the original sample was subtracted out.			

TOTAL SUSPENDED SOLIDS DRIED AT 103-105 DEGREES C SM 2540 D, 19TH ED.		NELAC: Y	
Analyst: T. PESTER	Analysis Date: 31-JAN-08 17:45	Test: G403.8.0	
Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	16	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 11.2 C.
Sample chain of custody number 52807.

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The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01

Approved by: SCOTT BRYAN 04-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 31-JAN-08	Project	Lab ID A797418
	Completed 01-FEB-08	PO Number WAIVER	
	Printed 04-FEB-08	Sampled 31-JAN-08 11:30	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
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Sample Description CLIENT ID: CANAL NPDES MATRIX TYPE: NON-SPECIFIC WATER SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

FAA OR ICP ACID DIGESTION EPA 200.0			
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 21:00	
		Instrument: PREP	
		Test: P129.2.0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC ICP EPA 200.7 REV. 4.4			
Analyst: J. KRAMER		Analysis Date: 01-FEB-08 01:56	
		Instrument: ICP	
		Test: M403.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.010	mg/L

CADMIUM ICP EPA 200.7 REV. 4.4			
Analyst: J. KRAMER		Analysis Date: 01-FEB-08 01:56	
		Instrument: ICP	
		Test: M408.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP EPA 200.7 REV. 4.4			
Analyst: J. KRAMER		Analysis Date: 01-FEB-08 01:56	
		Instrument: ICP	
		Test: M410.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797418 CANAL NPDES

COPPER ICP EPA 200.7 REV. 4.4		NELAC-Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 01:56	Instrument: ICP	Test: M412.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
COPPER	BDL	0.010	mg/L

LEAD ICP EPA 200.7 REV. 4.4		NELAC-Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 01:56	Instrument: ICP	Test: M416.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
LEAD	BDL	0.010	mg/L

NICKEL ICP EPA 200.7 REV. 4.4		NELAC-Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 01:56	Instrument: ICP	Test: M422.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
NICKEL	0.0059	0.0050	mg/L

SELENIUM ICP EPA 200.7 REV. 4.4		NELAC-Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 01:56	Instrument: ICP	Test: M428.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.010	mg/L

ZINC ICP EPA 200.7 REV. 4.4		NELAC-Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 01:56	Instrument: ICP	Test: M439.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ZINC	0.029	0.020	mg/L

MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0			
Analyst: W. WATNESS	Analysis Date: 31-JAN-08 17:00	Instrument: PREP	Test: P131.2.0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY, MANUAL COLD VAPOR BY AAS EPA 245.5		NELAC-Y	
Analyst: W. WATNESS	Analysis Date: 01-FEB-08 06:17	Instrument: CVAA	Test: M420.1.0
Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0 P131.2.0			
Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

HEXAVALENT CHROMIUM SM 3500-CR D 18TH ED		NELAC-Y	
Analyst: E. SOTKIEWICZ	Analysis Date: 31-JAN-08 16:50	Test: M410.6.0	



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797418 CANAL NPDES

Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	BDL	0.01	mg/L
The concentration due to the color and turbidity of the original sample was subtracted out.			

TOTAL SUSPENDED SOLIDS DRIED AT 103-105 DEGREES C SM 2540 D, 19TH ED.		NELAC Y	
Analyst: T. PESTER	Analysis Date: 31 JAN-08 17:45	Test: G403.8.0	
Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	30	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 11.2 C.
Sample chain of custody number 52807.

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or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
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Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01

Approved by: SCOTT BRYAN 04-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 31-JAN-08	Project	Lab ID A797417
	Completed 01-FEB-08	PO Number WAIVER	
	Printed 04-FEB-08	Sampled 31-JAN-08 11:30	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
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Sample Description CLIENT ID: BOAT RAMP MATRIX TYPE: NON-SPECIFIC WATER SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

FAA OR ICP ACID DIGESTION EPA 200.0			
Analyst: J. KRAMER		Analysis Date: 31-JAN-08 21:00 Instrument: PREP Test: P129.2.0	
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 01-FEB-08 02:06 Instrument: ICP Test: M403.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.010	mg/L

CADMIUM ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 01-FEB-08 02:06 Instrument: ICP Test: M408.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

CHROMIUM ICP EPA 200.7 REV. 4.4			NELAC.Y
Analyst: J. KRAMER		Analysis Date: 01-FEB-08 02:06 Instrument: ICP Test: M410.3.0	
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797417 BOAT RAMP

COPPER ICP EPA 200.7 REV. 4.4		NELAC:Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 02:06	Instrument: ICP	Test: M412.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
COPPER	BDL	0.010	mg/L

LEAD ICP EPA 200.7 REV. 4.4		NELAC:Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 02:06	Instrument: ICP	Test: M416.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
LEAD	BDL	0.010	mg/L

NICKEL ICP EPA 200.7 REV. 4.4		NELAC:Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 02:06	Instrument: ICP	Test: M422.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.0050	mg/L

SELENIUM ICP EPA 200.7 REV. 4.4		NELAC:Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 02:06	Instrument: ICP	Test: M428.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.010	mg/L

ZINC ICP EPA 200.7 REV. 4.4		NELAC:Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 02:06	Instrument: ICP	Test: M439.3.0
Prep: FAA OR ICP ACID DIGESTION EPA 200.0 P129.2.0			
Parameter	Result	Det. Limit	Units
ZINC	0.025	0.020	mg/L

MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0			
Analyst: W. WATNESS	Analysis Date: 31-JAN-08 17:00	Instrument: PREP	Test: P131.2.0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

MERCURY, MANUAL COLD VAPOR BY AAS EPA 245.5		NELAC:Y	
Analyst: W. WATNESS	Analysis Date: 01-FEB-08 06:17	Instrument: CVAA	Test: M420.1.0
Prep: MERCURY CVAA ACID DIGESTION EPA 245.1 REV. 3.0 P131.2.0			
Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

HEXAVALENT CHROMIUM SM 3500-CR D 18TH ED		NELAC:Y	
Analyst: E. SOTKIEWICZ	Analysis Date: 31-JAN-08 16:50	Test: M410.6.0	



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797417 BOAT RAMP

Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	BDL	0.01	mg/L
The concentration due to the color and turbidity of the original sample was subtracted out.			

TOTAL SUSPENDED SOLIDS DRIED AT 103-105 DEGREES C SM 2540 D, 19TH ED.		NELAC.Y	
Analyst: T. PESTER	Analysis Date: 31-JAN-08 17:45	Test: G403 8.0	
Parameter	Result	Det. Limit	Units
SUSPENDED SOLIDS	17	1	mg/L

Sample Comments

BDL Below Detection Limit

Sample was received on ice at temperature 11.2 C.
Sample chain of custody number 52807.

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Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01

Approved by: SCOTT BRYAN 04-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 30-JAN-08	Project	Lab ID A797265
	Completed 04-FEB-08	PO Number WAIVER	
	Printed 06-FEB-08	Sampled 30-JAN-08 13:00	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
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Sample Description CLIENT ID: UPSTREAM SOLIDS MATRIX TYPE: SLUDGE, SOIL, SOLID OR SEDIMENT SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846.1311			
Analyst: V. PATEL	Analysis Date: 31-JAN-08	Instrument: PREP	Test: P106.1-0
Parameter	Result	Det. Limit	Units
TOTAL SAMPLE WEIGHT	468.8		Grams
LIQUID FRACTION (GRAMS)	418.4		Grams
EXTRACTED SAMPLE	25.0		Grams
SOLIDS	11		Percent
9.5 MM SIEVE TEST	YES		Passed
INITIAL PH	9.0		Std. Units
ADJUSTED PH	6.2		Std. Units
BUFFER SOLUTION PH	2.91		Std. Units
FINAL PH	5.3		Std. Units
VOLUME BUFFERED SOLUTION	500		mL
VOLUME EXTRACT FILTERED	500		mL
VOLUME LIQUID (ADD BACK)	208		mL
TOTAL VOLUME FILTRATE	708		mL
AMBIENT TEMPERATURE	21.9		Degrees C
INITIAL TIME	18241.7		Hours
FINAL TIME	18259.3		Hours
PHASE 0 VOLUME (REP 0)	709		mL
PHASE 0 WEIGHT	NA		Grams
PHASE 0 DENSITY	NA		g/mL
PHASE 1 VOLUME (REP 1)	NA		mL
PHASE 1 WEIGHT	NA		Grams
PHASE 1 DENSITY	NA		g/mL



FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A			
Analyst: P. MATAKA	Analysis Date: 01-FEB-08 10:00	Instrument: PREP	Test: P130.8.0
Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

MERCURY CVAA ACID DIGESTION (LEACHATE) SW846-7470A			
Analyst: W. WATNESS	Analysis Date: 01-FEB-08 08:00	Instrument: PREP	Test: P131.9.0
Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0			
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	40		mL
FINAL VOLUME	40		mL

TCLP ARSENIC ICP SW846-6010B			NELAC Y
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 19:53	Instrument: ICP	Test: M603.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.050	mg/L
1:5 Dilution.			

TCLP CADMIUM ICP SW846-6010B			NELAC Y
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 19:53	Instrument: ICP	Test: M608.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.025	mg/L
1:5 Dilution.			

TCLP CHROMIUM ICP SW846-6010B			NELAC Y
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 19:53	Instrument: ICP	Test: M610.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.050	mg/L
1:5 Dilution.			

TCLP COPPER ICP SW846-6010B			NELAC Y
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 19:53	Instrument: ICP	Test: M612.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
COPPER	BDL	0.050	mg/L
1:5 Dilution.			



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797265 UPSTREAM SOLIDS

TCLP NICKEL ICP SW846-6010B			NELAC-Y
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 19:53	Instrument: ICP	Test: M622.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
NICKEL	0.054	0.025	mg/L
1:5 Dilution.			

TCLP LEAD ICP SW846-6010B			NELAC-Y
Analyst: J. KRAMER		Analysis Date: 01-FEB-08 19:53	Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0		Test: M616.8.0	
Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L
1:5 Dilution.			

TCLP SELENIUM ICP SW846-6010B			NELAC-Y
Analyst: J. KRAMER		Analysis Date: 01-FEB-08 19:53	Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0		Test: M628.8.0	
Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.050	mg/L
1:5 Dilution.			

TCLP ZINC ICP SW846-6010B			NELAC-Y
Analyst: J. KRAMER		Analysis Date: 01-FEB-08 19:53	Instrument: ICP
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0		Test: M639.8.0	
Parameter	Result	Det. Limit	Units
ZINC	0.47	0.10	mg/L
1:5 Dilution.			

TCLP MERCURY CVAA SW846-7470A				NELAC-Y
Analyst: W. WATNESS		Analysis Date: 01-FEB-08 13:15		Instrument: CVAA
Prep: MERCURY CVAA ACID DIGESTION (LEACHATE) SW846-7470A P131.9.0				Test: M620.4.0
Parameter	Result	Det. Limit	Units	
MERCURY	BDL	0.0020	mg/L	

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (NEUTRAL LEACH) SW846-1311 MOD				
Analyst: V. PATEL		Analysis Date: 31-JAN-08		Instrument: PREP
				Test: P105.1.0
Parameter	Result	Det. Limit	Units	
TOTAL SAMPLE WEIGHT	468.8		Grams	
LIQUID FRACTION (GRAMS)	418.4		Grams	
EXTRACTED SAMPLE	20.0		Grams	
SOLIDS	11		Percent	



9.5 MM SIEVE TEST	YES	Passed
INITIAL PH	8.8	Std. Units
ADJUSTED PH	NA	Std. Units
BUFFER SOLUTION PH	NA	Std. Units
FINAL PH	8.5	Std. Units
VOLUME BUFFERED SOLUTION	320	mL
VOLUME EXTRACT FILTERED	400	mL
VOLUME LIQUID (ADD BACK)	166	mL
TOTAL VOLUME FILTRATE	566	mL
AMBIENT TEMPERATURE	21.9	Degrees C
INITIAL TIME	2162.1	Hours
FINAL TIME	2186.1	Hours
PHASE 0 VOLUME (REP 0)	566	mL
PHASE 0 WEIGHT	NA	Grams
PHASE 0 DENSITY	NA	g/mL
PHASE 1 VOLUME (REP 1)	NA	mL
PHASE 1 WEIGHT	NA	Grams
PHASE 1 DENSITY	NA	g/mL

HEXAVALENT CHROMIUM SW846-7196A			NELAC-Y
Analyst: T. DRIGGERS	Analysis Date: 01-FEB-08 16:00	Test: M110.6.0	
Prep: TOXICITY CHARACTERISTIC LEACHING PROCEDURE (NEUTRAL LEACH) SW846-1311 MOD P105.1.0			
Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	BDL	0.01	mg/L

Sample Comments

BDL Below Detection Limit

NA Not Applicable

YES Yes

Sample was received on ice at temperature 5.6 C.
Sample chain of custody number 52803.

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The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

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Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797265 UPSTREAM SOLIDS

Scott A Bryan

Approved by: SCOTT BRYAN 05-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 30-JAN-08	Project	Lab ID A797268
	Completed 04-FEB-08	PO Number WAIVER	
	Printed 06-FEB-08	Sampled 30-JAN-08 15:50	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
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Sample Description CLIENT ID: E POND ASH SOLIDS MATRIX TYPE: SLUDGE, SOIL, SOLID OR SEDIMENT SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311			
Analyst: V. PATEL	Analysis Date: 31-JAN-08	Instrument: PREP	Test: P106.1-0

Parameter	Result	Det. Limit	Units
TOTAL SAMPLE WEIGHT	654.0		Grams
LIQUID FRACTION (GRAMS)	173.8		Grams
EXTRACTED SAMPLE	50.0		Grams
SOLIDS	73		Percent
9.5 MM SIEVE TEST	YES		Passed
INITIAL PH	8.9		Std. Units
ADJUSTED PH	3.5		Std. Units
BUFFER SOLUTION PH	4.96		Std. Units
FINAL PH	5.4		Std. Units
VOLUME BUFFERED SOLUTION	1000		mL
VOLUME EXTRACT FILTERED	1000		mL
VOLUME LIQUID (ADD BACK)	18		mL
TOTAL VOLUME FILTRATE	1018		mL
AMBIENT TEMPERATURE	21.9		Degrees C
INITIAL TIME	18241.7		Hours
FINAL TIME	18259.3		Hours
PHASE 0 VOLUME (REP 0)	1018		mL
PHASE 0 WEIGHT	NA		Grams
PHASE 0 DENSITY	NA		g/mL
PHASE 1 VOLUME (REP 1)	NA		mL
PHASE 1 WEIGHT	NA		Grams
PHASE 1 DENSITY	NA		g/mL



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797268 E POND ASH SOLIDS

FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A

Analyst: P. MATAKA

Analysis Date: 01-FEB-08 10:00

Instrument: PREP

Test: P130.8.0

Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0

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

MERCURY CVAA ACID DIGESTION (LEACHATE) SW846-7470A

Analyst: W. WATNESS

Analysis Date: 01-FEB-08 08:00

Instrument: PREP

Test: P131.9.0

Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0

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

TCLP ARSENIC ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 01-FEB-08 20:09

Instrument: ICP

Test: M603.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

Parameter	Result	Det. Limit	Units
ARSENIC	0.056	0.050	mg/L

1:5 Dilution.

TCLP CADMIUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 01-FEB-08 20:09

Instrument: ICP

Test: M608.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.

TCLP CHROMIUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 01-FEB-08 20:09

Instrument: ICP

Test: M610.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.

TCLP COPPER ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 01-FEB-08 20:09

Instrument: ICP

Test: M612.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797268 E POND ASH SOLIDS

TCLP NICKEL ICP SW846-6010B			NELAC.Y
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 20:09	Instrument: ICP	Test: M622.8.0
Prep: FAA OR ICP/ACID DIGESTION (LEACHATE) SW846-3010A-P130.8.0			
Parameter	Result	Det. Limit	Units
NICKEL	0.027	0.025	mg/L
1:5 Dilution.			

TCLP LEAD ICP SW846-6010B			NELAC-Y
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 20:09	Instrument: ICP	Test: M616.8.0
Prep: FAA OR ICP/ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L
1:5 Dilution.			

TCLP SELENIUM ICP SW846-6010B				NELAC.Y
Analyst: J. KRAMER		Analysis Date: 01-FEB-08 20:28		Instrument: ICP
Prep: FAA OR ICP/ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0				Test: M628.8.0
Parameter	Result	Det. Limit	Units	
SELENIUM	BDL	0.050	mg/L	

TCLP ZINC ICP SW846-6010B			NELAC.Y
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 20:09	Instrument: ICP	Test: M639.8.0
Prep: FAA OR ICP/ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
ZINC	0.20	0.10	mg/L
1:5 Dilution.			

TCLP MERCURY CVAA SW846-7470A				NELAC.Y
Analyst: W. WATNESS		Analysis Date: 01-FEB-08 13:15		Instrument: CVAA
Prep: MERCURY CVAA/ACID DIGESTION (LEACHATE) SW846-7470A P131.9.0				Test: M620.4.0
Parameter	Result	Det. Limit	Units	
MERCURY	BDL	0.0020	mg/L	

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (NEUTRAL LEACH) SW846-1311 MOD				
Analyst: V. PATEL		Analysis Date: 31 JAN 08		Instrument: PREP
				Test: P105.1.0
Parameter	Result	Det. Limit	Units	
TOTAL SAMPLE WEIGHT	654.0		Grams	
LIQUID FRACTION (GRAMS)	173.8		Grams	
EXTRACTED SAMPLE	50.0		Grams	
SOLIDS	73		Percent	
9.5 MM SIEVE TEST	YES		Passed	
INITIAL PH	9.1		Std. Units	



ADJUSTED PH	NA	Std. Units
BUFFER SOLUTION PH	NA	Std. Units
FINAL PH	8.7	Std. Units
VOLUME BUFFERED SOLUTION	800	mL
VOLUME EXTRACT FILTERED	1000	mL
VOLUME LIQUID (ADD BACK)	18	mL
TOTAL VOLUME FILTRATE	1018	mL
AMBIENT TEMPERATURE	21.9	Degrees C
INITIAL TIME	2162.1	Hours
FINAL TIME	2186.1	Hours
PHASE 0 VOLUME (REP 0)	1018	mL
PHASE 0 WEIGHT	NA	Grams
PHASE 0 DENSITY	NA	g/mL
PHASE 1 VOLUME (REP 1)	NA	mL
PHASE 1 WEIGHT	NA	Grams
PHASE 1 DENSITY	NA	g/mL

HEXAVALENT CHROMIUM SW846-7196A			NELAC.Y
Analyst: T. DRIGGERS	Analysis Date: 01-FEB-08 16:00		Test: M1106.0
Prep: TOXICITY CHARACTERISTIC LEACHING PROCEDURE (NEUTRAL LEACH) SW846-1311 MOD P105 1:0			
Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	BDL	0.01	mg/L

Sample Comments

BDL Below Detection Limit

NA Not Applicable

YES Yes

Sample was received on ice at temperature 5.6 C.
Sample chain of custody number 52803.

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

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797268 E POND ASH SOLIDS

Scott A Bryan

Approved by: SCOTT BRYAN 05-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 30-JAN-08	Project	Lab ID A797267
	Completed 04-FEB-08	PO Number WAIVER	
	Printed 06-FEB-08	Sampled 30-JAN-08 15:50	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
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Sample Description CLIENT ID: CANAL SOLIDS MATRIX TYPE: SLUDGE, SOIL, SOLID OR SEDIMENT SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN
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TOXICCHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311			
Analyst: V. PATEL	Analysis Date: 31-JAN-08	Instrument: PREP	Test: P106.1.0
Parameter	Result	Det. Limit	Units
TOTAL SAMPLE WEIGHT	578.6		Grams
LIQUID FRACTION (GRAMS)	394.0		Grams
EXTRACTED SAMPLE	50.0		Grams
SOLIDS	32		Percent
9.5 MM SIEVE TEST	YES		Passed
INITIAL PH	9.1		Std. Units
ADJUSTED PH	4.1		Std. Units
BUFFER SOLUTION PH	4.96		Std. Units
FINAL PH	5.5		Std. Units
VOLUME-BUFFERED SOLUTION	1000		mL
VOLUME EXTRACT FILTERED	1000		mL
VOLUME LIQUID (ADD BACK)	107		mL
TOTAL VOLUME FILTRATE	1107		mL
AMBIENT TEMPERATURE	21.9		Degrees C
INITIAL TIME	18241.7		Hours
FINAL TIME	18259.3		Hours
PHASE 0 VOLUME (REP 0)	1107		mL
PHASE 0 WEIGHT	NA		Grams
PHASE 0 DENSITY	NA		g/mL
PHASE 1 VOLUME (REP 1)	NA		mL
PHASE 1 WEIGHT	NA		Grams
PHASE 1 DENSITY	NA		g/mL

**FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A**

Analyst: P. MATAKA

Analysis Date: 01-FEB-08 10:00

Instrument: PREP

Test: P130.8.0

Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0

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

MERCURY CVAA ACID DIGESTION (LEACHATE) SW846-7470A

Analyst: W. WATNESS

Analysis Date: 01-FEB-08 08:00

Instrument: PREP

Test: P131.9.0

Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0

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

TCLP ARSENIC ICP SW846-6010B

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 01-FEB-08 20:06

Instrument: ICP

Test: M603.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

Parameter	Result	Det. Limit	Units
ARSENIC	0.067	0.050	mg/L

1:5 Dilution.

TCLP CADMIUM ICP SW846-6010B

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 01-FEB-08 20:06

Instrument: ICP

Test: M608.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.

TCLP CHROMIUM ICP SW846-6010B

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 01-FEB-08 20:06

Instrument: ICP

Test: M610.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.

TCLP COPPER ICP SW846-6010B

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 01-FEB-08 20:06

Instrument: ICP

Test: M612.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.



TCLP NICKEL ICP SW846-6010B		NELAC:Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 20:06	Instrument: ICP	Test: M622.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
NICKEL	0.041	0.025	mg/L
1:5 Dilution.			

TCLP LEAD ICP SW846-6010B		NELAC:Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 20:06	Instrument: ICP	Test: M616.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L
1:5 Dilution.			

TCLP SELENIUM ICP SW846-6010B		NELAC:Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 20:06	Instrument: ICP	Test: M628.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.050	mg/L
1:5 Dilution.			

TCLP ZINC ICP SW846-6010B		NELAC:Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 20:06	Instrument: ICP	Test: M639.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
ZINC	0.17	0.10	mg/L
1:5 Dilution.			

TCLP MERCURY CVAA SW846-7470A		NELAC:Y	
Analyst: W. WATNESS	Analysis Date: 01-FEB-08 13:15	Instrument: CVAA	Test: M620.4.0
Prep: MERCURY CVAA ACID DIGESTION (LEACHATE) SW846-7470A P131.9.0			
Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0020	mg/L

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (NEUTRAL LEACH) SW846-1311 MOD			
Analyst: V. PATEL	Analysis Date: 31-JAN-08	Instrument: PREP	Test: P105.1.0
Parameter	Result	Det. Limit	Units
TOTAL SAMPLE WEIGHT	578.6		Grams
LIQUID FRACTION (GRAMS)	394.0		Grams
EXTRACTED SAMPLE	50.0		Grams
SOLIDS	32		Percent



9.5 MM SIEVE TEST	YES	Passed
INITIAL PH	8.9	Std. Units
ADJUSTED PH	NA	Std. Units
BUFFER SOLUTION PH	NA	Std. Units
FINAL PH	8.7	Std. Units
VOLUME BUFFERED SOLUTION	800	mL
VOLUME EXTRACT FILTERED	1000	mL
VOLUME LIQUID (ADD BACK)	107	mL
TOTAL VOLUME FILTRATE	1107	mL
AMBIENT TEMPERATURE	21.9	Degrees C
INITIAL TIME	2162.1	Hours
FINAL TIME	2186.1	Hours
PHASE 0 VOLUME (REP 0)	1107	mL
PHASE 0 WEIGHT	NA	Grams
PHASE 0 DENSITY	NA	g/mL
PHASE 1 VOLUME (REP 1)	NA	mL
PHASE 1 WEIGHT	NA	Grams
PHASE 1 DENSITY	NA	g/mL

HEXAVALENT CHROMIUM SW846-7196A		NELAC-Y	
Analyst: T. DRIGGERS	Analysis Date: 01-FEB-08 16:00		Test: M110.6.0
Prep: TOXICITY CHARACTERISTIC LEACHING PROCEDURE (NEUTRAL LEACH) SW846-1311 MOD P105.1.0			
Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	BDL	0.01	mg/L

Sample Comments

BDL Below Detection Limit

NA Not Applicable

YES Yes

Sample was received on ice at temperature 5.6 C.
Sample chain of custody number 52803.

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

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797267 CANAL SOLIDS

Scott A Bryan

Approved by: SCOTT BRYAN 05-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 30-JAN-08	Project	Lab ID A797266
	Completed 04-FEB-08	PO Number WAIVER	
	Printed 06-FEB-08	Sampled 30-JAN-08 11:40	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
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Sample Description CLIENT ID: BOAT RAMP SOLIDS MATRIX TYPE: SLUDGE, SOIL, SOLID OR SEDIMENT SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311			
Analyst: V. PATEL	Analysis Date: 31-JAN-08	Instrument: PREP	Test: P106.1.0
Parameter	Result	Det. Limit	Units
TOTAL SAMPLE WEIGHT	687.6		Grams
LIQUID FRACTION (GRAMS)	287.3		Grams
EXTRACTED SAMPLE	50.0		Grams
SOLIDS	58		Percent
9.5 MM SIEVE TEST	YES		Passed
INITIAL PH	9.1		Std. Units
ADJUSTED PH	5.3		Std. Units
BUFFER SOLUTION PH	2.91		Std. Units
FINAL PH	4.9		Std. Units
VOLUME BUFFERED SOLUTION	1000		mL
VOLUME EXTRACT FILTERED	1000		mL
VOLUME LIQUID (ADD BACK)	36		mL
TOTAL VOLUME FILTRATE	1036		mL
AMBIENT TEMPERATURE	21.9		Degrees C
INITIAL TIME	18241.7		Hours
FINAL TIME	18259.3		Hours
PHASE 0 VOLUME (REP 0)	1036		mL
PHASE 0 WEIGHT	NA		Grams
PHASE 0 DENSITY	NA		g/mL
PHASE 1 VOLUME (REP 1)	NA		mL
PHASE 1 WEIGHT	NA		Grams
PHASE 1 DENSITY	NA		g/mL



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797266 BOAT RAMP SOLIDS

FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A

Analyst: P. MATAKA

Analysis Date: 01-FEB-08 10:00

Instrument: PREP

Test: P130.8.0

Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0

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

MERCURY CVAA ACID DIGESTION (LEACHATE) SW846-7470A

Analyst: W. WATNESS

Analysis Date: 01-FEB-08 08:00

Instrument: PREP

Test: P131.9.0

Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0

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

TCLP ARSENIC ICP SW846-6010B

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 01-FEB-08 20:02

Instrument: ICP

Test: M603.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.

TCLP CADMIUM ICP SW846-6010B

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 01-FEB-08 20:02

Instrument: ICP

Test: M608.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.

TCLP CHROMIUM ICP SW846-6010B

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 01-FEB-08 20:02

Instrument: ICP

Test: M610.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.

TCLP COPPER ICP SW846-6010B

NELAC-Y

Analyst: J. KRAMER

Analysis Date: 01-FEB-08 20:02

Instrument: ICP

Test: M612.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797266 BOAT RAMP SOLIDS

TCLP NICKEL ICP SW846-6010B		NELAC Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 20:02	Instrument: ICP	Test: M622.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
NICKEL	0.054	0.025	mg/L
1:5 Dilution.			

TCLP LEAD ICP SW846-6010B		NELAC Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 20:02	Instrument: ICP	Test: M616.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L
1:5 Dilution.			

TCLP SELENIUM ICP SW846-6010B		NELAC Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 20:02	Instrument: ICP	Test: M628.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.050	mg/L
1:5 Dilution.			

TCLP ZINC ICP SW846-6010B		NELAC Y	
Analyst: J. KRAMER	Analysis Date: 01-FEB-08 20:02	Instrument: ICP	Test: M639.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
ZINC	0.29	0.10	mg/L
1:5 Dilution.			

TCLP MERCURY CVAA SW846-7470A		NELAC Y	
Analyst: W. WATNESS	Analysis Date: 01-FEB-08 13:15	Instrument: CVAA	Test: M620.4.0
Prep: MERCURY CVAA ACID DIGESTION (LEACHATE) SW846-7470A P131.9.0			
Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0020	mg/L

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (NEUTRAL LEACH) SW846-1311 MOD			
Analyst: V. PATEL	Analysis Date: 31-JAN-08	Instrument: PREP	Test: P105.1.0
Parameter	Result	Det. Limit	Units
TOTAL SAMPLE WEIGHT	687.6		Grams
LIQUID FRACTION (GRAMS)	287.3		Grams
EXTRACTED SAMPLE	50.0		Grams
SOLIDS	58		Percent



9.5 MM SIEVE TEST	YES	Passed
INITIAL PH	9.2	Std. Units
ADJUSTED PH	NA	Std. Units
BUFFER SOLUTION PH	NA	Std. Units
FINAL PH	8.9	Std. Units
VOLUME BUFFERED SOLUTION	800	mL
VOLUME EXTRACT FILTERED	1000	mL
VOLUME LIQUID (ADD BACK)	36	mL
TOTAL VOLUME FILTRATE	1036	mL
AMBIENT TEMPERATURE	21.9	Degrees C
INITIAL TIME	2162.1	Hours
FINAL TIME	2186.1	Hours
PHASE 0 VOLUME (REP 0)	566	mL
PHASE 0 WEIGHT	NA	Grams
PHASE 0 DENSITY	NA	g/mL
PHASE 1 VOLUME (REP 1)	NA	mL
PHASE 1 WEIGHT	NA	Grams
PHASE 1 DENSITY	NA	g/mL

HEXAVALENT CHROMIUM SW846-7196A		NELAC-Y	
Analyst: T. DRIGGERS	Analysis Date: 01-FEB-08 16:00		Test: M110.6.0
Prep: TOXICITY CHARACTERISTIC LEACHING PROCEDURE (NEUTRAL LEACH) SW846-1311 MOD P105.1.0			
Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	BDL	0.01	mg/L

Sample Comments

BDL Below Detection Limit

NA Not Applicable

YES Yes

Sample was received on ice at temperature 5.6 C.
Sample chain of custody number 52803.

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

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797266 BOAT RAMP SOLIDS

Scott A Bryan

Approved by: SCOTT BRYAN 05-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 31-JAN-08	Project	Lab ID A797424
	Completed 04-FEB-08	PO Number WAIVER	
	Printed 06-FEB-08	Sampled 31-JAN-08 11:30	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
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Sample Description CLIENT ID: CANAL NPDES SOLIDS MATRIX TYPE: SLUDGE, SOIL, SOLID OR SEDIMENT SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN
--

TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311			
Analyst: V. PATEL		Analysis Date: 01-FEB-08	Instrument: PREP
		Test: P106.1.0	
Parameter	Result	Det. Limit	Units
TOTAL SAMPLE WEIGHT	705.6		Grams
LIQUID FRACTION (GRAMS)	663.0		Grams
EXTRACTED SAMPLE	20.0		Grams
SOLIDS	6		Percent
9.5 MM SIEVE TEST	YES		Passed
INITIAL PH	9.3		Std. Units
ADJUSTED PH	4.4		Std. Units
BUFFER SOLUTION PH	4.96		Std. Units
FINAL PH	6.0		Std. Units
VOLUME BUFFERED SOLUTION	400		mL
VOLUME EXTRACT FILTERED	400		mL
VOLUME LIQUID (ADD BACK)	311		mL
TOTAL VOLUME FILTRATE	711		mL
AMBIENT TEMPERATURE	22.5		Degrees C
INITIAL TIME	2186.1		Hours
FINAL TIME	2203.4		Hours
PHASE 0 VOLUME (REP 0)	711		mL
PHASE 0 WEIGHT	NA		Grams
PHASE 0 DENSITY	NA		g/mL
PHASE 1 VOLUME (REP 1)	NA		mL
PHASE 1 WEIGHT	NA		Grams
PHASE 1 DENSITY	NA		g/mL



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797424 CANAL NPDES SOLIDS

FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A

Analyst: J. KRAMER

Analysis Date: 02-FEB-08 22:30

Instrument: PREP

Test: P130.8.0

Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0

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

MERCURY CVAA ACID DIGESTION (LEACHATE) SW846-7470A

Analyst: W. WATNESS

Analysis Date: 02-FEB-08 09:00

Instrument: PREP

Test: P131.9.0

Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	4		mL
FINAL VOLUME	40		mL

TCLP ARSENIC ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 03-FEB-08 03:25

Instrument: ICP

Test: M603.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.

TCLP CADMIUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 03-FEB-08 03:25

Instrument: ICP

Test: M608.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.

TCLP CHROMIUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 03-FEB-08 03:25

Instrument: ICP

Test: M610.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.

TCLP COPPER ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 03-FEB-08 03:25

Instrument: ICP

Test: M612.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797424 CANAL NPDES SOLIDS

TCLP NICKEL ICP SW846-6010B		NELAC Y	
Analyst: J. KRAMER	Analysis Date: 03-FEB-08 03:25	Instrument: ICP	Test: M622.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
NICKEL	BDL	0.025	mg/L
1:5 Dilution.			

TCLP LEAD ICP SW846-6010B		NELAC Y	
Analyst: J. KRAMER	Analysis Date: 03-FEB-08 03:25	Instrument: ICP	Test: M616.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L
1:5 Dilution.			

TCLP SELENIUM ICP SW846-6010B		NELAC Y	
Analyst: J. KRAMER	Analysis Date: 03-FEB-08 03:25	Instrument: ICP	Test: M628.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.050	mg/L
1:5 Dilution.			

TCLP ZINC ICP SW846-6010B		NELAC Y	
Analyst: J. KRAMER	Analysis Date: 03-FEB-08 03:25	Instrument: ICP	Test: M639.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
ZINC	0.11	0.10	mg/L
1:5 Dilution.			

TCLP MERCURY CVAA SW846-7470A		NELAC Y	
Analyst: W. WATNESS	Analysis Date: 02-FEB-08 13:12	Instrument: CVAA	Test: M620.4.0
Prep: MERCURY CVAA ACID DIGESTION (LEACHATE) SW846-7470A P131.9.0			
Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0020	mg/L

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (NEUTRAL LEACH) SW846-1311 MOD			
Analyst: V. PATEL	Analysis Date: 01-FEB-08	Instrument: PREP	Test: P105.1.0
Parameter	Result	Det. Limit	Units
TOTAL SAMPLE WEIGHT	705.6		Grams
LIQUID FRACTION (GRAMS)	66.3		Grams
EXTRACTED SAMPLE	16.0		Grams
SOLIDS	6		Percent



9.5 MM SIEVE TEST	YES	Passed
INITIAL PH	9.6	Std. Units
ADJUSTED PH	NA	Std. Units
BUFFER SOLUTION PH	NA	Std. Units
FINAL PH	8.7	Std. Units
VOLUME BUFFERED SOLUTION	320	mL
VOLUME EXTRACT FILTERED	400	mL
VOLUME LIQUID (ADD BACK)	249	mL
TOTAL VOLUME FILTRATE	649	mL
AMBIENT TEMPERATURE	22.5	Degrees C
INITIAL TIME	474.3	Hours
FINAL TIME	498.8	Hours
PHASE 0 VOLUME (REP 0)	649	mL
PHASE 0 WEIGHT	NA	Grams
PHASE 0 DENSITY	NA	g/mL
PHASE 1 VOLUME (REP 1)	NA	mL
PHASE 1 WEIGHT	NA	Grams
PHASE 1 DENSITY	NA	g/mL

HEXAVALENT CHROMIUM SW846-7196A		NELAC Y
Analyst: T. DRIGGERS	Analysis Date: 02-FEB-08 14:30	Test M11060
Prep: TOXICITY CHARACTERISTIC LEACHING PROCEDURE (NEUTRAL LEACH) SW846-1311-MOD P105.1.0		

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

The concentration due to the color and turbidity of the original sample was subtracted out.

No Pink Color.

Sample Comments

BDL Below Detection Limit

NA Not Applicable

YES Yes

Sample was received on ice at temperature 11.2 C.
Sample chain of custody number 52806.

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Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797424 CANAL NPDES SOLIDS

Sample Comments

the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01

Scott A Bryan

Approved by: SCOTT BRYAN 05-FEB-08



CERTIFICATE OF ANALYSIS

Service Location HERITAGE ENVIRONMENTAL SERVICES, LLC COMMERCIAL LABORATORY OPERATIONS 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 31-JAN-08	Project	Lab ID A797423
	Completed 04-FEB-08	PO Number WAIVER	
	Printed 06-FEB-08	Sampled 31-JAN-08 11:30	

Report To MARK MCFARLAND INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151	Bill To INDIANAPOLIS POWER & LIGHT 4040 BLUE BLUFF ROAD MARTINSVILLE, IN 46151
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Sample Description CLIENT ID: BOAT RAMP SOLIDS MATRIX TYPE: SLUDGE, SOIL, SOLID OR SEDIMENT SUBMITTER CODE: 9364 PWS NAME: IPL EAGLE VALLEY STATION PWS ADDRESS: 4040 BLUE BLUFF ROAD MARTINSVILLE IN

TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311			
Analyst: V. RATEL		Analysis Date: 01-FEB-08	Instrument: PREP
		Test: P106.1.0	
Parameter	Result	Det. Limit	Units
TOTAL SAMPLE WEIGHT	470.6		Grams
LIQUID FRACTION (GRAMS)	125.6		Grams
EXTRACTED SAMPLE	50.0		Grams
SOLIDS	73		Percent
9.5 MM SIEVE TEST	YES		Passed
INITIAL PH	9.9		Std. Units
ADJUSTED PH	5.3		Std. Units
BUFFER SOLUTION PH	2.91		Std. Units
FINAL PH	5.0		Std. Units
VOLUME BUFFERED SOLUTION	1000		mL
VOLUME EXTRACT FILTERED	1000		mL
VOLUME LIQUID (ADD BACK)	18		mL
TOTAL VOLUME FILTRATE	1018		mL
AMBIENT TEMPERATURE	22.5		Degrees C
INITIAL TIME	2186.1		Hours
FINAL TIME	2203.4		Hours
PHASE 0 VOLUME (REP 0)	1018		mL
PHASE 0 WEIGHT	NA		Grams
PHASE 0 DENSITY	NA		g/mL
PHASE 1 VOLUME (REP 1)	NA		mL
PHASE 1 WEIGHT	NA		Grams
PHASE 1 DENSITY	NA		g/mL



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797423 BOAT RAMP SOLIDS

FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A

Analyst: J. KRAMER

Analysis Date: 02-FEB-08

Instrument: PREP

Test: P130.8.0

Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0

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

MERCURY CVAA ACID DIGESTION (LEACHATE) SW846-7470A

Analyst: W. WATNESS

Analysis Date: 02-FEB-08 09:00

Instrument: PREP

Test: P131.9.0

Prep: TOX CHAR LEACHING PROCEDURE (TCLP METALS ONLY) SW846-1311 P106.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	4		mL
FINAL VOLUME	40		mL

TCLP ARSENIC ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 03-FEB-08 03:15

Instrument: ICP

Test: M603.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.

TCLP CADMIUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 03-FEB-08 03:15

Instrument: ICP

Test: M608.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.

TCLP CHROMIUM ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 03-FEB-08 03:15

Instrument: ICP

Test: M610.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.

TCLP COPPER ICP SW846-6010B

NELAC:Y

Analyst: J. KRAMER

Analysis Date: 03-FEB-08 03:15

Instrument: ICP

Test: M612.8.0

Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0

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

1:5 Dilution.



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797423 BOAT RAMP SOLIDS

TCLP NICKEL ICP SW846-6010B		NELAC Y	
Analyst: J. KRAMER	Analysis Date: 03-FEB-08 03:15	Instrument: ICP	Test: M622.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
NICKEL	0.026	0.025	mg/L
1:5 Dilution.			

TCLP LEAD ICP SW846-6010B		NELAC Y	
Analyst: J. KRAMER	Analysis Date: 03-FEB-08 03:15	Instrument: ICP	Test: M616.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L
1:5 Dilution.			

TCLP SELENIUM ICP SW846-6010B		NELAC Y	
Analyst: J. KRAMER	Analysis Date: 03-FEB-08 03:15	Instrument: ICP	Test: M628.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.050	mg/L
1:5 Dilution.			

TCLP ZINC ICP SW846-6010B		NELAC Y	
Analyst: J. KRAMER	Analysis Date: 03-FEB-08 03:15	Instrument: ICP	Test: M639.8.0
Prep: FAA OR ICP ACID DIGESTION (LEACHATE) SW846-3010A P130.8.0			
Parameter	Result	Det. Limit	Units
ZINC	0.18	0.10	mg/L
1:5 Dilution.			

TCLP MERCURY CVAA SW846-7470A		NELAC Y	
Analyst: W. WATNESS	Analysis Date: 02-FEB-08 13:12	Instrument: CVAA	Test: M620.4.0
Prep: MERCURY CVAA ACID DIGESTION (LEACHATE) SW846-7470A P131.9.0			
Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.0020	mg/L

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (NEUTRAL LEACH) SW846-1311 MOD			
Analyst: V. PATEL	Analysis Date: 01-FEB-08	Instrument: PREP	Test: P105.1.0
Parameter	Result	Det. Limit	Units
TOTAL SAMPLE WEIGHT	470.6		Grams
LIQUID FRACTION (GRAMS)	125.6		Grams
EXTRACTED SAMPLE	50.0		Grams
SOLIDS	73		Percent



9.5 MM SIEVE TEST	YES	Passed
INITIAL PH	9.2	Std. Units
ADJUSTED PH	NA	Std. Units
BUFFER SOLUTION PH	NA	Std. Units
FINAL PH	9.4	Std. Units
VOLUME BUFFERED SOLUTION	800	mL
VOLUME EXTRACT FILTERED	1000	mL
VOLUME LIQUID (ADD BACK)	18	mL
TOTAL VOLUME FILTRATE	1018	mL
AMBIENT TEMPERATURE	22.5	Degrees C
INITIAL TIME	474.8	Hours
FINAL TIME	498.8	Hours
PHASE 0 VOLUME (REP 0)	1018	mL
PHASE 0 WEIGHT	NA	Grams
PHASE 0 DENSITY	NA	g/mL
PHASE 1 VOLUME (REP 1)	NA	mL
PHASE 1 WEIGHT	NA	Grams
PHASE 1 DENSITY	NA	g/mL

HEXAVALENT CHROMIUM SW846-7196A			NELAC-Y
Analyst: T. DRIGGERS	Analysis Date: 02-FEB-08 14:30	Test: M110-6.0	
Prep: TOXICITY CHARACTERISTIC LEACHING PROCEDURE (NEUTRAL LEACH) SW846-1311 MOD P105-1.0			
Parameter	Result	Det. Limit	Units
HEXAVALENT CHROMIUM	BDL	0.01	mg/L

Sample Comments

BDL Below Detection Limit

NA Not Applicable

YES Yes

Sample was received on ice at temperature 11.2 C.
Sample chain of custody number 52806.

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without the written approval of the lab.

The sample results relate only to the analytes of interest tested
or to the sample as received by the lab.

Heritage Environmental Services, LLC certifies that the test results
indicated as NELAC (National Environmental Laboratory Accreditation
Conference) accredited (Yes for NELAC) meet all requirements of NELAC and
Illinois EPA Part 186 unless otherwise explained or justified as to the
the exact nature of the deviations.

Heritage Environmental Services, LLC is accredited under Illinois NELAC
accreditation number 100401.

Indiana SDWA Lab Accred. No. C-49-01



HERITAGE ENVIRONMENTAL SERVICES, LLC

Sample ID: A797423 BOAT RAMP SOLIDS

Scott A Bryan

Approved by: SCOTT BRYAN 05-FEB-08

INDIANAPOLIS POWER & LIGHT CO.
H.T. PRITCHARD GENERATING STATION
NPDES-WASTEWATER MONITORING

O & G----- GR
TSS----- 24 HR
pH----- GR

SAMPLE NO. 147P103-013008-1
FLOW (MGD): _____

pH - STANDARD METHODS 18th EDITION PAGE 4-65, METHOD 4500-H+ - LIMIT 6.0 - 9.0

TOTAL SUSPENDED SOLIDS - STANDARD METHODS 18th EDITION PAGE 2-56, METHOD 2540 D - LIMIT 30 AVG, 100 MAX

OIL LAND GREASE - STANDARD METHODS 18th EDITION PAGE 5-24, METHOD 5520 B - LIMIT 15 AVG, 20 MAX

**** OIL AND GREASE ****

**** TSS ****

**** pH ****

SAMPLE DATE & TIME _____

SAMPLE VOL (ml) _____

SAMPLED BY _____

RECVD BY _____

DLVRD TO LAB BY _____

RECVD IN LAB BY _____

RECVD DATE & TIME _____

PRESERVATION _____

ANALYSIS DATE _____

ANALYSIS TIME _____

ANALYSIS VOL (ml) _____

ANALYZED BY _____

**** SAMPLE ****

FINAL CRUCIBLE WT (g) _____

EMPTY CRUCIBLE WT _____

WEIGHT DIFFERENCE _____

SAMPLE WT MINUS BLANK _____

WT DIFFERENCE _____

FINAL RESULT _____

**** DUPLICATE (1/MON) ****

FINAL CRUCIBLE WT _____

EMPTY CRUCIBLE WT _____

SAMPLE WT MINUS BLANK _____

WT DIFFERENCE _____

FINAL RESULT _____

**** BLANK ****

FINAL CRUCIBLE WT (g) _____

EMPTY CRUCIBLE WT _____

WEIGHT DIFFERENCE _____

FINAL O&G(mg/l) IS CALCULATED AS:

(SAMPLE WT DIFF-BLANK WT DIFF) X 1,000,000

ml OF SAMPLE

SAMPLE DATE & TIME _____

SAMPLE VOL (ml) _____

SAMPLED BY _____

RECVD BY _____

DLVRD TO LAB BY _____

RECVD IN LAB BY _____

RECVD DATE & TIME _____

PRESERVATION _____

ANALYSIS DATE _____

ANALYSIS TIME _____

ANALYSIS VOL (ml) _____

ANALYZED BY _____

**** SAMPLE ****

FINAL CRUCIBLE WT (g) _____

EMPTY CRUCIBLE WT _____

WEIGHT DIFFERENCE _____

EMPTY CRUCIBLE WT _____

WT DIFFERENCE _____

FINAL RESULT _____

WEIGHT DIFFERENCE _____

FINAL RESULT (mg/l) _____

**** DUPLICATE (2/MO) ****

FINAL CRUCIBLE WT (g) _____

WT DIFFERENCE _____

FINAL RESULT _____

EMPTY CRUCIBLE WT _____

WT DIFFERENCE _____

WEIGHT DIFFERENCE _____

WEIGHT DIFFERENCE _____

FINAL RESULT (mg/l) _____

FINAL TSS(mg/l) IS CALCULATED AS:

WEIGHT DIFFERENCE X 1,000,000

ml OF SAMPLE

SAMPLE DATE & TIME 1-30-08 7:50am

SAMPLE VOL (ml) 1000

SAMPLED BY C. McCamach

RECVD BY C. McCamach

DLVRD TO LAB BY C. McCamach

RECVD IN LAB BY C. McCamach

RECVD DATE & TIME 1-30-08 8:20am

PRESERVATION None

ANALYSIS DATE 1-30-08

ANALYSIS TIME 8:20am

ANALYSIS VOL (ml) 200

ANALYZED BY C. McCamach

**** SAMPLE ****

pH (S.U.) 8.05

TEMPERATURE (deg C) 15

**** DUPLICATE (1/MO) ****

pH (S.U.) 8.05

TEMPERATURE (deg C) 15

COMMENTS: pH

Also sampled at

Cric. 8.05

Post Ramp 8.13

CHAIN OF CUSTODY FORM - 1
INDIANAPOLIS POWER & LIGHT CO.
H.T. PRITCHARD GENERATING STATION
NPDES-WASTEWATER MONITORING

O & G----- GR
TSS----- 24 HR
pH----- GR

SAMPLE NO. HTP 103-013008-2
FLOW (MGD): _____

pH - STANDARD METHODS 18th EDITION PAGE 4-65, METHOD 4500-H+ - LIMIT 6.0 - 9.0

TOTAL SUSPENDED SOLIDS - STANDARD METHODS 18th EDITION PAGE 2-56, METHOD 2540 D - LIMIT 30 AVG, 100 MAX

OIL LAND GREASE - STANDARD METHODS 18th EDITION PAGE 5-24, METHOD 5520 B - LIMIT 15 AVG, 20 MAX

**** OIL AND GREASE ****

**** TSS ****

**** pH ****

SAMPLE DATE & TIME _____
SAMPLE VOL (ml) _____
SAMPLED BY _____
RECVD BY _____
DLVRD TO LAB BY _____
RECVD IN LAB BY _____
RECVD DATE & TIME _____
PRESERVATION _____
ANALYSIS DATE _____
ANALYSIS TIME _____
ANALYSIS VOL (ml) _____
ANALYZED BY _____

SAMPLE DATE & TIME _____
SAMPLE VOL (ml) _____
SAMPLED BY _____
RECVD BY _____
DLVRD TO LAB BY _____
RECVD IN LAB BY _____
RECVD DATE & TIME _____
PRESERVATION _____
ANALYSIS DATE _____
ANALYSIS TIME _____
ANALYSIS VOL (ml) _____
ANALYZED BY _____

SAMPLE DATE & TIME 1/30/08 11:49
SAMPLE VOL (ml) 1000
SAMPLED BY MRA
RECVD BY MRA
DLVRD TO LAB BY MRA
RECVD IN LAB BY MRA
RECVD DATE & TIME 1/31/08 12:19 P
PRESERVATION _____
ANALYSIS DATE 1/31/08
ANALYSIS TIME 12:35 P
ANALYSIS VOL (ml) 200
ANALYZED BY MRA

**** SAMPLE ****

**** SAMPLE ****

**** SAMPLE ****

FINAL CRUCIBLE WT (g) _____
EMPTY CRUCIBLE WT _____
WEIGHT DIFFERENCE _____
SAMPLE WT MINUS BLANK _____
WT DIFFERENCE _____
FINAL RESULT _____

FINAL CRUCIBLE WT (g) _____
EMPTY CRUCIBLE WT _____
WEIGHT DIFFERENCE _____
FINAL RESULT (mg/l) _____

pH (S.U.) 8.04
TEMPERATURE (deg C) 18.5
**** DUPLICATE (1/MO) ****
pH (S.U.) 8.11
TEMPERATURE (deg C) _____

**** DUPLICATE (1/MON) ****

WEIGHT DIFFERENCE _____
FINAL RESULT (mg/l) _____

**** DUPLICATE (2/MO) ****

FINAL CRUCIBLE WT _____
EMPTY CRUCIBLE WT _____
SAMPLE WT MINUS BLANK _____
WT DIFFERENCE _____
FINAL RESULT _____

FINAL CRUCIBLE WT (g) _____
EMPTY CRUCIBLE WT _____
WEIGHT DIFFERENCE _____
FINAL RESULT (mg/l) _____

**** BLANK ****

FINAL CRUCIBLE WT (g) _____
EMPTY CRUCIBLE WT _____
WEIGHT DIFFERENCE _____

EMPTY CRUCIBLE WT _____
WEIGHT DIFFERENCE _____
FINAL RESULT (mg/l) _____

FINAL O&G(mg/l) IS CALCULATED AS:

(SAMPLE WT DIFF-BLANK WT DIFF) X 1,000,000

ml OF SAMPLE

FINAL TSS(mg/l) IS CALCULATED AS:

WEIGHT DIFFERENCE X 1,000,000

ml OF SAMPLE

COMMENTS: PH TEMP
Biot RAMP 7.94 11.5
Circ 8.01 6.9

CHAIN OF CUSTODY FORM - 1
INDIANAPOLIS POWER & LIGHT CO.
H.T. PRITCHARD GENERATING STATION
NPDES-WASTEWATER MONITORING

O & G----- GR
TSS----- 24 HR
pH----- GR

SAMPLE NO. HTP 103-013167-3
FLOW (MGD): _____

pH - STANDARD METHODS 18th EDITION PAGE 4-65, METHOD 4500-H+ - LIMIT 6.0 - 9.0

TOTAL SUSPENDED SOLIDS - STANDARD METHODS 18th EDITION PAGE 2-56, METHOD 2540 D - LIMIT 30 AVG, 100 MAX

OIL LAND GREASE - STANDARD METHODS 18th EDITION PAGE 5-24, METHOD 5520 B - LIMIT 15 AVG, 20 MAX

**** OIL AND GREASE ****

**** TSS ****

**** pH ****

SAMPLE DATE & TIME _____
SAMPLE VOL (ml) _____
SAMPLED BY _____
RECVD BY _____
DLVRD TO LAB BY _____
RECVD IN LAB BY _____
RECVD DATE & TIME _____
PRESERVATION _____
ANALYSIS DATE _____
ANALYSIS TIME _____
ANALYSIS VOL (ml) _____
ANALYZED BY _____

SAMPLE DATE & TIME _____
SAMPLE VOL (ml) _____
SAMPLED BY _____
RECVD BY _____
DLVRD TO LAB BY _____
RECVD IN LAB BY _____
RECVD DATE & TIME _____
PRESERVATION _____
ANALYSIS DATE _____
ANALYSIS TIME _____
ANALYSIS VOL (ml) _____
ANALYZED BY _____

SAMPLE DATE & TIME 1-30-08 3:52 pm
SAMPLE VOL (ml) 1000
SAMPLED BY MRM
RECVD BY MRM
DLVRD TO LAB BY MRM
RECVD IN LAB BY C. McCannick
RECVD DATE & TIME 1-30-08 4:10 pm
PRESERVATION None
ANALYSIS DATE 1-30-08
ANALYSIS TIME 4:10 pm
ANALYSIS VOL (ml) 200
ANALYZED BY C. McCannick

**** SAMPLE ****

**** SAMPLE ****

**** SAMPLE ****

FINAL CRUCIBLE WT (g) _____
EMPTY CRUCIBLE WT _____
WEIGHT DIFFERENCE _____
SAMPLE WT MINUS BLANK _____
WT DIFFERENCE _____
FINAL RESULT _____

FINAL CRUCIBLE WT (g) _____
EMPTY CRUCIBLE WT _____
WEIGHT DIFFERENCE _____
FINAL RESULT (mg/l) _____

pH (S.U.) 8.05
TEMPERATURE (deg C) 15.7
**** DUPLICATE (1/MO) ****
pH (S.U.) _____
TEMPERATURE (deg C) _____

**** DUPLICATE (1/MON) ****

**** DUPLICATE (2/MO) ****

FINAL CRUCIBLE WT _____
EMPTY CRUCIBLE WT _____
SAMPLE WT MINUS BLANK _____
WT DIFFERENCE _____
FINAL RESULT _____

FINAL CRUCIBLE WT (g) _____
EMPTY CRUCIBLE WT _____
WEIGHT DIFFERENCE _____
FINAL RESULT (mg/l) _____

COMMENTS: PH
also sampled at
Circ. 8.13
But ramp 8.10

**** BLANK ****

FINAL CRUCIBLE WT (g) _____
EMPTY CRUCIBLE WT _____
WEIGHT DIFFERENCE _____

EMPTY CRUCIBLE WT _____
WEIGHT DIFFERENCE _____
FINAL RESULT (mg/l) _____

FINAL O&G(mg/l) IS CALCULATED AS:

(SAMPLE WT DIFF-BLANK WT DIFF) X 1,000,000

ml OF SAMPLE

EJS 02/24/95

FINAL TSS(mg/l) IS CALCULATED AS:

WEIGHT DIFFERENCE X 1,000,000

ml OF SAMPLE

