September 13, 2004
Dry Weather Event

CHAIN OF CUSTODY RECORD

PROJ. NO	PROJECT NAME
200406.00	ECC-205 (j)

SAMPLERS: (Print Name & Sign)
Christopher J. Jeter

FIELD ID	DATE	TIME	COMP	GRAB	STATION LOCATION	Total No. of Containers	e-coli	TSS, NO_3, Surf.	NH_3, TKN, Ortho P, T. Phos.	SP Cond.				Sample Type	Lab Order ID TAT	Lab Order ID Lab Number
01	9/13			X		3	1	1	1							
02						3	1	1	1							
03						3										
04						3										
05						3										
06						3										
Dup.						3										
Blank					Rinse Water	3										

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	EIS QUOTE NO:
[signature]	9-13-04	11:45am	[signature]	Lawson-Fisher
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Ship To:
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	

NOTES: 1) **If you were issued a quote number, it must appear on this document.**
2) Instructions & area for comments are on reverse side.

EIS ANALYTICAL SERVICES, INC. • 1701 NORTH IRONWOOD DRIVE SUITE B • SOUTH BEND IN 46635 • Phone (574)277-0707 • Fax (574)273-5699
Form: Chain-of-Custody (6-12-97)

COMPLETE FORM WITH PERMANENT INK ONLY

Lawson-Fisher Associates P.C.
525 West Washington Avenue
South Bend, Indiana 46601
Ph. 574-234-3167
FAX 574-236-1330

WATER QUALITY ACQUISITION DATA SHEET

Project: Elkhart County 205(j) Grant
Puterbaugh Creek – Heaton Lake

Job Number: 200406

Date: 9/13/2004

Time: 1000 hrs. (MI) (0900 IN)

Crew: CJS, PCK, RME

Weather: Sunny

Ambient Temp.: 24.5° C

STREAM INFORMATION

Watershed ID: HUC #040500011500 40

Stream/Lake Name: Rhineheart Lateral

Site Location: #01 upstream

Width (ft.): 7.7

Depth (ft.): DTW = DTB = Water Depth = 1.2

GPS ID No.:

Location Sketch
C.R. _____ Facing _____

SAMPLE INFORMATION

pH: 8.1

Temp (°C): 14.9

Cond. (µS):

TDS (ppm):

Color: light brown

D.O. (m): 7.27 (mg/L) 72.0 (%)

Sample Type: Kemmerer (Grab)

Sample Number(s): 01-9/13/04

Bottle Numbers:

Comments:

Chain of Custody:

Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		
Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		

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WATER QUALITY ACQUISITION DATA SHEET

Project: Elkhart County 205(j) Grant
Puterbaugh Creek – Heaton Lake

Job Number: 200406

Date: 9/13/2004
Time: 1010 hrs. MI (09/01 IN)

Crew: CJJ, PCK, RME

Weather: sunny

Ambient Temp.: 24.5°C

STREAM INFORMATION

Watershed ID: HUC #040500091150040

Stream/Lake Name: Kinsig / Kellog

Site Location: #02

Width (ft.): 21'

Depth (ft.): DTW = DTB = Water Depth = 1.4'

GPS ID No.:

Location Sketch
C.R. _____ Facing _____

SAMPLE INFORMATION

pH: 7.4

Temp (°C): 16.3

Cond. (µS):

TDS (ppm):

Color: light brown

D.O. (m): 0.26 (mg/L) 2.6 (%)

Sample Type: Kemmerer (Grab)

Sample Number(s): 02-9/13/04

Bottle Numbers:

Comments:

Chain of Custody:

Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		
Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		

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WATER QUALITY ACQUISITION DATA SHEET

Project: Elkhart County 205(j) Grant
Puterbaugh Creek – Heaton Lake

Job Number: 200406

Date: 9/13/2004
Time: 0940 hrs.

Crew: CJJ, ACK, RME

Weather: Sunny

Ambient Temp.: 24.5°C

STREAM INFORMATION

Watershed ID: HUC #04050001150040

Stream/Lake Name: Mather Ditch

Site Location: #03

Width (ft.): 14'

Depth (ft.): DTW = DTB = Water Depth = 1'

GPS ID No.:

Location Sketch
C.R. _____ Facing _____

SAMPLE INFORMATION

pH: 8.2

Temp (°C): 22.1

Cond. (µS):

TDS (ppm):

Color: Clear

D.O. (m): 9.9 (mg/L) 113.5 (%)

Sample Type: Kemmerer (Grab)

Sample Number(s): #03-9/13/04

Bottle Numbers:

Comments:

Chain of Custody:

Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		
Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		

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WATER QUALITY ACQUISITION DATA SHEET

Project: Elkhart County 205(j) Grant
Puterbaugh Creek – Heaton Lake

Job Number: 200406

Date: 9/13/2004
Time: 0930 hrs.

Crew: CJJ, PCK, RME

Weather: sunny

Ambient Temp.: 24.5°C

STREAM INFORMATION

Watershed ID: HUC #040500011500 40

Stream/Lake Name: Bishop Ditch

Site Location: #04

Width (ft.): 12.8

Depth (ft.): DTW = DTB = Water Depth = 1.6

GPS ID No.:

Location Sketch
C.R. _____ Facing _____

SAMPLE INFORMATION

pH: 7.7

Temp (°C): 14.8

Cond. (µS):

TDS (ppm):

Color: yellowish - green

D.O. (m): 1.12 (mg/L) 10.9 (%)

Sample Type: Kemmerer (Grab)

Sample Number(s): #04 - 9/13/04

Bottle Numbers:

Comments:

Chain of Custody:

Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		
Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		

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South Bend, Indiana 46601
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WATER QUALITY ACQUISITION DATA SHEET

Project: Elkhart County 205(j) Grant
Puterbaugh Creek – Heaton Lake

Date: 9/3/2004
Time: 0955 hrs.

Job Number: 200406

Crew: CJJ, PCK, RME

Weather: Sunny

Ambient Temp.: 24.5°C

STREAM INFORMATION

Watershed ID: HUC #040500011500 40

Stream/Lake Name: Jacob Myers Ditch

Site Location: #05

Width (ft.): 24'

Depth (ft.): DTW = DTB = Water Depth = 0.85'

GPS ID No.:

Location Sketch
C.R. _____ Facing _____

SAMPLE INFORMATION

pH: 8.0

Temp (°C): 18.3

Cond. (µS):

TDS (ppm):

Color: clear (some debris)

D.O. (m): 7.04 (mg/L) 74.8 (%)

Sample Type: Kemmerer (Grab)

Sample Number(s): #05 - 9/3/04

Bottle Numbers:

Comments:

Chain of Custody:

Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		
Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		

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FAX 574-236-1330

WATER QUALITY ACQUISITION DATA SHEET

Project: Elkhart County 205(j) Grant
Puterbaugh Creek – Heaton Lake

Date: 9/13/2004
Time: 1010 hrs.

Job Number: 200406

Crew: CJJ, PCK, RME

Weather: Sunny

Ambient Temp.: 24.5°C

STREAM INFORMATION

Watershed ID: HUC #04050001150040

Stream/Lake Name: Puterbaugh Creek

Site Location: #06

Width (ft.): 19'

Depth (ft.): DTW = DTB = Water Depth = 0.75'

GPS ID No.:

Location Sketch
C.R. _____ Facing _____

SAMPLE INFORMATION

pH: 8.0

Temp (°C): 16.9

Cond. (µS):

TDS (ppm):

Color: clear

D.O. (m): 7.59 (mg/L) 78.3 (%)

Sample Type: Kemmerer (Grab)

Sample Number(s): 06- 9/13/04

Bottle Numbers:

Comments:

Chain of Custody:

Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		
Relinquished By:	Date	Time	Received By:	Date	Time
Signature			Signature		
Printed			Printed		

INVENTORY CHECKLIST
Elkhart County – 205(j) Grant
Puterbaugh Creek – Heaton Lake Watershed Management Plan
Water Quality Monitoring Program

Item		Item is still in Possession (Y/N)	Functioning Properly? (Y/N)
1.	D.O. Meter	Y	Y
2.	Hanna MultiMeter	Y	N
3.	Calibration Records/Forms	Y	
4.	Custody/Sampling Forms	Y	
5.	Meter Tape	Y	
6.	Water Level Indicator	Y	
7.	Kemmerer Sampler	Y	NA-grab samples
8.	EIS Sampling Bottles	Y	
9.	Sample Labels, etc.	Y	
10.	Rubber Bands		
11.	DI Water (2 Gal.)		
12.	Ice Chest/Ice	Y	
13.	Cellular Phone	Y	
14.	Rubber Gloves	Y	
15.	Paper Towels/Cloth Towels	Y	
16.	Life Jackets (if in boat)	Y	
17.	Clip Board	Y	
18.	Pens/Pencils (Sharpies)	Y	
19.	9 AA Size Batteries	Y	
20.	First Aid Kit		
21.	LFA Safety Program		
22.	Elkhart County 205(j) QAPP	Y	
23.	Elkhart County Road Map	Y	
24.	Puterbaugh Creek – Heaton Lake Watershed Map	Y	
25.	Sampling Site Pics/Descriptions	Y	
26.	Safety Glasses		
	bucket w/rope		

Comments: _____

Date of Inventory: 9-13-04

Signature: [signature]

REPORT OF ANALYSIS

Christopher J. Jeter, P.E.
Lawson-Fisher Associates
525 West Washington Street
South Bend, IN 46601
Tel No: 234-3167
Fax No: 236-1330
PO No:
Project Name: ECC-205 (j)

Report Date:	10/12/04
EIS Order No:	**040900127**
EIS Sample No:	098942
EIS Project No:	1091-1001-04
Client Sample ID:	**01**
Date Collected:	9/13/04
Date Received:	9/13/04
Collected By:	Client

This report presents results of analysis for your sample(s) received under our Order No above. This Number is to be used in all inquiries concerning this report. The EIS Sample No above, as well as your Sample ID, refer to the first sample in a multi-sample submission

DEFINITIONS:

MDL = Method Detection Limit normally achieved in the absence of interferences or other matrix difficulties.
RDL = Reporting Detection Limit achieved in your sample. If numerically greater than the MDL, dilutions were required in order to perform the analysis. If numerically less than the MDL, alternate techniques were employed.
nd = Not Detected at the RDL value. If present, result is less than this value.
< = Not Detected at the numerical value shown. If present, result is less than this value.
( ) = Result is estimated due to matrix interferences.

CHAIN-OF-CUSTODY is enclosed if received with your sample submission.

DRINKING WATER CERTIFICATIONS: Chemistry = C-71-02 Bacteriology = M-76-5

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR

The data in this report has been reviewed and complies with EIS Quality Control unless specifically addressed above.

SAMPLE RESULTS

CLIENT SAMPLE ID: 01
CLIENT PROJECT: ECC-205 (j)
SAMPLE TYPE: Water(Non DW)
Date Sampled: 9/13/04

Report Date: 10/12/04
EIS Sample No: 098942
EIS Order No: 040900127
Date Received: 9/13/04

Parameter	Results	Units	RDL	MDL	Test Date	Analyst ID	Method
Coliform,E.Coli	700	col/100ml	1	1	9/13/04	E25	ColiscanMF
Nitrogen(Kjeldahl)Total	3.2	mg/L	0.1	0.1	9/21/04	E03	4500-N B
Nitrogen(Ammonia)	<0.05	mg/L	0.05	0.05	9/21/04	E03	4500-NH3
Nitrogen(Nitrate)	0.68	mg/L	0.1	0.1	9/17/04	E03	4500-NO3
Phosphorus,ortho	0.09	mg/L	0.05	0.05	9/14/04	E03	4500-P F
Phosphorus,Total	0.29	mg/L	0.05	0.05	9/21/04	E03	4500-P F
Solids,Total Dissolved	370	mg/L	4	2	9/17/04	E21	2540 C
Solids,Total Suspended	140	mg/L	1	1	9/16/04	E21	2540 D
Specific Conductance	580	umhos/cm	1	1	9/20/04	E25	2510 B
Surfactants (MBAS)	0.27	mg/L	0.1	0.1	9/15/04	E21	5540 C

SAMPLE RESULTS

CLIENT SAMPLE ID: 02
CLIENT PROJECT: ECC-205 (j)
SAMPLE TYPE: Water(Non DW)
Date Sampled: 9/13/04

Report Date: 10/12/04
EIS Sample No: 098943
EIS Order No: 040900127
Date Received: 9/13/04

Parameter	Results	Units	RDL	MDL	Test Date	Analyst ID	Method
Coliform,E.Coli	84	col/100ml	1	1	9/13/04	E25	ColiscanMF
Nitrogen(Kjeldahl)Total	1.8	mg/L	0.1	0.1	9/21/04	E03	4500-N B
Nitrogen(Ammonia)	<0.05	mg/L	0.05	0.05	9/21/04	E03	4500-NH3
Nitrogen(Nitrate)	<0.1	mg/L	0.1	0.1	9/17/04	E03	4500-NO3
Phosphorus,ortho	<0.05	mg/L	0.05	0.05	9/14/04	E03	4500-P F
Phosphorus,Total	0.24	mg/L	0.05	0.05	9/21/04	E03	4500-P F
Solids,Total Dissolved	330	mg/L	4	2	9/17/04	E21	2540 C
Solids,Total Suspended	8	mg/L	1	1	9/16/04	E21	2540 D
Specific Conductance	410	umhos/cm	1	1	9/20/04	E25	2510 B
Surfactants (MBAS)	0.27	mg/L	0.1	0.1	9/15/04	E21	5540 C

SAMPLE RESULTS

CLIENT SAMPLE ID: 03
CLIENT PROJECT: ECC-205 (j)
SAMPLE TYPE: Water(Non DW)
Date Sampled: 9/13/04

Report Date: 10/12/04
EIS Sample No: 098944
EIS Order No: 040900127
Date Received: 9/13/04

Parameter	Results	Units	RDL	MDL	Test Date	Analyst ID	Method
Coliform,E.Coli	11	col/100ml	1	1	9/13/04	E25	ColiscanMF
Nitrogen(Kjeldahl)Total	0.23	mg/L	0.1	0.1	9/21/04	E03	4500-N B
Nitrogen(Ammonia)	<0.05	mg/L	0.05	0.05	9/21/04	E03	4500-NH3
Nitrogen(Nitrate)	<0.1	mg/L	0.1	0.1	9/17/04	E03	4500-NO3
Phosphorus,ortho	<0.05	mg/L	0.05	0.05	9/14/04	E03	4500-P F
Phosphorus,Total	0.23	mg/L	0.05	0.05	9/21/04	E03	4500-P F
Solids,Total Dissolved	280	mg/L	4	2	9/17/04	E21	2540 C
Solids,Total Suspended	<1	mg/L	1	1	9/16/04	E21	2540 D
Specific Conductance	410	umhos/cm	1	1	9/20/04	E25	2510 B
Surfactants (MBAS)	0.20	mg/L	0.1	0.1	9/15/04	E21	5540 C

SAMPLE RESULTS

CLIENT SAMPLE ID: 04
CLIENT PROJECT: ECC-205 (j)
SAMPLE TYPE: Water(Non DW)
Date Sampled: 9/13/04

Report Date: 10/12/04
EIS Sample No: 098945
EIS Order No: 040900127
Date Received: 9/13/04

Parameter	Results	Units	RDL	MDL	Test Date	Analyst ID	Method
Coliform,E.Coli	230	col/100ml	1	1	9/13/04	E25	ColiscanMF
Nitrogen(Kjeldahl)Total	0.62	mg/L	0.1	0.1	9/21/04	E03	4500-N B
Nitrogen(Ammonia)	<0.05	mg/L	0.05	0.05	9/21/04	E03	4500-NH3
Nitrogen(Nitrate)	<0.1	mg/L	0.1	0.1	9/17/04	E03	4500-NO3
Phosphorus,ortho	0.15	mg/L	0.05	0.05	9/14/04	E03	4500-P F
Phosphorus,Total	0.23	mg/L	0.05	0.05	9/21/04	E03	4500-P F
Solids,Total Dissolved	340	mg/L	4	2	9/17/04	E21	2540 C
Solids,Total Suspended	2	mg/L	1	1	9/16/04	E21	2540 D
Specific Conductance	520	umhos/cm	1	1	9/20/04	E25	2510 B
Surfactants (MBAS)	0.10	mg/L	0.1	0.1	9/15/04	E21	5540 C

SAMPLE RESULTS

CLIENT SAMPLE ID: 05
CLIENT PROJECT: ECC-205 (j)
SAMPLE TYPE: Water(Non DW)
Date Sampled: 9/13/04

Report Date: 10/12/04
EIS Sample No: 098946
EIS Order No: 040900127
Date Received: 9/13/04

Parameter	Results	Units	RDL	MDL	Test Date	Analyst ID	Method
Coliform,E.Coli	110	col/100ml	1	1	9/13/04	E25	ColiscanMF
Nitrogen(Kjeldahl)Total	0.64	mg/L	0.1	0.1	9/21/04	E03	4500-N B
Nitrogen(Ammonia)	<0.05	mg/L	0.05	0.05	9/21/04	E03	4500-NH3
Nitrogen(Nitrate)	<0.1	mg/L	0.1	0.1	9/17/04	E03	4500-NO3
Phosphorus,ortho	0.07	mg/L	0.05	0.05	9/14/04	E03	4500-P F
Phosphorus,Total	0.28	mg/L	0.05	0.05	9/21/04	E03	4500-P F
Solids,Total Dissolved	310	mg/L	4	2	9/17/04	E21	2540 C
Solids,Total Suspended	2	mg/L	1	1	9/16/04	E21	2540 D
Specific Conductance	490	umhos/cm	1	1	9/20/04	E25	2510 B
Surfactants (MBAS)	<0.1	mg/L	0.1	0.1	9/15/04	E21	5540 C

SAMPLE RESULTS

CLIENT SAMPLE ID: 06
CLIENT PROJECT: ECC-205 (j)
SAMPLE TYPE: Water(Non DW)
Date Sampled: 9/13/04

Report Date: 10/12/04
EIS Sample No: 098947
EIS Order No: 040900127
Date Received: 9/13/04

Parameter	Results	Units	RDL	MDL	Test Date	Analyst ID	Method
Coliform,E.Coli	280	col/100ml	1	1	9/13/04	E25	ColiscanMF
Nitrogen(Kjeldahl)Total	0.43	mg/L	0.1	0.1	9/21/04	E03	4500-N B
Nitrogen(Ammonia)	<0.05	mg/L	0.05	0.05	9/21/04	E03	4500-NH3
Nitrogen(Nitrate)	0.15	mg/L	0.1	0.1	9/17/04	E03	4500-NO3
Phosphorus,ortho	0.074	mg/L	0.05	0.05	9/14/04	E03	4500-P F
Phosphorus,Total	0.21	mg/L	0.05	0.05	9/21/04	E03	4500-P F
Solids,Total Dissolved	300	mg/L	4	2	9/17/04	E21	2540 C
Solids,Total Suspended	12	mg/L	1	1	9/16/04	E21	2540 D
Specific Conductance	500	umhos/cm	1	1	9/20/04	E25	2510 B
Surfactants (MBAS)	<0.1	mg/L	0.1	0.1	9/15/04	E21	5540 C

SAMPLE RESULTS

CLIENT SAMPLE ID: Duplicate
CLIENT PROJECT: ECC-205 (j)
SAMPLE TYPE: Water(Non DW)
Date Sampled: 9/13/04

Report Date: 10/12/04
EIS Sample No: 098948
EIS Order No: 040900127
Date Received: 9/13/04

Parameter	Results	Units	RDL	MDL	Test Date	Analyst ID	Method
Coliform,E.Coli	56	col/100ml	1	1	9/13/04	E25	ColiscanMF
Nitrogen(Kjeldahl)Total	2.8	mg/L	0.1	0.1	9/21/04	E03	4500-N B
Nitrogen(Ammonia)	<0.05	mg/L	0.05	0.05	9/21/04	E03	4500-NH3
Nitrogen(Nitrate)	<0.1	mg/L	0.1	0.1	9/17/04	E03	4500-NO3
Phosphorus,ortho	<0.05	mg/L	0.05	0.05	9/14/04	E03	4500-P F
Phosphorus,Total	0.24	mg/L	0.05	0.05	9/21/04	E03	4500-P F
Solids,Total Dissolved	330	mg/L	4	2	9/17/04	E21	2540 C
Solids,Total Suspended	5	mg/L	1	1	9/16/04	E21	2540 D
Specific Conductance	410	umhos/cm	1	1	9/20/04	E25	2510 B
Surfactants (MBAS)	0.20	mg/L	0.1	0.1	9/15/04	E21	5540 C

SAMPLE RESULTS

CLIENT SAMPLE ID: Rinse Water
CLIENT PROJECT: ECC-205 (j)
SAMPLE TYPE: Water(Non DW)
Date Sampled: 9/13/04

Report Date: 10/12/04
EIS Sample No: 098949
EIS Order No: 040900127
Date Received: 9/13/04

Parameter	Results	Units	RDL	MDL	Test Date	Analyst ID	Method
Coliform,E.Coli	<1	col/100ml	1	1	9/13/04	E25	ColiscanMF
Nitrogen(Kjeldahl)Total	<0.1	mg/L	0.1	0.1	9/21/04	E03	4500-N B
Nitrogen(Ammonia)	<0.05	mg/L	0.05	0.05	9/16/04	E03	4500-NH3
Nitrogen(Nitrate)	<0.1	mg/L	0.1	0.1	9/17/04	E03	4500-NO3
Phosphorus,ortho	<0.05	mg/L	0.05	0.05	9/14/04	E03	4500-P F
Phosphorus,Total	0.13	mg/L	0.05	0.05	9/21/04	E03	4500-P F
Solids,Total Dissolved	10	mg/L	4	2	9/17/04	E21	2540 C
Solids,Total Suspended	<1	mg/L	1	1	9/16/04	E21	2540 D
Specific Conductance	<1	umhos/cm	1	1	9/20/04	E25	2510 B
Surfactants (MBAS)	<0.1	mg/L	0.1	0.1	9/15/04	E21	5540 C

QUALITY CONTROL DATA

LABORATORY FORTIFIED METHOD BLANK (LFB)

Matrix: Water

Test: Inorganics

Run Date:

EIS Lab #s With This LFB

98942-98949

Comments Concerning This LFB:

Parameter	Spike Amount	Matrix Spike		Duplicate Spike		RPD	Quality Control Limits RPD LCL	Quality Control Limits RPD UCL	Quality Control Limits % R LCL	Quality Control Limits % R UCL	QC Batch
		Result	% R	Result	% R						
Nitrogen(Nitrate)	7.1	7.134	100	7.225	102	1	0	20	80	120	QB03828
Phosphorus,ortho	0.82	0.700	85	0.658	80	6	0	20	80	120	QB03828
Nitrogen(Ammonia)	4.4	4.241	96	4.135	94	3	0	20	80	120	QB03836
Nitrogen(Kjeldahl)Total	2.4	2.348	98	2.141	89	9	0	20	80	120	QB03836
Phosphorus,Total	4.84	4.223	87	4.204	87	0	0	20	80	120	QB03836

LEGEND:

1. The LFB may be either a single spike or in dulicate and may or may not be in a QC Batch with a MS/DMS.
2. % R = Percent Recovery of Spike
3. RPD = Relative Percent Difference of the spike recoveries
4. LCL = Lower Control Limit
5. UCL = Upper Control Limit
6. Units are normally those shown in the Analysis Report and are always the same for the Spike and Duplicate Spike

QUALITY CONTROL DATA
METHOD BLANK RESULTS

Test: Inorganics

Matrix: Water

EIS Lab Numbers: 98942-98949

Comments :

Parameter	Result	Units	Date Analyzed	QC Batch	Detection Limit
Nitrogen(Nitrate)	<0.1	mg/L	9/17/04	QB03828	0.1
Phosphorus,ortho	<0.05	mg/L	9/14/04	QB03828	0.05
Coliform,E.Coli	1	col/100ml	9/13/04	QB03836	1
Nitrogen(Ammonia)	<0.05	mg/L	9/21/04	QB03836	0.05
Nitrogen(Kjeldahl)Total	<0.1	mg/L	9/21/04	QB03836	0.1
Phosphorus,Total	<0.05	mg/L	9/21/04	QB03836	0.05
Solids,Total Suspended	<1	mg/L	9/16/04	QB03836	1
Surfactants (MBAS)	<0.1	mg/L	9/15/04	QB03836	0.1

QUALITY CONTROL DATA

MATRIX SPIKE / DUPLICATE MATRIX SPIKE (MS/DMS)

EIS Order: 040900127
QC Sample: 098948
Matrix: Water
Test: Inorganics

EIS Lab #s in This Batch: 98942-98949

Comments Concerning This QC Batch:

Parameter	Back-ground	Spike Amount	Matrix Spike		Duplicate Spike		RPD	Quality Control Limits				QC Batch
								RPD		% R		
			Result	% R	Result	% R		LCL	UCL	LCL	UCL	
Nitrogen(Ammonia)	<0.05	10						0	20	75	125	QB03828
Nitrogen(Kjeldahl)Total	2.8							0	20	75	125	QB03828
Nitrogen(Nitrate)	<0.1	5	4.902	98	4.913	98	0	0	20	75	125	QB03828
Phosphorus,ortho	<0.05	2	1.663	83	1.771	89	6	0	20	75	125	QB03828
Phosphorus,Total	0.24							0	20	75	125	QB03828
Nitrogen(Ammonia)	<0.05	10	9.258	93	9.453	95	2	0	20	75	125	QB03836
Nitrogen(Kjeldahl)Total	2.8	5	5.8002	60	5.822	60	1	0	20	75	125	QB03836
Nitrogen(Nitrate)	<0.1							0	20	75	125	QB03836
Phosphorus,ortho	<0.05							0	20	75	125	QB03836
Phosphorus,Total	0.24	2	2.087	92	2.235	100	8	0	20	75	125	QB03836

LEGEND:

1. Background = Sample Result
2. Spike amount may be adjusted for dilution used in sample analysis
3. % R = Percent Recovery of Spike
4. RPD = Relative Percent Difference of the spike recoveries
5. LCL = Lower Control Limit
6. UCL = Upper Control Limit
7. Units are normally those shown in the Analysis Report and are always the same for the Background and Spike

QUALITY CONTROL DATA

REPLICATE ANALYSIS - SEPARATE DIGESTIONS / EXTRACTIONS

EIS Order: 040900127
QC Sample: 098948
Matrix: Water

Comments Concerning This Analysis:

Parameter	Units	Original Analysis	Replicate Analysis	RPD	Advisory QC Limits	QC Batch
Coliform,E.Coli	col/100ml	56			0 - 20	QB03828
Nitrogen(Ammonia)	mg/L	<0.05			0 - 20	QB03828
Nitrogen(Kjeldahl)Total	mg/L	2.8			0 - 20	QB03828
Nitrogen(Nitrate)	mg/L	<0.1	<0.1	0.0	0 - 20	QB03828
Phosphorus,ortho	mg/L	<0.05	<0.05	0.0	0 - 20	QB03828
Phosphorus,Total	mg/L	0.24			0 - 20	QB03828
Solids,Total Suspended	mg/L	5			0 - 20	QB03828
Surfactants (MBAS)	mg/L	0.20		200.0	0 - 20	QB03828
Coliform,E.Coli	col/100ml	56			0 - 20	QB03836
Nitrogen(Ammonia)	mg/L	<0.05	<0.05	0.0	0 - 20	QB03836
Nitrogen(Kjeldahl)Total	mg/L	2.8	3.1	10.2	0 - 20	QB03836
Nitrogen(Nitrate)	mg/L	<0.1			0 - 20	QB03836
Phosphorus,ortho	mg/L	<0.05			0 - 20	QB03836
Phosphorus,Total	mg/L	0.24	0.24	0.0	0 - 20	QB03836
Solids,Total Suspended	mg/L	5	5	0.0	0 - 20	QB03836
Surfactants (MBAS)	mg/L	0.20	0.20	0.0	0 - 20	QB03836

LEGEND:

1. RPD = Relative Percent Difference
2. Advisory QC Limits may not be applicable when results are close to the Sample Detection Limits.

CHAIN OF CUSTODY RECORD

PROJ. NO	PROJECT NAME	Total No. of Containers	Lab Order ID
200406.00	ECC-205 (j)		0409.127

SAMPLERS: (Print Name & Sign)
Christopher J. Jeter

FIELD ID	DATE	TIME	COMP	GRAB	STATION LOCATION	Total No. of Containers	ecoli	TSS, NO3, Surf.	NH3, TKN, Ortho P, T. Phos	Sp. Cond.				Sample Type	TAT	Lab Number
01	9/13			X		3	1	1	1							98942
02						3	1	1	1							98943
03						3	1	1	1							98944
04						3	1	1	1							98945
05						3	1	1	1							98946
06						3	1	1	1							98947
Dup.						3	1	1	1							98948
Blank					Rinse Water	3	1	1	1							98949

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	EIS QUOTE NO:
[signature]	9-13-04	11:45am	[signature]	Lawson-Fisher
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Ship To:
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	

NOTES: 1) **If you were issued a quote number, it must appear on this document.**
2) Instructions & area for comments are on reverse side.

EIS ANALYTICAL SERVICES, INC. • 1701 NORTH IRONWOOD DRIVE SUITE B • SOUTH BEND IN 46635 • Phone (574)277-0707 • Fax (574)273-5699
Form: Chain-of-Custody (6-12-97)