



Microbac Laboratories, Inc., Louisville

CERTIFICATE OF ANALYSIS

L811634

Dry Ridge, City of

Project Name: WW - Quarterly

Ken Little
P.O. Box 145
Dry Ridge, KY 41035

Project / PO Number: N/A
Received: 09/26/2018
Reported: 10/16/2018

Case Narrative

Microbac Laboratories, Inc. - Chicagoland

The following sample required dilution for the 608 analysis due to matrix interference. Reporting limits have been adjusted to reflect the dilution level.

Table with 2 columns: Laboratory ID, Sample Name. Row 1: 1811842-01, L811634-01 (Influent - Old High School)

Analytical Testing Parameters

Table with 4 columns: Client Sample ID, Sample Matrix, Lab Sample ID, Collected By, Collection Date. Values: Influent - Old High School, Wastewater, L811634-01, CUSTOMER, 09/26/2018 13:00

Main analytical results table with columns: Wet Chemistry, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Includes methods like EPA 1664B, SM 3500 CR-B, SM 4500 NH3 G, SM 5210 B, USGS I-3765-85, EPA 300.0, EPA 200.7.



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Client Sample ID: Influent - Old High School	Collected By: CUSTOMER
Sample Matrix: Wastewater	Collection Date: 09/26/2018 13:00
Lab Sample ID: L811634-01	

Metals, Total by EPA 200/6000/7000 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Cadmium	<0.0050		0.0050	mg/L		09/28/18 1517	10/02/18 2040	JSW
Chromium	<0.0050		0.0050	mg/L		09/28/18 1517	10/02/18 2040	JSW
Copper	0.027		0.010	mg/L		09/28/18 1517	10/02/18 2040	JSW
Lead	<0.0050		0.0050	mg/L		09/28/18 1517	10/02/18 2040	JSW
Nickel	<0.0050		0.0050	mg/L		09/28/18 1517	10/02/18 2040	JSW
Silver	<0.0050		0.0050	mg/L		09/28/18 1517	10/02/18 2040	JSW
Zinc	0.043		0.0050	mg/L		09/28/18 1517	10/03/18 2129	JSW

Analyses Subcontracted to: Microbac Laboratories, Inc. - Chicagoland

GC Semivolatiles	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 608 Rev 7/95								
Aroclor 1016	<5.7		5.7	µg/L		10/01/18 0852	10/03/18 2332	ALS
Aroclor 1221	<5.7		5.7	µg/L		10/01/18 0852	10/03/18 2332	ALS
Aroclor 1232	<5.7		5.7	µg/L		10/01/18 0852	10/03/18 2332	ALS
Aroclor 1242	<5.7		5.7	µg/L		10/01/18 0852	10/03/18 2332	ALS
Aroclor 1248	<5.7		5.7	µg/L		10/01/18 0852	10/03/18 2332	ALS
Aroclor 1254	<5.7		5.7	µg/L		10/01/18 0852	10/03/18 2332	ALS
Aroclor 1260	<5.7		5.7	µg/L		10/01/18 0852	10/03/18 2332	ALS
Aroclor 1262	<5.7		5.7	µg/L		10/01/18 0852	10/03/18 2332	ALS
Aroclor 1268	<5.7		5.7	µg/L		10/01/18 0852	10/03/18 2332	ALS
Surrogate: Decachlorobiphenyl	50.0	Limit: 25.7-116		% Rec		10/01/18 0852	10/03/18 2332	ALS
Surrogate: Tetrachloro-m-xylene	50.0	Limit: 39.7-130		% Rec		10/01/18 0852	10/03/18 2332	ALS
Total PCB's	<5.7		5.7	µg/L		10/01/18 0852	10/03/18 2332	ALS

Metals	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 245.1 Rev 3.0								
Mercury	<0.00020		0.00020	mg/L		10/03/18 0624	10/03/18 1021	JNH

Wet Chemistry	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 420.4 Rev 1.0								
Phenolics, Total Recoverable	0.019		0.010	mg/L		10/01/18 1428	10/03/18 1311	GRI
Method: SM 4500-CN C/E-1999								
Cyanide, Total	<0.0050		0.0050	mg/L		10/01/18 0853	10/01/18 1527	EF

Results in bold have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.



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CERTIFICATE OF ANALYSIS

L811634

Definitions

- B3:** BOD blank is above specifications. The reported result may be an overestimate.
- BOD3:** BOD result obtained from an average of dilutions that show more than 30% difference.
- L1:** Lab Control Sample (LCS) recovery below lower Control Limit.
- L2:** Lab control sample (LCS) recovery above upper Control Limit.
- MDL:** Minimum Detection Limit
- RL:** Reporting Limit

Project Requested Certification(s)

Microbac Laboratories, Inc. - Chicagoland
75
90147

Kentucky EPPC analysis Underground Storage Tanks (k)
Kentucky Wastewater Laboratory Certification Program (j)

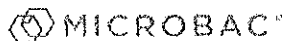
Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Anne Daniels
Quality Assurance Specialist
Reported: 10/16/2018 09:29



Kentucky Testing Division

3323 Gilmore Industrial Blvd. Louisville, KY 40213 502.962.6400 Fax: 502.962.6411
Evansville 812.464.9000 Lexington 859.276.3506 Paducah 270.898.3637 Hazard 606.487.0511



L8I1634 Anne Daniels

CHAIN OF CUSTODY

		Route	Freq.
Dry Ridge, City of		Cust. # E6072	Project WW - Quarterly
Ken Little		Phone (859) 824-3335	
P.O. Box 145		Fax (859) 824-3598	Cust. P.O.
Dry Ridge, KY 41035		Email klittlecdr@hotmail.com	Permit #
WW - Quarterly		Acct. Mgr. Anne Daniels	

Analysis	Method	Containers/Preservative	Suppress On COA	# Bottles	Units	Min	Max
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Instructions

01 Influent - Old High School Sample Date/Time/Field Results/Meter ID
 Type Composite 9-26-18 1300

Polychlorinated Biphenyls	EPA 608	A-1 LITER AMBER-4°C			ug/L		
CBOD, 5 Day	SM 5210 B	A-1 LITER PLASTIC - GEN CHEM-4°C			mg/L		
Solids, Total Suspended	USGS I-3765-85	A-1 LITER PLASTIC - GEN CHEM-4°C			mg/L		
Chromium, Hexavalent	SM 3500 CR- B	A-250 ML PLASTIC - GEN CHEM-4°C			mg/L		
Chloride	EPA 300.0	A-50 ML PLASTIC DIGITUBE-4°C			mg/L		
Arsenic	EPA 200.7	B-250 ML PLASTIC-METALS-HNO3	10 TOTAL		mg/L		
Cadmium	EPA 200.7	B-250 ML PLASTIC-METALS-HNO3		mg/L			
Chromium	EPA 200.7	B-250 ML PLASTIC-METALS-HNO3		mg/L			
Copper	EPA 200.7	B-250 ML PLASTIC-METALS-HNO3		mg/L			
Lead	EPA 200.7	B-250 ML PLASTIC-METALS-HNO3		mg/L			
Mercury	EPA 245.1	B-250 ML PLASTIC-METALS-HNO3		mg/L			
Nickel	EPA 200.7	B-250 ML PLASTIC-METALS-HNO3		mg/L			
Silver	EPA 200.7	B-250 ML PLASTIC-METALS-HNO3	mg/L				
Zinc	EPA 200.7	B-250 ML PLASTIC-METALS-HNO3	mg/L				
Phenolics, Tot. Recoverable	EPA 420.4	C-1 LITER AMBER PHENOL-H2SO4			mg/L		
Nitrogen, Ammonia	SM 4500 NH3 G	C-250 ML PLASTIC - H2SO4			mg/L		

O&G, Tot. & Hydrocarbon

Oil and Grease, Hydrocarbon	EPA 1664B	C-1 LITER O&G-H2SO4					
Oil and Grease, Total	EPA 1664B	C-1 LITER O&G-H2SO4					
Cyanide, Total	SM 4500 CN E	O-CYANIDE-NAOH 250 ML			mg/L		

Comp. Start Date/Time/Init: _____ Type: Time / Flow ISCO #: _____ Tubing: _____ Collect. Settings: _____
 Initial Flow Reading: _____ Gallons Observations at Setup: Sheen / Foam / Floating Objects / Color / _____
 Comp. Stop Date/Time/Init: _____ Volume Collected: _____ Liters
 Final Flow Reading: _____ Gallons Observations at Collection: Sheen / Foam / Floating Objects / Color / _____

*New collection bag used in all sampling containers. *New Pump tubing used for all sampling events.

SETUP: 4 Deg C Sunny/Cloudy/Pty Cloudy/Rain REC: _____ Deg C Sunny/Cloudy/Pty Cloudy/Rain Rain During Event: (YES) / NO

NOTES:

Relinq. Date/Time/Sign: [Signature] 9-26-18 14:40 Rec'd Date/Time/Sign: [Signature] 9-26-18 1440
 Relinq. Date/Time/Sign: _____ Rec'd Date/Time/Sign: Temp 24° L-10
 Relinq. Date/Time/Sign: _____ Rec'd Date/Time/Sign: _____
 Relinq. Date/Time/Sign: _____ Rec'd Date/Time/Sign: _____

Sampled By: [Signature]



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CHAIN OF CUSTODY

SAMPLE RECEIPT DOCUMENTATION

Cooler/Sample Temp (Deg C): LEX 2.4°C EVW PAD LOU HAZ

COC & proper paperwork provided & complete / COC, samples, & bottles are in agreement:

Appropriate bottles provided intact with sufficient volume / Samples are within hold time / Samples properly preserved :

Chain of Custody seal intact? N/A Samples on Ice? YES Number of bottles 10 ? Thermometer ID L-10

YES / NO
YES / NO

Notes, Correspondence, Subcontracting, & Non-Conformance Documentation (All Non-Conformances must be documented & client notified) :