

Rives, Joyce

From: Lance Wealing <lance@wealingbros.com>
Sent: Tuesday, November 29, 2016 8:45 AM
To: IDEM LAReports
Subject: ELANCO ANIMAL HEALTH IDEM report permit 844 PBW october 2016
Attachments: lilly IDEM report permit 844 PBW october 2016.pdf

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Elanco Clinton Labs
October 2016
IDEM REPORT
Permit 844

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LANCE WEALING

WEALING BROTHERS LLC
Fowler, IN
(219)-261-2520- office
(219)-261-2531- fax

www.wealingbrothers.com

Clear
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Page

Indiana Department of Environmental Management

Solid Waste Permits Section - Office of Land Quality

Land Application Monthly Report - Pollutant-Bearing Water

>>Complete and submit this form to IDEM each report month<<

Clear
All
Pages

Month:	October	Year:	2016
Permittee	Elanco Animal Health, Clinton Labs	L.A. Permit No. IN LA:	844
Disposal Summary:			Gallons
<input type="checkbox"/>	No pollutant-bearing water was disposed this month		NA
<input checked="" type="checkbox"/>	Pollutant-bearing water was land applied this month		1796000
I hereby certify that to the best of my knowledge and understanding this report is complete and accurate.			
		Lance Wealing	
Signature		Printed Name	
Manager		11/27/2016	
Title		Date	

Indiana Department of Environmental Management

Solid Waste Permits Section - Office of Land Quality

Land Application Site Activity Report - Pollutant-Bearing Water

>>Complete and submit this form to IDEM for each application site used during a report month<<

Month:	October	Year:	2016
Permittee:	Elanco Animal Health Clinton Labs	Site ID:	Kaufman 4-7
L.A. Permit No. IN LA:	844	Acres Available:	132
		Acres Used This Month:	122

Date:	Loading Data:		Method Used* 1 or 2	Daily Analysis			Weekly Analysis 1-5	Monthly Analysis 1 or 2
	Gallons Applied	Acres Used		Susp Solids	Fecal Coliform	Residual Chlorine		
1								
2								
3								
4	220000	22	2				1	1
5	142000	14	2				1	1
6								
7								
8								
9								
10	200000	20	2				2	1
11								
12								
13	74000	7.5	2				3	1
14								
15								
16								
17	100000	10	2				4	1
18	240000	24	2				4	1
19	102000	10	2				4	1
20								
21								
22								
23								
24	255000	25.5	2				5	2
25								
26								
27								
28	213000	21	2				5	2
29								
30								
31	250000	25	2				5	2

Lab Data: DO NOT USE < IF NOT DETECTED

Weekly Analysis: ENTER DETECTION LIMIT!

ANALYSIS #	pH	BOD5*	Vol. Solids*
1	7.8	7336	6500
2	7.3	10485	6900
3	7.3	7270	8024
4	7.0	4329	5900
5	6.8	6169	5600

*Enter BOD5 and Volatile Solids as mg/l wet weight

Monthly Analysis: ANALYSIS #

	1	2	
Total N*	388.15	215.53	mg/l wet wt.
Ammonium N	284.00	135.00	mg/l wet wt.
Nitrate N	3.15	0.55	mg/l wet wt.
Phosphorus	486.00	1960.00	mg/l wet wt.
Potassium	978.00	1330.00	mg/l wet wt.

*Total N = Total Kjeldahl Nitrogen + Nitrate N

Annual Analysis:

Arsenic	0.010	mg/l wet wt.
Cadmium	0.002	mg/l wet wt.
Copper	0.064	mg/l wet wt.
Lead	0.007	mg/l wet wt.
Mercury	0.000	mg/l wet wt.
Nickel	0.024	mg/l wet wt.
Selenium	0.010	mg/l wet wt.
Zinc	0.290	mg/l wet wt.

Other Analysis:

PCB	0.14	mg/kg dry wt.
Other		
Other		

*Methods of Application: 1 = Surface, 2 = Injection

What is the projected crop(s) for which the above application(s) was intended to fertilize? **beans**

If more than one crop is listed, indicate on the site-use map the areas planted, or to be planted, in each different type of crop.

Has this application site been used for land application of any biosolids or industrial waste products within the past 365 day period?

Yes No If yes, by whom? **N/A**

Date of last soil analysis of this site **06/22/16**

pH range from last soil analysis of this site **5.59-7.01**

Date on which last soil pH adjustment was made on this site **N/A**

Kaufman 4-7



Google earth



 - 10/4/16 - 220,000 gal. applied / 22 ac. used

 - 10/5/16 - 142,000 gal. applied / 14 ac. used

 - 10/10/16 - 200,000 gal. applied / 20 ac. used

 - 10/13/16 - 74,000 gal. applied / 7.5 ac. used

Kaufman 4-7



Google earth

feet 2000
meters 700



- 10/17/16 - 100,000 gal. applied / 10 ac. used



- 10/18/16 - 240,000 gal. applied / 24 ac. used



- 10/19/16 - 102,000 gal. applied / 10 ac. used



- 10/24/16 - 255,000 gal. applied / 25.5 ac. used

Kaufman 4-7



Google earth

feet 2000
meters 700



- 10/28/16 - 213,000 gal. applied / 21 ac. used



- 10/31/16 - 250,000 gal. applied / 25 ac. used



MZ-1923

ANALYTICAL REPORT
ELI LILLY AND COMPANY
CLINTON LABORATORIES

WEEK #1

SAMPLE TITLE C98 T-1

ITEM CODE _____ LOT NO _____ SECTION NO. _____ TANK NO. _____ AGE _____

ASSAY FOR	RESULTS	DATE OUT	TIME OUT	ANALYST NO	METHOD
BOD-5	7330 mg/l	100116	0946	MAE	SMZ5406
TVS	0.65%	100116	1700	MAE	SMZ5406
PH	7.850	100116	0940	MAE	00819C
% Solids	1.24%	100116	1454	MAE	SMZ5406

SPECIAL INSTRUCTIONS: COD → 12370
5/250

SUBMITTED BY	<u>PC</u>
BUILDING	<u>C-19</u>
DEPARTMENT	<u>S2C</u>
PHONE	<u>4297</u>
DATE	<u>100116</u>
TIME	<u>0900</u>

CALCULATIONS:

TS ₁	27190.3	m ₁ - 26871.5	m ₁ x 100 = 1.2667
	52038.9	m ₂ - 26871.5	m ₂
TS ₂	25842.9	m ₁ - 25538.4	m ₁ x 100 = 1.2146
	50609.4	m ₂ - 25538.4	m ₂
TVS ₁	27190.3	m ₁ - 27020.2	m ₁ x 100 = 0.6759
	52038.9	m ₂ - 26871.5	m ₂
TVS ₂	25842.9	m ₁ - 25688.6	m ₁ x 100 = 0.6155
	50609.4	m ₂ - 25538.4	m ₂

ANALYTICAL REPORT
 ELI LILLY AND COMPANY
 CLINTON LABORATORIES

WEEK #2

SAMPLE TITLE C98 TK 1

ITEM CODE _____ LOT NO. _____ SECTION NO. _____ TANK NO. _____ AGE _____

ASSAY FOR	RESULTS	DATE OUT	TIME OUT	ANALYST NO.	METHOD
BOD-5	10485	100516	0550	MM	CL3015
TVS	0.69%	100916	1510	MHY	5M2546
pH	7.35	100816	0346	MM	00819C
% Solid	1.2%	100816	1810	MHY	2546

SPECIAL INSTRUCTIONS

COD 13519

SUBMITTED BY RD

BUILDING 02

DEPARTMENT 010

PHONE 4197

DATE 100816

TIME 1130

CALCULATIONS:

TS

A $\frac{27174.7 \text{ mg} - 26869.2 \text{ mg}}{51761.6 \text{ mg}} \times 100\% = 1.23$

B $\frac{25841.9 \text{ mg} - 25535.9 \text{ mg}}{50477.0 \text{ mg}} \times 100\% = 1.23$

TVS $\frac{25841.9 \text{ mg} - 25535.9 \text{ mg}}{50477.0 \text{ mg}} \times 100\% = 0.702$

BA $\frac{27174.7 \text{ mg} - 27003.9 \text{ mg}}{51761.6 \text{ mg}} \times 100\% = 0.686$

BOD - PH

#3



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Weekly #3

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Certificate of Analysis 6093528

John Batronis
Elanco Clinton
10500 South SR 63, P.O. Box 99
Clinton IN, 47842

Customer ID: EL2402
Report Printed: 10/10/2016 09:59

Project Name: Weekly Wastewater Land App	Workorder: 6093528
--	--------------------

Dear John Batronis

Enclosed are the analytical results for samples received at one of our laboratories on 09/30/2016 13:15.

McCoy & McCoy Laboratories, Inc. and Environmental Certification Labs are commercial laboratories accredited by various state and national authorities, including Indiana, Kentucky, Tennessee, and Virginia's National Environmental Laboratory Accreditation Program (NELAP). With the NELAP accreditation, applicable test results are certified to meet the requirements of the National Environmental Laboratory Accreditation Program.

If you have any questions concerning this report please contact the individual listed below.

Please visit our websites at www.mccoylabs.com or www.eclabs.org for a listing of the NELAP accreditations and Scope of Work, as well as, links to other scientific organizations.

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#460210
Madisonville

Brett Davis

Brett Davis, Project Manager

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
6093528-01	Land Application/	Wastewater	09/29/2016 14:00	09/30/2016 13:15	John M Batronis

ANALYTICAL RESULTS

Lab Sample ID: 6093528-01
Description: Land Application

Sample Collection Date Time: 09/29/2016 14:00
Sample Received Date Time: 09/30/2016 13:15

Conventional Chemistry Analyses Madisonville

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Solids	1.58		%	0.00250		2540 B-1997	10/05/2016 12:10	10/08/2016 12:36	JTL
Total Volatile Solids	50.9		%	0.010	0.010	2540 G-1997	10/06/2016 17:30	10/07/2016 10:10	JDG

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
BOD 5 Day	7270	K3, K4	mg/L	2	2	5210 B-2001	09/30/2016 14:50	10/05/2016 10:10	MRS

Notes for work order 6093528

- Samples collected by MMLI personnel are done so in accordance with procedures set forth in MMLI field services SOPs.
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra.

- K3 The seed depletion was outside the method recommended acceptance limits of 0.6 to 1.0.
- K4 The dilution water D.O. depletion was > 0.2 mg/L.
- U Target analyte was analyzed for, but was below detection limit (the value associated with the qualifier is the laboratory method detection limit in our LIMS system).

Standard Qualifiers/Acronyms

- MDL Method Detection Limit
- MRL Minimum Reporting Limit
- ND Not Detected
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- % Rec Percent Recovery
- RPD Relative Percent Difference
- > Greater than
- < Less than

Vol. Solids 8024



Conventional Chemistry Analyses Madisonville - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B641277 - Default Prep Wet Chem										
Blank (B641277-BLK1)										
Prepared: 10/5/2016 12:00, Analyzed: 10/6/2016 12:36										
Total Solids	ND	0.00025	%							
LCS (B641277-BS1)										
Prepared: 10/5/2016 12:02, Analyzed: 10/6/2016 12:36										
Total Solids	0.0100	0.00025	%	0.0100		100	80-120			
Duplicate (B641277-DUP1) Source: 6093424-02										
Prepared: 10/5/2016 12:12, Analyzed: 10/6/2016 12:36										
Total Solids	0.280	0.00025	%		0.280			0.00	10	
Batch B641557 - Default Prep Wet Chem										
Blank (B641557-BLK1)										
Prepared: 10/6/2016 17:30, Analyzed: 10/7/2016 10:10										
Total Volatile Solids	ND	0.010	%							
LCS (B641557-BS1)										
Prepared: 10/6/2016 17:30, Analyzed: 10/7/2016 10:10										
Total Volatile Solids	37.7		%	40.5		93.1	75-110			
Duplicate (B641557-DUP1) Source: 6100955-02										
Prepared: 10/6/2016 17:30, Analyzed: 10/7/2016 10:10										
Total Volatile Solids	56.6	0.010	%		56.9			0.529	10	



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Conventional Chemistry Analyses Farmersburg - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B640580 - BOD Setup 5										
Blank (B640580-BLK1)										
Prepared: 9/30/2016 14:50, Analyzed: 10/5/2016 10:10										
BOD 5 Day	ND	2	mg/L							K3, K4, U
LCS (B640580-BS1)										
Prepared: 9/30/2016 14:50, Analyzed: 10/5/2016 10:10										
BOD 5 Day	212		mg/L	198	107	84.6-115.4				K3, K4
Duplicate (B640580-DUP1) Source: 6093314-01										
Prepared: 9/30/2016 14:50, Analyzed: 10/5/2016 10:10										
BOD 5 Day	56.1	2	mg/L		56.9			1.42	10	K3, K4

Sample Acceptance Checklist for Work Order 6093528

Shipped By: MMLI

Temperature: 3.00° Celcius

Condition

Custody seals present/intact?	<input type="checkbox"/>
Were any containers received damaged?	<input type="checkbox"/>
COC submitted and complete?	<input checked="" type="checkbox"/>
COC agree with sample labels?	<input checked="" type="checkbox"/>
All containers listed on COC received?	<input checked="" type="checkbox"/>
Were all samples in appropriate containers?	<input checked="" type="checkbox"/>
Did all samples have appropriate volumes?	<input checked="" type="checkbox"/>
Were collection methods recorded on COC?	<input type="checkbox"/>
Were flow units recorded on COC?	<input type="checkbox"/>
Any headspace issues with volatile samples?	<input type="checkbox"/>
Were all holding times acceptable?	<input checked="" type="checkbox"/>
Were preserved samples within acceptable pH range?	<input type="checkbox"/>
Were preserved samples within acceptable Cl2 range?	<input type="checkbox"/>



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 3038 Lone Oak Rd. Paducah, KY 42003 270-444-6547
 11422 N US Hwy 41 Farmington, IN 47850 812-696-5076

CHAIN OF CUSTODY

Page 1 of 1

Client: JOHN BATRONIS ELANCO CLINTON LABS 10500 SOUTH SA 63 CLINTON, IN 47842 BATRONIS_JOHN_M@ELANCO.COM	Bill To: ELANCO CLINTON LABS ACCOUNTS PAYABLE P.O. Box 99 DEPT CODE C266 CLINTON, IN 47842	Customer PO#	Sample Chlorinated YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> (check one)
Project Name: WEEKLY WASTEWATER- LAND APP		Sample Collector (Signature): <i>[Signature]</i> JOHN M BATRONIS	Compliance Sample YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (check one)
		Sample receipt information is electronically recorded	Workorder No.: 0093528

No.	Date	Time	Matrix	Preservative	# of Bottles	Grab Composite	Sample Description	Analysis Requested	Sample No. NMLI Use Only
1	09/30/16	14:00			2		LAND APPLICATION WASTE WATER (C98T1)	BOD5, TOTAL SOLIDS, VOLATILE SOLIDS (SM18 2540G)	01
2	09/29/16		pH	Cl	Temp	3 C or F			
3			pH	Cl	Temp	C or F	Trip Fee		
4			pH	Cl	Temp	C or F			
5			pH	Cl	Temp	C or F			

Comments:

Relinquished By: <i>[Signature]</i>	JOHN M. BATRONIS	Date: 09/30/16	Time: 1122
Received By: <i>[Signature]</i>	Chris Sizer	Date: 09/30/16	Time: 1122
Relinquished By: <i>[Signature]</i>	Chris Sizer	Date: 09/30/16	Time: 1315
Received By: <i>[Signature]</i>	D. Smith	Date: 9-30-16	Time: 1315
Relinquished By:		Date:	Time:
Received By:		Date:	Time:

Matrix	Preservation
DW - Drinking Water	NI - Nitric Acid (HNO3)
SW - Solid Waste	HA - Hydrochloric Acid (HCL)
SO - Sol/Solid	SH - Sodium Hydroxide (NaOH)
OL - Oil	ST - Sodium Thiosulfate
SL - Sludge	ZN - Zinc Acetate
GW - Groundwater	SA - Sulfuric Acid (H2SO4)
WW - Wastewater	AA - Ascorbic Acid
SU - Surface water	4C - 4 degree Celsius
	NO - None

1. Expedited TAT not available for all testing, please call.
 2. RUSH fees may apply if samples received with <48 hr hold time remaining.
 3. MMLJ reserves the right to return unused sample.

PH Week #3

ANALYTICAL REPORT
CLINTON LABORATORIES
UTILITIES CL52C
NON-GMP FORM

Sample Title: BFS Injection (Biological Fertilizer Supplement) - "Waste Sample"

Lot No.: BFS 100816 98-1

Tank No.: 98-1

Requested method for ionophore determination: (check one)

Expected potency is NMT 600 ppm for both monensin and narasin, use
02119C Trace Monensin and/or Narasin in Water for Irrigation Using Low Curve HPLC Determination

Expected potency could be above 600 ppm for either monensin or narasin, use
02286C HPLC Determination of Monensin and/or Narasin in Water for Irrigation

ASSAY FOR	RESULTS	DATE OUT	TIME OUT	ANALYER.	METHOD
Monensin	26 ppm	100816	2339	COW/ LMB	02286C
Narasin	52 ppm				
pH	7.29	100816	2351	COW/ LMB	00819C

<p>SPECIAL INSTRUCTIONS:</p> <p>Please email results to Clinton_Landapp</p> <p>lance@wealingbros.com ryan@wealingbros.com</p>	Submitted by: <u>R. DAVIS</u>
	Signature: <u>Robert Dan</u>
	Department: <u>CL52C</u>
	Phone: <u>4297</u>
	Date: <u>100816</u>
	Time: <u>0330</u>

CALCULATIONS:
Lab use only.

BFS Injection - Waste Sample-8 status is Effective as of 2016-04-08T11:24:13

ANALYTICAL REPORT
 ELI LILLY AND COMPANY
 CLINTON LABORATORIES

Week # 4

SAMPLE TITLE C98 Tank 1

ITEM CODE _____ LOT NO. _____ SECTION NO. _____ AGE _____
 TANK NO. _____

ASSAY FOR	RESULTS	DATE OUT	TIME OUT	ANALYST NO.	METHOD
BOD-5	4.329 ml	1022	0123	m's	003015
PH	7.050	1015	1625	mhs	008190
TVS	0.599%	1015	0331	ML	3005400
% Solids	1.08%	1015	1605	mits	5025406

SPECIAL INSTRUCTIONS

COD- $11590 \times 6 = \frac{6954}{150} = 46$
 250/5

SUBMITTED BY	pc
BUILDING	C98
DEPARTMENT	52C
PHONE	4297
DATE	101516
TIME	0500

CALCULATIONS

1. $\frac{27144.0 \text{ mg}}{51772.9 \text{ mg}} \times 100\% = 26873.1 \text{ mg}$
 $\frac{27144.0 \text{ mg}}{51772.9 \text{ mg}} \times 100\% = 1.09\%$

2. $\frac{25805.8 \text{ mg}}{50545.9 \text{ mg}} \times 100\% = 25540.2 \text{ mg}$
 $\frac{25805.8 \text{ mg}}{50545.9 \text{ mg}} \times 100\% = 1.06\%$

1. $\frac{27144.0 \text{ mg}}{51772.9 \text{ mg}} \times 100\% = 26873.1 \text{ mg}$
 50545.9 mg ^{correct now} 10-16 mits

2. $\frac{25805.8 \text{ mg}}{50545.9 \text{ mg}} \times 100\% = 25540.2 \text{ mg}$
 $\frac{25805.8 \text{ mg}}{50545.9 \text{ mg}} \times 100\% = 0.579$



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Monthly #1

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Certificate of Analysis
6092108

John Batronis
Elanco Clinton
10500 South SR 63, P.O. Box 99
Clinton IN, 47842

Customer ID: EL2402
Report Printed: 09/28/2016 10:32

Project Name: Weekly Wastewater Land App	Workorder: 6092108
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Dear John Batronis

Enclosed are the analytical results for samples received at one of our laboratories on 09/21/2016 13:30.

McCoy & McCoy Laboratories, Inc. and Environmental Certification Labs are commercial laboratories accredited by various state and national authorities, including Indiana, Kentucky, Tennessee, and Virginia's National Environmental Laboratory Accreditation Program (NELAP). With the NELAP accreditation, applicable test results are certified to meet the requirements of the National Environmental Laboratory Accreditation Program.

If you have any questions concerning this report please contact the individual listed below.

Please visit our websites at www.mccoyslabs.com or www.eclabs.org for a listing of the NELAP accreditations and Scope of Work, as well as, links to other scientific organizations.

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#460210
Madisonville

Brett Davis

Brett Davis, Project Manager

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
6092108-01	Liquid Filter Press/	Wastewater	09/21/2016 08:00	09/21/2016 13:30	Ryan C Tyree

ANALYTICAL RESULTS

Lab Sample ID: 6092108-01
Description: Liquid Filter Press

Sample Collection Date Time: 09/21/2016 08:00
Sample Received Date Time: 09/21/2016 13:30

Metals by EPA 200 Series Methods

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Phosphorus	486	D1	mg/L	0.500	0.500	EPA 200.7 REV 4.4	09/27/2016 11:35	09/27/2016 16:52	TSR
Potassium	978	D1	mg/L	25.0	11.0	EPA 200.7 REV 4.4	09/27/2016 11:35	09/27/2016 16:52	TSR

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Ammonia as N	284	D1	mg/L	10.0	1.84	4500-NH3 D-1997	09/23/2016 12:40	09/23/2016 15:13	BJM
Nitrate as N	3.15		mg/L	0.250	0.090	EPA 300.0 REV 2.1	09/22/2016 16:33	09/22/2016 16:33	KJL
Total Kjeldahl Nitrogen	385	D1, Y1, E	mg/L	0.6	0.1	4500-NH3 C-1997	09/28/2016 10:31	09/27/2016 12:01	KMM



Notes for work order 6092108

- Samples collected by MMLI personnel are done so in accordance with procedures set forth in MMLI field services SOPs.
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra.

- D1 Sample required dilution due to high concentration of target analyte.
- E Concentration exceeds calibration range
- M1 Matrix spike recovery was high; the method control sample recovery was acceptable.
- M2 Matrix spike recovery was low; the method control sample recovery was acceptable.
- U Target analyte was analyzed for, but was below detection limit (the value associated with the qualifier is the laboratory method detection limit in our LIMS system).
- Y1 Sample RPD exceeded the method control limit.

Standard Qualifiers/Acronyms

- MDL Method Detection Limit
- MRL Minimum Reporting Limit
- ND Not Detected
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %rec Percent Recovery
- RPD Relative Percent Difference
- > Greater than
- < Less than



Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		
Batch B640164 - EPA 3010A											
Blank (B640164-BLK1)											
Prepared: 9/27/2016 11:35, Analyzed: 9/27/2016 16:42											
Phosphorus	ND	0.010	mg/L								U
Potassium	ND	0.50	mg/L								U
LCS (B640164-BS1)											
Prepared: 9/27/2016 11:35, Analyzed: 9/27/2016 16:47											
Phosphorus	0.258	0.010	mg/L	0.250		103	85-115				
Potassium	6.17	0.50	mg/L	6.25		98.7	85-115				
Matrix Spike (B640164-MS1) Source: 6092765-01											
Prepared: 9/27/2016 11:35, Analyzed: 9/27/2016 17:07											
Phosphorus	19.9	0.010	mg/L	0.250	19.5	132	70-130				M1
Potassium	8.60	0.50	mg/L	6.25	2.32	100	70-130				
Matrix Spike Dup (B640164-MSD1) Source: 6092765-01											
Prepared: 9/27/2016 11:35, Analyzed: 9/27/2016 17:12											
Phosphorus	20.0	0.010	mg/L	0.250	19.5	192	70-130	0.752	20		M1
Potassium	8.58	0.50	mg/L	6.25	2.32	100	70-130	0.151	20		



Conventional Chemistry Analyses Farmersburg - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B639464 - Default Prep IC										
Blank (B639464-BLK1)										
Prepared: 9/22/2016 15:26, Analyzed: 9/22/2016 15:26										
Nitrate as N	ND	0.250	mg/L							U
LCS (B639464-BS1)										
Prepared: 9/22/2016 15:03, Analyzed: 9/22/2016 15:03										
Nitrate as N	1.93		mg/L	2.00		98.6	90-110			
Batch B639600 - Default Prep Wet Chem 5										
Blank (B639600-BLK1)										
Prepared: 9/23/2016 12:40, Analyzed: 9/23/2016 14:57										
Ammonia as N	ND	0.250	mg/L							U
LCS (B639600-BS1)										
Prepared: 9/23/2016 12:40, Analyzed: 9/23/2016 14:59										
Ammonia as N	10.5		mg/L	10.0		105	80-120			
LCS (B639600-BS2)										
Prepared: 9/23/2016 12:40, Analyzed: 9/23/2016 15:25										
Ammonia as N	11.1		mg/L	10.0		111	80-120			
Duplicate (B639600-DUP1) Source: 6092831-02										
Prepared: 9/23/2016 12:40, Analyzed: 9/23/2016 15:03										
Ammonia as N	1.99	0.255	mg/L		1.92			3.88	10	
Matrix Spike (B639600-MS1) Source: 6092916-05										
Prepared: 9/23/2016 12:40, Analyzed: 9/23/2016 15:01										
Ammonia as N	9.70	0.260	mg/L	10.2	ND	95.1	80-120			
Batch B640122 - Default Prep Wet Chem 5										
Blank (B640122-BLK1)										
Prepared: 9/26/2016 10:31, Analyzed: 9/27/2016 10:37										
Total Kjeldahl Nitrogen	ND	0.6	mg/L							U



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Conventional Chemistry Analyses Farmersburg - Quality Control

Analyte	Result	Reporting		Spike Level	Source		%REC Limits	RPD	RPD Limit	Notes
		Limit	Units		Result	%REC				
Batch B640122 - Default Prep Wet Chem 5										
LCS (B640122-BS1)										
Prepared: 9/26/2016 10:31, Analyzed: 9/27/2016 10:44										
Total Kjeldahl Nitrogen	48.2	0.6	mg/L	50.0		96.3	80-120			
Duplicate (B640122-DUP1) Source: 6092108-01										
Prepared: 9/26/2016 10:31, Analyzed: 9/27/2016 10:58										
Total Kjeldahl Nitrogen	273	0.6	mg/L		385			34.0	10	D1, Y1, E
Matrix Spike (B640122-MS1) Source: 6091814-01										
Prepared: 9/26/2016 10:31, Analyzed: 9/27/2016 10:51										
Total Kjeldahl Nitrogen	131	0.6	mg/L	50.0	95.3	72.4	80-120			M2

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 REV 4.4 In Water	
Potassium	VA NELAC Mdv (460210) KY Wastewater Mdv (00030)
EPA 300.0 REV 2.1 In Water	
Nitrate as N	IN Drinking Water Fmb (C-77-01)

Sample Acceptance Checklist for Work Order 6092108

Shipped By: MMLI

Temperature: 4.00° Celcius

Condition

Custody seals present/intact?	<input type="checkbox"/>
Were any containers received damaged?	<input type="checkbox"/>
COC submitted and complete?	<input checked="" type="checkbox"/>
COC agree with sample labels?	<input checked="" type="checkbox"/>
All containers listed on COC received?	<input checked="" type="checkbox"/>
Were all samples in appropriate containers?	<input checked="" type="checkbox"/>
Did all samples have appropriate volumes?	<input checked="" type="checkbox"/>
Were collection methods recorded on COC?	<input checked="" type="checkbox"/>
Were flow units recorded on COC?	<input type="checkbox"/>
Any headspace issues with volatile samples?	<input type="checkbox"/>
Were all holding times acceptable?	<input checked="" type="checkbox"/>
Were preserved samples within acceptable pH range?	<input type="checkbox"/>
Were preserved samples within acceptable Cl2 range	<input checked="" type="checkbox"/>

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Chain of Custody

Scheduled for: **09/21/2016**



Client: Elanco Clinton

Report To:
Elanco Clinton

Invoice To:
Elanco Clinton

Project: Weekly Wastewater Land App

John Batrons
10500 South SR 63, P.O. Box 99
Clinton, IN 47842

Accounts Payable
PO Box 99 Drop Code C26G
Clinton, IN 47842

Phone: 765-832-4163

PO#: _____

PWS ID#: _____

Quote# _____

Please Print Legibly

Collected by (Signature): Supa C Tyler

Compliance Monitoring? Yes ___ No ___

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Samples Chlorinated? Yes ___ No ___

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

MMLI USE ONLY *required information*

Workorder # Sample ID#	Date (mm/dd/yy)	Collection Time (24 hr):	Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
6092108-01 A	09/21/16	0800	Plastic 500mL pH<2 w/H2SO4 Outer Office Preservation Check: pH: <input checked="" type="checkbox"/>	1	Liquid Filter Press	(g) / c	Ammonia Fmb TKN Fmb
6092108-01 B	↓	↓	Plastic 1L Outer Office	1	Liquid Filter Press	(g) / c	Nitrate 300.0 Fmb
6092108-01 C	↓	↓	Plastic 500mL pH<2 w/HNO3 Preservation Check: pH: <input checked="" type="checkbox"/>	1	Liquid Filter Press	(g) / c	Phosphorus Tot 200.7 Potassium Tot 200.7
6092108-01 D	↓	↓	*** DEFAULT CONTAINER ***	1	Liquid Filter Press	g / c	Trip 25 Fmb

Preservation Check Performed by: Brian Padgett

Field data collected by: _____	Date (mm/dd/yy) _____	Time (24 hr) _____
pH _____	Cond (umho) _____	Res Cl (mg/L) _____
Temp (oC) _____	or (oF) _____	Static Water Level _____
Flow (MGD) _____	or (CFS) _____	or (g/min) _____
		Tot Cl (mg/L) _____
		DO (mg/L) _____
		Free Cl (mg/L) _____
		Turb. (NTU) _____

Relinquished by: (Signature)

Received by: (Signature)

Date (mm/dd/yy)

Time (24 hr)

Supa C Tyler
Brian Padgett

Brian Padgett
D. Smith

09-21-16
09-21-16

11:35
13:30

4C



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Louisville, KY 502.961.0001	Paducah, KY 270.444.6547	

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Certificate of Analysis 6101478

John Batronis
Elanco Clinton
10500 South SR 63, P.O. Box 99
Clinton IN, 47842

Customer ID: EL2402
Report Printed: 10/21/2016 15:34

Project Name: Weekly Wastewater Land App

Workorder: 6101478

Dear John Batronis

Enclosed are the analytical results for samples received at one of our laboratories on 10/12/2016 13:40.

McCoy & McCoy Laboratories, Inc. and Environmental Certification Labs are commercial laboratories accredited by various state and national authorities, including Indiana, Kentucky, Tennessee, and Virginia's National Environmental Laboratory Accreditation Program (NELAP). With the NELAP accreditation, applicable test results are certified to meet the requirements of the National Environmental Laboratory Accreditation Program.

If you have any questions concerning this report please contact the individual listed below.

Please visit our websites at www.mccoyslabs.com or www.eclabs.org for a listing of the NELAP accreditations and Scope of Work, as well as, links to other scientific organizations.

This certificate of analysis may not be reproduced without the written consent of McCoy & McCoy



#460210
Madisonville

Brett Davis

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Brett Davis, Project Manager



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SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
6101478-01	Liquid Filter Press/	Wastewater	10/12/2016 10:00	10/12/2016 13:40	Ryan C Tyree

ANALYTICAL RESULTS

Lab Sample ID: **6101478-01**
Description: **Liquid Filter Press**

Sample Collection Date Time: 10/12/2016 10:00
Sample Received Date Time: 10/12/2016 13:40

Metals by EPA 200 Series Methods

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Phosphorus	1960	B1, D1, B	mg/L	5.00	5.00	EPA 200.7 REV 4.4	10/17/2016 09:40	10/19/2016 16:07	TSR
Potassium	1330		mg/L	2.50	1.10	EPA 200.7 REV 4.4	10/17/2016 09:40	10/18/2016 21:25	TSR

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Ammonia as N	136	D1	mg/L	10.0	1.84	4500-NH3 D-1997	10/14/2016 15:10	10/14/2016 15:41	BJM
Nitrate as N	0.553		mg/L	0.250	0.090	EPA 300.0 REV 2.1	10/13/2016 10:16	10/13/2016 10:16	KMM
Total Kjeldahl Nitrogen	216	D1, Y1, E	mg/L	0.6	0.1	4500-NH3 C-1997	10/17/2016 11:54	10/18/2016 10:44	KMM



Notes for work order 6101478

- Samples collected by MMLI personnel are done so in accordance with procedures set forth in MMLI field services SOPs.
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra.

- B Target analyte detected in method blank at or above the method reporting limit.
- B1 Target analyte detected in method blank at or above the method reporting limit . Concentration found in the sample was 10 times above the concentration found in the method blank.
- D1 Sample required dilution due to high concentration of target analyte.
- E Concentration exceeds calibration range
- M2 Matrix spike recovery was low; the method control sample recovery was acceptable.
- U Target analyte was analyzed for, but was below detection limit (the value associated with the qualifier is the laboratory method detection limit in our LIMS system).
- Y1 Sample RPD exceeded the method control limit.

Standard Qualifiers/Acronyms

- MDL Method Detection Limit
- MRL Minimum Reporting Limit
- ND Not Detected
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- % Rec Percent Recovery
- RPD Relative Percent Difference
- > Greater than
- < Less than



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Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B642630 - EPA 3010A										
Blank (B642630-BLK1)										
Prepared: 10/17/2016 9:40, Analyzed: 10/18/2016 20:30										
Potassium	ND	0.50	mg/L							U
Blank (B642630-BLK2)										
Prepared: 10/17/2016 9:40, Analyzed: 10/19/2016 15:47										
Phosphorus	0.013	0.010	mg/L							B
LCS (B642630-BS1)										
Prepared: 10/17/2016 9:40, Analyzed: 10/18/2016 20:35										
Potassium	6.82	0.50	mg/L	6.25		109	85-115			
LCS (B642630-BS2)										
Prepared: 10/17/2016 9:40, Analyzed: 10/19/2016 15:52										
Phosphorus	0.247	0.010	mg/L	0.250		98.7	85-115			B
Matrix Spike (B642630-MS1) Source: 6100219-01										
Prepared: 10/17/2016 9:40, Analyzed: 10/18/2016 20:45										
Phosphorus	0.386	0.010	mg/L	0.250	0.118	107	70-130			B
Potassium	8.79	0.50	mg/L	6.25	2.19	106	70-130			
Matrix Spike (B642630-MS2) Source: 6100839-01										
Prepared: 10/17/2016 9:40, Analyzed: 10/18/2016 21:10										
Phosphorus	0.332	0.010	mg/L	0.250	0.094	95.2	70-130			B
Potassium	10.7	0.50	mg/L	6.25	4.02	107	70-130			
Matrix Spike Dup (B642630-MSD1) Source: 6100219-01										
Prepared: 10/17/2016 9:40, Analyzed: 10/18/2016 20:50										
Phosphorus	0.380	0.010	mg/L	0.250	0.118	104	70-130	1.62	20	B
Potassium	8.87	0.50	mg/L	6.25	2.19	107	70-130	0.827	20	
Matrix Spike Dup (B642630-MSD2) Source: 6100839-01										
Prepared: 10/17/2016 9:40, Analyzed: 10/18/2016 21:15										
Phosphorus	0.333	0.010	mg/L	0.250	0.094	95.6	70-130	0.241	20	B
Potassium	10.6	0.50	mg/L	6.25	4.02	106	70-130	1.12	20	



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Conventional Chemistry Analyses Farmersburg - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B642563 - Default Prep Wet Chem 5										
Blank (B642563-BLK1)										
Prepared: 10/14/2016 15:10, Analyzed: 10/14/2016 15:15										
Ammonia as N	ND	0.250	mg/L							U
LCS (B642563-BS1)										
Prepared: 10/14/2016 15:10, Analyzed: 10/14/2016 15:17										
Ammonia as N	9.88		mg/L	10.0		98.8	80-120			
LCS (B642563-BS2)										
Prepared: 10/14/2016 15:10, Analyzed: 10/17/2016 8:24										
Ammonia as N	8.24		mg/L	10.0		82.4	80-120			
Duplicate (B642563-DUP1) Source: 6102081-01										
Prepared: 10/14/2016 15:10, Analyzed: 10/14/2016 15:21										
Ammonia as N	1.59	0.255	mg/L		1.65			3.59	10	
Matrix Spike (B642563-MS1) Source: 6101111-02										
Prepared: 10/14/2016 15:10, Analyzed: 10/14/2016 15:19										
Ammonia as N	7.58	0.260	mg/L	10.2	0.050	73.8	80-120			M2
Batch B643013 - Default Prep IC Fmb										
Blank (B643013-BLK1)										
Prepared: 10/13/2016 9:44, Analyzed: 10/13/2016 9:44										
Nitrate as N	ND	0.250	mg/L							U
LCS (B643013-BS1)										
Prepared: 10/13/2016 9:28, Analyzed: 10/13/2016 9:28										
Nitrate as N	9.92		mg/L	10.0		99.2	90-110			
Matrix Spike (B643013-MS1) Source: 6102353-01										
Prepared: 10/13/2016 10:47, Analyzed: 10/13/2016 10:47										
Nitrate as N	6.66	0.250	mg/L	3.00	3.58	103	80-120			
Matrix Spike Dup (B643013-MSD1) Source: 6102353-01										
Prepared: 10/13/2016 11:03, Analyzed: 10/13/2016 11:03										
Nitrate as N	6.33	0.250	mg/L	3.00	3.58	91.8	80-120	5.14	20	



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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B643140 - Default Prep Wet Chem 5										
Blank (B643140-BLK1)										
Prepared: 10/17/2016 11:54, Analyzed: 10/18/2016 10:02										
Total Kjeldahl Nitrogen	ND	0.6	mg/L							U
LCS (B643140-BS1)										
Prepared: 10/17/2016 11:54, Analyzed: 10/18/2016 10:09										
Total Kjeldahl Nitrogen	53.1	0.6	mg/L	50.0		106	80-120			
Duplicate (B643140-DUP1) Source: 6101478-01										
Prepared: 10/17/2016 11:54, Analyzed: 10/18/2016 10:23										
Total Kjeldahl Nitrogen	173	0.6	mg/L		215			21.6	10	D1, Y1
Matrix Spike (B643140-MS1) Source: 6101960-01										
Prepared: 10/17/2016 11:54, Analyzed: 10/18/2016 10:16										
Total Kjeldahl Nitrogen	42.3	0.6	mg/L	50.0	4.0	78.6	80-120			M2

Certified Analyses included in this Report

Analyte	Certifications
200.7 REV 4.4 in Water Cassium	VA NELAC Mdv (460210) KY Wastewater Mdv (00030)
EPA 300.0 REV 2.1 in Water Nitrate as N	IN Drinking Water Frmb (C-77-01)

Sample Acceptance Checklist for Work Order 6101478

Shipped By: MMLI

Temperature: 3.00° Celcius

Condition

Custody seals present/intact?	<input type="checkbox"/>
Were any containers received damaged?	<input type="checkbox"/>
COC submitted and complete?	<input checked="" type="checkbox"/>
COC agree with sample labels?	<input checked="" type="checkbox"/>
All containers listed on COC received?	<input checked="" type="checkbox"/>
Were all samples in appropriate containers?	<input checked="" type="checkbox"/>
Did all samples have appropriate volumes?	<input checked="" type="checkbox"/>
Were collection methods recorded on COC?	<input checked="" type="checkbox"/>
Were flow units recorded on COC?	<input type="checkbox"/>
Any headspace issues with volatile samples?	<input type="checkbox"/>
Were all holding times acceptable?	<input checked="" type="checkbox"/>
Were preserved samples within acceptable pH range?	<input type="checkbox"/>
Were preserved samples within acceptable Cl2 range	<input checked="" type="checkbox"/>

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Chain of Custody



Scheduled for: **10/12/2016**

Client: Elanco Clinton

Report To:
Elanco Clinton

Invoice To:
Elanco Clinton

Project: Weekly Wastewater Land App

John Batronis
10500 South SR 63, P.O. Box 99
Clinton, IN 47842

Accounts Payable
PO Box 99 Drop Code C26G
Clinton, IN 47842

Phone: 765-832-4163

PO#: _____

PWS ID#: _____

Quote# _____

State: _____

Please Print Legibly

Collected by (Signature): *Pipe C. Turner*
required information

Compliance Monitoring? Yes ___ No ___

Samples Chlorinated? Yes ___ No ___

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

MMLI USE ONLY	*required information*		Bottle and Preservative	Containers	Sample Description	Composite	Sample Analysis Requested
Workorder #	Date	Collection					
6101478	(mm/dd/yy):	Time (24 hr):					
Sample ID#							
6101478-01 A	10/12/16	1000	Plastic 500mL pH<2 w/H2SO4 Outer Office Preservation Check: pH: <input checked="" type="checkbox"/>	1	Liquid Filter Press	g/c	Ammonia Fmb TKN Fmb
6101478-01 B	<i>[Signature]</i>	<i>[Signature]</i>	Plastic 1L Outer Office	1	Liquid Filter Press	g/c	Nitrate 300.0 Fmb
6101478-01 C	<i>[Signature]</i>	<i>[Signature]</i>	Plastic 500mL pH<2 w/HNO3 Preservation Check: pH: <input checked="" type="checkbox"/>	1	Liquid Filter Press	g/c	Phosphorus Tot 200.7 Potassium Tot 200.7
6101478-01 D			*** DEFAULT CONTAINER ***	1	Liquid Filter Press	g/c	Trip 25 Fmb

Preservation Check Performed by: *Brian Padgett*

Field data collected by: _____	Date (mm/dd/yy) _____	Time (24 hr) _____
pH _____	Cond (umho) _____	Res Cl (mg/L) _____
Temp (oC) _____	or (oF) _____	Static Water Level _____
Flow (MGD) _____	or (CFS) _____	or (g/min) _____
		DO (mg/L) _____
		Turb. (NTU) _____
		Free Cl (mg/L) _____

Relinquished by: (Signature)	Received by: (Signature)	Date (mm/dd/yy)	Time (24 hr)
<u><i>Pipe C. Turner</i></u>	<u><i>Brian Padgett</i></u>	10-12-16	11:15
<u><i>Brian Padgett</i></u>	<u><i>Randy Webb</i></u>	10-12-16	13:40