

1975 . 100 N., Suite C Angola, N 46703 Phone: 260 624 2401 e site: www.sandhillenviro.com

July 1, 2019

Steuben County Lakes Council Pete Hippensteel 207 S Wyne St. Angola, IN 46703

RE: Water Testing

Dear Pete:

Sandhill Environmental Services, LLC received 16 samples for the analyses presented in the following report.

In accordance with your instructions, Sandhill conducted the analysis shown on the following pages on the samples submitted. Unless otherwise noted, all analysis was conducted using approved methodologies from the EPA, Standard Methods, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. Any reports containing subcontracted testing will be at the end of this report.

Certifications/Accreditation: IN# C-76-01 IN# M-76-09

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Natalie McGill

Laboratory Director

Matalei McGill

1975 W. 100 N., Suite C

Angola, IN 46703





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Key: DL

Detection Limit Permit Limit

SUB (as analyst)

work sub-contracted by

Sandhill

Sample ID: 1 SR 427 FC

Collection Date: 06/27/2019, 10:10

Collected By: Pete Hippensteel

Lab ID #: 32997

Attn: Pete Hippensteel

 Analyses
 Result
 Units
 DL
 PL
 Date/Time

 E. coli
 SM9223B
 Analyst: K. Kershner

 > 2,419.6
 MPN/100 mL
 1.0
 06/27/2019, 15:38

 Total Phosphorus
 Hach 10210, E365.1 & E365.3 Equivalent
 Analyst: N. McGill

 0.206
 mg/L
 0.022
 06/27/2019, 17:15

Sample # 32997 was first analyzed on 06/27/2019 at 15:38 using a sample volume of 100 mL. The sample exceeded the maximum plate count with the volume used. The result was >2, 419.6 MPN/100 mL.

The sample was analyzed again using a sample volume of 22 mL on 06/28/2019 at 14:50. This analysis gave the result of 7,876.8 MPN/100 mL. This second analysis was performed out of hold time and therefore the result is suspect. The first analysis was reported.





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Key:
DL I
PL I

SUB (as analyst)

Detection Limit Permit Limit work sub-contracted by

Sandhill

Sample ID: 2850 S FC

Attn: Pete Hippensteel

Collection Date: 06/27/2019, 10:25

Lab ID #: 32998

Analyses	Result	Units	DL PL	Date/Time
E. coli			SM9223B	Analyst: K. Kershner
	1,226.2	MPN/100 mL	2.0	06/27/2019, 15:38
Total Phosph	orus	Hach 1021	10, E365.1 & E365.3 Equivalent	Analyst: N. McGill
	0.223	mg/L	0.022	06/27/2019, 17:15



Attn: Pete Hippensteel



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Key:DLDetection LimitPLPermit Limit

SUB (as analyst) work sub-contracted by

Sandhill

Sample ID: 3 450 S Collection Date: 06/27/2019, 10:30

Lab ID #: 32999 Collected By: Pete Hippensteel

Analyses	Result	Units	DL PL	Date/Time
E. coli			SM9223B	Analyst: K. Kershner
	476.4	MPN/100 mL	2.0	06/27/2019, 15:38
Total Phosph	orus	Hach 1021	0, E365.1 & E365.3 Equivalent	Analyst: N. McGill
	0.201	mg/L	0.022	06/27/2019, 17:15



ANALYTICAL REPORT

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Client: Steuben County Lakes Council

Attn: Pete Hippensteel

Key:

DL Detection Limit
PL Permit Limit

SUB (as analyst) work sub-contracted by

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Sample ID: 4 400 S FC Collection Date: 06/27/2019, 10:40

Lab ID #: 33000 Collected By: Pete Hippensteel

Analyses	Result	Units	DL PL	Date/Time
E. coli			SM9223B	Analyst: K. Kershner
	651.0	MPN/100 mL	2.0	06/27/2019, 15:38
Total Phosph	orus	Hach 1021	0, E365.1 & E365.3 Equivalent	Analyst: N. McGill
r	0.166	mg/L	0.022	06/27/2019, 17:15





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Key: DL

Detection Limit Permit Limit

SUB (as analyst)

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Sandhill

Sample ID: 5 300 S FC

Attn: Pete Hippensteel

Collection Date: 06/27/2019, 11:00

Lab ID #: 33001

Analyses	Result	Units	DL PL	Date/Time
E. coli			SM9223B	Analyst: K. Kershner
	774.6	MPN/100 mL	2.0	06/27/2019, 15:50
T (I D)		н 1 1001	0 F2(51 0 F2(52 F 1 1 1 1	A L AN M CO
Total Phosph	orus	Hach 1021	0, E365.1 & E365.3 Equivalent	Analyst: N. McGill
	0.158	mg/L	0.022	06/27/2019, 17:15





Client: Steuben County Lakes Council

Attn: Pete Hippensteel

Key:

DL Detection Limit PL Permit Limit

SUB (as analyst) w

work sub-contracted by

Sandhill

Sample ID: 6 200 S Collection Date: 06/27/2019, 11:05

Lab ID #: 33002 Collected By: Pete Hippensteel

Analyses	Result	Units	DL PL	Date/Time
E. coli			SM9223B	Analyst: K. Kershner
	689.6	MPN/100 mL	2.0	06/27/2019, 15:50
Total Phosph	orus	Hach 1021	0, E365.1 & E365.3 Equivalent	Analyst: N. McGill
	0.145	mg/L	0.022	06/27/2019, 17:15





Client: Steuben County Lakes Council

Attn: Pete Hippensteel

Key:

DL Detection Limit
PL Permit Limit

work sub-contracted by

Sandhill

Sample ID: 7500 BC

Collection Date: 06/27/2019, 11:10

SUB (as analyst)

Lab ID #: 33003

Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	> 8,065.3	MPN/100 mL	3.3		06/27/2019, 15:50
Total Phospho	orus	Hach 1021	0, E365.1 & E365.	3 Equivalent	Analyst: N. McGill
	0.273	mg/L	0.022		06/27/2019, 17:15

Sample # 33003 was first analyzed on 06/27/2019 at 15:50 using a sample volume of 30mL. The sample exceeded the maximum plate count. The result was >8,065.3 MPN/100 mL.

The sample was analyzed again using 10mL of sample on 06/28/2019 at 14:50. This analysis gave the result of > 24,196.0 MPN/100 mL. This second analysis was performed out of hold time and therefore the result is suspect. The first analysis was reported.





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Sample ID: 8 600 BC

Attn: Pete Hippensteel

Collection Date: 06/27/2019, 11:15

Lab ID #: 33004

Collected By: Pete Hippensteel

Analyses	Result	Units	DL PL	Date/Time
E. coli			SM9223B	Analyst: K. Kershner
	> 8,065.3	MPN/100 mL	3.3	06/27/2019, 15:50
Total Phosph	orus	Hach 1021	0, E365.1 & E365.3 Equivalent	Analyst: N. McGill
	0.307	mg/L	0.022	06/27/2019, 17:15

Sample # 33004 was first analyzed on 06/27/2019 at 15:50 using a sample volume of 30mL. The sample exceeded the maximum plate count. The result was >8,065.3 MPN/100 mL.

The sample was analyzed again using a sample volume of 10mL on 06/28/2019 at 14:50. This analysis gave the result of > 24,196.0 MPN/100 mL. This second analysis was performed out of hold time and therefore the result is suspect. The first analysis was reported.





Client: Steuben County Lakes Council

Attn: Pete Hippensteel

Key:

DL Detection Limit

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Permit Limit
work sub-contracted by

Sandhill

Sample ID: 9 600 BC Collection Date: 06/27/2019, 11:20

Lab ID #: 33005 Collected By: Pete Hippensteel

Analyses	Result	Units	DL PL	Date/Time
E. coli			SM9223B	Analyst: K. Kershner
	950.3	MPN/100 mL	3.3	06/27/2019, 15:50
T I D		W 1 4004		
Total Phosph	orus	Hach 1021	0, E365.1 & E365.3 Equivalent	Analyst: N. McGill
	0.221	mg/L	0.022	06/27/2019, 17:15





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00111000, 220

Key: DL

Detection Limit Permit Limit

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Sandhill

Sample ID: 10 600 BC

Attn: Pete Hippensteel

Collection Date: 06/27/2019, 11:25

Lab ID #: 33006

Analyses	Result	Units	DL PL	Date/Time
E. coli			SM9223B	Analyst: K. Kershner
	2.423.3	MPN/100 mL	3.3	06/27/2019, 15:50
Total Phosph	orus	Hach 1021	0, E365.1 & E365.3 Equivalent	Analyst: N. McGill
	0.183	mg/L	0.022	06/27/2019, 17:15



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Key:

DL Detection Limit
PL Permit Limit

SUB (as analyst) wo

work sub-contracted by

Sandhill

Sample ID: 11 450 S BC

Collection Date: 06/27/2019, 11:35

Lab ID #: 33007

Analyses	Result	Units	DL PL	Date/Time
E. coli			SM9223B	Analyst: K. Kershner
	1.638.5	MPN/100 mL	2.1	06/27/2019, 15:50
Total Phosph	orus	Hach 1021	0, E365.1 & E365.3 Equivalent	Analyst: N. McGill
	0.252	mg/L	0.022	06/27/2019, 17:15





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Key: DL

Detection Limit Permit Limit

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Sample ID: 12 550 E BC

Attn: Pete Hippensteel

Collection Date: 06/27/2019, 12:30

Lab ID #: 33008

Analyses	Result	Units	DL PL	Date/Time
E. coli			SM9223B	Analyst: K. Kershner
	1,732.8	MPN/100 mL	2.0	06/27/2019, 15:50
Total Phosph	orus	Hach 1021	0, E365.1 & E365.3 Equivalent	Analyst: N. McGill
	0.317	mg/L	0.022	06/27/2019, 17:15





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Sample ID: 13 BC SR 1

Attn: Pete Hippensteel

Collection Date:06/27/2019, 12:50

Lab ID #: 33009

Analyses	Result	Units	DL PL	Date/Time
E. coli			SM9223B	Analyst: K. Kershner
	727.0	MPN/100 mL	1.0	06/27/2019, 15:50
Total Phosph	orus	Hach 1021	0, E365.1 & E365.3 Equivalent	Analyst: N. McGill
	0.189	mg/L	0.022	06/27/2019, 17:15



ANALYTICAL REPORT

Client: Steuben County Lakes Council

Attn: Pete Hippensteel

Key:

DL Detection Limit
PL Permit Limit

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Sample ID: 14 Carp Collection Date: 06/27/2019, 13:35

Lab ID #: 33010 Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	153.9	MPN/100 mL	1.0		06/27/2019, 15:50



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Sandhill

Sample ID: 15 Beach

Collection Date:06/27/2019, 13:38

Lab ID #: 33011

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	18.9	MPN/100 mL	1.0		06/27/2019, 15:50



ANALYTICAL REPORT

Client: Steuben County Lakes Council

Attn: Pete Hippensteel

Key:

DL Detection Limit
PL Permit Limit

SUB (as analyst) work sub-contracted by

Sandhill

Sample ID: 16 Palf Collection Date: 06/27/2019, 13:40

Lab ID #: 33012 Collected By: Pete Hippensteel

Analyses	Result	Units	DL	PL	Date/Time
E. coli			SM9223B		Analyst: K. Kershner
	79.8	MPN/100 mL	1.0		06/27/2019, 15:50



Sandhill Environmental Services, LLC. 1975 West 100 North, Ste. C Angola, IN 46703 260-624-2401

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Sandhill Environmental Services, LLC. 1975 West 100 North, Ste. C Angola, IN 46703 260-624-2401

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Sandhill Environmental Services, LLC. 1975 West 100 North, Ste. C Angola, IN 46703 260-624-2401

		Client Ir	nformation		*******			Billing	Inform	ation (if differe	PO Number:					
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Relinquished By	pol	**	thorsh 6/21/19,1350 5							Or Nitric Acid Cooled to 4°C S = H ₂ SO ₄ / OH = NaOH / Sulfuric Acid Sodium Hydroxid H = HCl / Hydrochloric SO = Na ₂ S ₂ O ₃ /			U = Unpreserved, Cooled to 4°C OH = NaOH / Sodium Hydroxide				



Sandhill Environmental Services, LLC. 1975 West 100 North, Ste. C Angola, IN 46703 260-624-2401

		Client In			Billing	Inforn	ation (if	different	PO Number:									
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City, State, Zip:														Labo		Number(s):	- 2 - 1 -	
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