PHOENIX
Environmental Laboratories, Inc.

Thursday, November 05, 2020

Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Project ID: SLUDGE COLIFORMS Q4
SDG ID: GCG96886
Sample ID#s: CG96886 - CG96892

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

November 05, 2020

SDG I.D.: GCG96886

Version 2: CG96889 was reported as >20000 CFU/g for Total Coliform. At the clients request, it was reanalyzed at larger dilutions and the new result is reported below.

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Sample Id Cross Reference

November 05, 2020

SDG I.D.: GCG96886

Project ID: SLUDGE COLIFORMS Q4

Client Id	Lab Id	Matrix
SLUDGE GRAB	CG96886	SLUDGE
SLUDGE GRAB	CG96887	SLUDGE
SLUDGE GRAB	CG96888	SLUDGE
SLUDGE GRAB	CG96889	SLUDGE
SLUDGE GRAB	CG96890	SLUDGE
SLUDGE GRAB	CG96891	SLUDGE
SLUDGE GRAB	CG96892	SLUDGE

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Analysis Report

November 05, 2020

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information		Custody Information		Date	Time
Matrix:	SLUDGE	Collected by:	KG	10/14/20	11:30
Location Code:	BARNHARD	Received by:	B	10/14/20	16:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G11301				

Laboratory Data

SDG ID: GCG96886
Phoenix ID: CG96886

Project ID: SLUDGE COLIFORMS Q4
Client ID: SLUDGE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	52	10	MPN/g	10	10/14/20 17:20	C/KDB	SM9223B-04
Fecal Coliforms	120	20	cfu/g	20	10/14/20 17:20	RM/RM	SM9222D-06
Total Coliform	9800	100	cfu/g	100	10/14/20 17:20	RM/RM	SM9222B-06

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
November 05, 2020
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

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Analysis Report

November 05, 2020

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information		Custody Information		Date	Time
Matrix:	SLUDGE	Collected by:	KG	10/14/20	11:35
Location Code:	BARNHARD	Received by:	B	10/14/20	16:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G11301				

Laboratory Data

SDG ID: GCG96886
Phoenix ID: CG96887

Project ID: SLUDGE COLIFORMS Q4
Client ID: SLUDGE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	52	10	MPN/g	10	10/14/20 17:20	C/KDB	SM9223B-04
Fecal Coliforms	100	20	cfu/g	20	10/14/20 17:20	RM/RM	SM9222D-06
Total Coliform	9400	100	cfu/g	100	10/14/20 17:20	RM/RM	SM9222B-06

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November 05, 2020
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Analysis Report

November 05, 2020

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information		Custody Information		Date	Time
Matrix:	SLUDGE	Collected by:	KG	10/14/20	11:40
Location Code:	BARNHARD	Received by:	B	10/14/20	16:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G11301				

Laboratory Data

SDG ID: GCG96886
Phoenix ID: CG96888

Project ID: SLUDGE COLIFORMS Q4
Client ID: SLUDGE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	41	10	MPN/g	10	10/14/20 17:20	C/KDB	SM9223B-04
Fecal Coliforms	60	20	cfu/g	20	10/14/20 17:20	RM/RM	SM9222D-06
Total Coliform	13000	100	cfu/g	100	10/14/20 17:20	RM/RM	SM9222B-06

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November 05, 2020
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

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Analysis Report

November 05, 2020

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information		Custody Information		Date	Time
Matrix:	SLUDGE	Collected by:	KG	10/14/20	11:45
Location Code:	BARNHARD	Received by:	B	10/14/20	16:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G11301				

Laboratory Data

SDG ID: GCG96886
Phoenix ID: CG96889

Project ID: SLUDGE COLIFORMS Q4
Client ID: SLUDGE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	63	10	MPN/g	10	10/14/20 17:20	C/KDB	SM9223B-04
Fecal Coliforms	100	20	cfu/g	20	10/14/20 17:20	RM/RM	SM9222D-06
Total Coliform	6200000	100000	cfu/g	100000	11/03/20 17:20	LJ/LJ	SM9222B-06

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Phyllis Shiller, Laboratory Director
November 05, 2020
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

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Analysis Report

November 05, 2020

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information		Custody Information		Date	Time
Matrix:	SLUDGE	Collected by:	KG	10/14/20	11:50
Location Code:	BARNHARD	Received by:	B	10/14/20	16:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G11301				

Laboratory Data

SDG ID: GCG96886
Phoenix ID: CG96890

Project ID: SLUDGE COLIFORMS Q4
Client ID: SLUDGE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	84	10	MPN/g	10	10/14/20 17:20	C/KDB	SM9223B-04
Fecal Coliforms	100	20	cfu/g	20	10/14/20 17:20	RM/RM	SM9222D-06
Total Coliform	9400	100	cfu/g	100	10/14/20 17:20	RM/RM	SM9222B-06

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Phyllis Shiller, Laboratory Director
November 05, 2020
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

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Analysis Report

November 05, 2020

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information		Custody Information		Date	Time
Matrix:	SLUDGE	Collected by:	KG	10/14/20	11:55
Location Code:	BARNHARD	Received by:	B	10/14/20	16:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G11301				

Laboratory Data

SDG ID: GCG96886
Phoenix ID: CG96891

Project ID: SLUDGE COLIFORMS Q4
Client ID: SLUDGE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	52	10	MPN/g	10	10/14/20 17:20	C/KDB	SM9223B-04
Fecal Coliforms	120	20	cfu/g	20	10/14/20 17:20	RM/RM	SM9222D-06
Total Coliform	10200	100	cfu/g	100	10/14/20 17:20	RM/RM	SM9222B-06

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November 05, 2020
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Analysis Report

November 05, 2020

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P.O. Box 3
Colrain, MA 01340

Sample Information		Custody Information		Date	Time
Matrix:	SLUDGE	Collected by:	KG	10/14/20	12:00
Location Code:	BARNHARD	Received by:	B	10/14/20	16:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G11301				

Laboratory Data

SDG ID: GCG96886
Phoenix ID: CG96892

Project ID: SLUDGE COLIFORMS Q4
Client ID: SLUDGE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Escherichia Coli	31	10	MPN/g	10	10/14/20 17:20	C/KDB	SM9223B-04
Fecal Coliforms	60	20	cfu/g	20	10/14/20 17:20	RM/RM	SM9222D-06
Total Coliform	11000	100	cfu/g	100	10/14/20 17:20	RM/RM	SM9222B-06

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Phyllis Shiller, Laboratory Director
November 05, 2020
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

Thursday, November 05, 2020

Criteria: None

State: MA

Sample Criteria Exceedances Report

GCG96886 - BARNHARD

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

November 05, 2020 SDG I.D.: GCG96886

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 1.5 °C Pg of

Data Delivery/Contact Options:
☐ Fax:
☒ Phone: 413-624-3471 x3722
☒ Email: keith.gammell@banhardt.net

Customer: Banhardt
Address: 247 Main Rd
Colrain Mass 01340

Project: Sludge - Total + fecal coliforms
Report to: Keith Gammell Q-4
Invoice to: Banhardt
QUOTE #

Project P.O: G-11301

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 10-14-20

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Total fecal + Total Coliforms	MS/MSD *	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCL	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
96886	Sludge Grab	SL	10-14-20	11:30	1											X		
96887	Sludge Grab	SL	10-14-20	11:35	1											X		
96888	Sludge Grab	SL	10-14-20	11:40	1											X		
96889	Sludge Grab	SL	10-14-20	11:45	1											X		
96890	Sludge Grab	SL	10-14-20	11:50	1											X		
96891	Sludge Grab	SL	10-14-20	11:55	1											X		
96892	Sludge Grab	SL	10-14-20	12:00	1											X		

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	10-14-20	1200
[signature]	[signature]	10-14-20	1632

Comments, Special Requirements or Regulations:
Attn: Kathy C

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

Turnaround Time:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ (Residential) Direct Exposure
☐ (Comm/Industrial) Direct Exposure
☐ GA Leachability
☐ GB Leachability
☐ GA-GW Objectives
☐ GB-GW Objectives

CT
☐ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1 ☐ MWRA eSMART
☐ GW-2 ☐ S-1 10% CALC
☐ GW-3
☐ S-1 GW-1 ☐ S-1 GW-2 ☐ S-1 GW-3
☐ S-2 GW-1 ☐ S-2 GW-2 ☐ S-2 GW-3
☐ S-3 GW-1 ☐ S-3 GW-2 ☐ S-3 GW-3
☐ SW Protection

State where samples were collected: MA

Data Format
☐ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

PEL-126 REV. 06/20