PHOENIX
Environmental Laboratories, Inc.

Friday, April 16, 2021

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

Project ID: SLUDGE TOTAL + FECAL
SDG ID: GCH99217
Sample ID#s: CH99217 - CH99223

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.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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

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

Sample Id Cross Reference

April 16, 2021

SDG I.D.: GCH99217

Project ID: SLUDGE TOTAL + FECAL

Client Id	Lab Id	Matrix
SLUDGE GRAB	CH99217	SLUDGE
SLUDGE GRAB	CH99218	SLUDGE
SLUDGE GRAB	CH99219	SLUDGE
SLUDGE GRAB	CH99220	SLUDGE
SLUDGE GRAB	CH99221	SLUDGE
SLUDGE GRAB	CH99222	SLUDGE
SLUDGE GRAB	CH99223	SLUDGE

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

Analysis Report

April 16, 2021

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	04/14/21	11:30
Location Code:	BARNHARD	Received by:	B	04/14/21	16:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G12043				

Laboratory Data

SDG ID: GCH99217
Phoenix ID: CH99217

Project ID: SLUDGE TOTAL + FECAL
Client ID: SLUDGE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fecal Coliforms in Sludge	3870	10	MPN/g	10	04/14/21 19:00	LJ/LJ	Colilert-18
Total Coliform	48000	1000	cfu/g	1000	04/14/21 17:25	LJ/C	SM9222B-06
Total Solids @ 104C	14.5	0.1	%	1	04/14/21	AP/LS	SM2540B-11

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

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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.

Phyllis Shiller, Laboratory Director
April 16, 2021
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

April 16, 2021

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	04/14/21	11:35
Location Code:	BARNHARD	Received by:	B	04/14/21	16:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G12043				

Laboratory Data

SDG ID: GCH99217
Phoenix ID: CH99218

Project ID: SLUDGE TOTAL + FECAL
Client ID: SLUDGE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fecal Coliforms in Sludge	3650	10	MPN/g	10	04/14/21 19:00	LJ/LJ	Colilert-18
Total Coliform	105000	1000	cfu/g	1000	04/14/21 17:25	LJ/C	SM9222B-06
Total Solids @ 104C	14.4	0.1	%	1	04/14/21	AP/LS	SM2540B-11

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

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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.

Phyllis Shiller, Laboratory Director
April 16, 2021
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

April 16, 2021

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	04/14/21	11:40
Location Code:	BARNHARD	Received by:	B	04/14/21	16:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G12043				

Laboratory Data

SDG ID: GCH99217
Phoenix ID: CH99219

Project ID: SLUDGE TOTAL + FECAL
Client ID: SLUDGE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fecal Coliforms in Sludge	1960	10	MPN/g	10	04/14/21 19:00	LJ/LJ	Colilert-18
Total Coliform	75000	1000	cfu/g	1000	04/14/21 17:25	LJ/C	SM9222B-06
Total Solids @ 104C	14.4	0.1	%	1	04/14/21	AP/LS	SM2540B-11

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

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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.

Phyllis Shiller, Laboratory Director
April 16, 2021
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

April 16, 2021

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	04/14/21	11:45
Location Code:	BARNHARD	Received by:	B	04/14/21	16:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G12043				

Laboratory Data

SDG ID: GCH99217
Phoenix ID: CH99220

Project ID: SLUDGE TOTAL + FECAL
Client ID: SLUDGE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fecal Coliforms in Sludge	4610	10	MPN/g	10	04/14/21 19:00	LJ/LJ	Colilert-18
Total Coliform	106000	1000	cfu/g	1000	04/14/21 17:25	LJ/C	SM9222B-06
Total Solids @ 104C	14.3	0.1	%	1	04/14/21	AP/LS	SM2540B-11

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

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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.

Phyllis Shiller, Laboratory Director
April 16, 2021
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

April 16, 2021

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	04/14/21	11:50
Location Code:	BARNHARD	Received by:	B	04/14/21	16:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G12043				

Laboratory Data

SDG ID: GCH99217
Phoenix ID: CH99221

Project ID: SLUDGE TOTAL + FECAL
Client ID: SLUDGE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fecal Coliforms in Sludge	2610	10	MPN/g	10	04/14/21 19:00	LJ/LJ	Colilert-18
Total Coliform	79000	1000	cfu/g	1000	04/14/21 17:25	LJ/C	SM9222B-06
Total Solids @ 104C	14.0	0.1	%	1	04/14/21	AP/LS	SM2540B-11

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

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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.

Phyllis Shiller, Laboratory Director
April 16, 2021
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

April 16, 2021

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	04/14/21	11:55
Location Code:	BARNHARD	Received by:	B	04/14/21	16:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G12043				

Laboratory Data

SDG ID: GCH99217
Phoenix ID: CH99222

Project ID: SLUDGE TOTAL + FECAL
Client ID: SLUDGE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fecal Coliforms in Sludge	2760	10	MPN/g	10	04/14/21 19:00	LJ/LJ	Colilert-18
Total Coliform	90000	1000	cfu/g	1000	04/14/21 17:25	LJ/C	SM9222B-06
Total Solids @ 104C	14.2	0.1	%	1	04/14/21	AP/LS	SM2540B-11

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

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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.

Phyllis Shiller, Laboratory Director
April 16, 2021
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

April 16, 2021

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	04/14/21	12:00
Location Code:	BARNHARD	Received by:	B	04/14/21	16:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G12043				

Laboratory Data

SDG ID: GCH99217
Phoenix ID: CH99223

Project ID: SLUDGE TOTAL + FECAL
Client ID: SLUDGE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fecal Coliforms in Sludge	4350	10	MPN/g	10	04/14/21 19:00	LJ/LJ	Colilert-18
Total Coliform	102000	1000	cfu/g	1000	04/14/21 17:25	LJ/C	SM9222B-06
Total Solids @ 104C	14.3	0.1	%	1	04/14/21	AP/LS	SM2540B-11

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

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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.

Phyllis Shiller, Laboratory Director
April 16, 2021
Reviewed and Released by: Rashmi Makol, Project Manager

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

QA/QC Report

April 16, 2021

QA/QC Data

SDG I.D.: GCH99217

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 571045 (%), QC Sample No: CH99217 (CH99217, CH99218, CH99219, CH99220, CH99221, CH99222, CH99223)													
Total Solids	BRL	0.1	14.5	14.4	0.70	100						75 - 125	30

Comment:

Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
April 16, 2021

Friday, April 16, 2021

Criteria: None

State: MA

Sample Criteria Exceedances Report

GCH99217 - 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.

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

Analysis Comments

April 16, 2021 SDG I.D.: GCH99217

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

Cooler: Yes [X] No [ ]
Coolant: IPK [X] 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 1.4 °C Pg of

Data Delivery/Contact Options:
[X] ~~Fax~~ Phone: 413-624-3471 x3722
[X] ~~Phone~~ Fax: Keith.gammell@bamhardt.net
[X] Email: Bill.Trenholm@bamhardt.net

Customer: Bamhardt
Address: 247 Main Rd
Colrain Mass 01340

Project: sludge Total + fecal coliforms
Report to: Keith Gammell - Bill Trenholm
Invoice to: Bamhardt
QUOTE # "Q-2 2021"
Project P.O: C-12043

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: K
Date: 4-14-21

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 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
99217	sludge Grab	WW	4-14-21	11:30	1								X					
99218	sludge Grab	WW	4-14-21	11:35	1								X					
99219	sludge Grab	WW	4-14-21	11:40	1								X					
99220	sludge Grab	WW	4-14-21	11:45	1								X					
99221	sludge Grab	WW	4-14-21	11:50	1								X					
99222	sludge Grab	WW	4-14-21	11:55	1								X					
99223	sludge Grab	WW	4-14-21	12:00	1								X					

Relinquished by:	Accepted by:	Date:	Time:
K	C	4-14-21	1321
Gam	Krystal Hall	4-14-21	1643

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*
[X] 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
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[ ] Phoenix Std Report
[ ] Other

* SURCHARGE APPLIES

PEL-126 REV. 06/20