

Bureau of Environmental Health
 8930 Stanford Boulevard, Columbia, MD 21045
 Main: 410-313-2640 | Fax: 410-313-2648
 TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
 Facebook: www.facebook.com/hocohealth

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 8/2/23 **ONSITE SEWAGE DISPOSAL SYSTEM** P 57/1981

APPROVAL DATE: 2/20/24 **PERMIT: New CONSTRUCTION** A _____

PROPERTY ADDRESS: 2060 Woodbine Road

SUBDIVISION: _____ LOT: _____ TAX ID: _____

CONTRACTOR: C & L Excavating EMAIL: _____

CONTRACTOR ADDRESS: 347 Chestnut Hill Rd, Forest Hill, MD 21050 PHONE: 443-640-6011

PROPERTY OWNER: Matthew Roemer & Debbie Jerez EMAIL: _____

OWNER ADDRESS: 2060 Woodbine Road, Woodbine, MD 21797 PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Mayer Bros

PUMP MODEL: Zoeller Model 151 PUMP SIZE 95 1/3 HP PUMP TANK CAPACITY: 2000

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

| | | |
|-----------|---|--|
| TRENCHES: | LINEAR FEET REQUIRED: <u>117</u> | INLET DEPTH: <u>2</u> |
| | TRENCH WIDTH: <u>3</u> | MAXIMUM BOTTOM DEPTH: <u>8</u> |
| | MINIMUM SPACE BETWEEN TRENCHES: <u>15</u> | EFFECTIVE AREA BEGINNING DEPTH: <u>2</u> |
| LOCATION: | PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION. | |
| NOTES: | | |

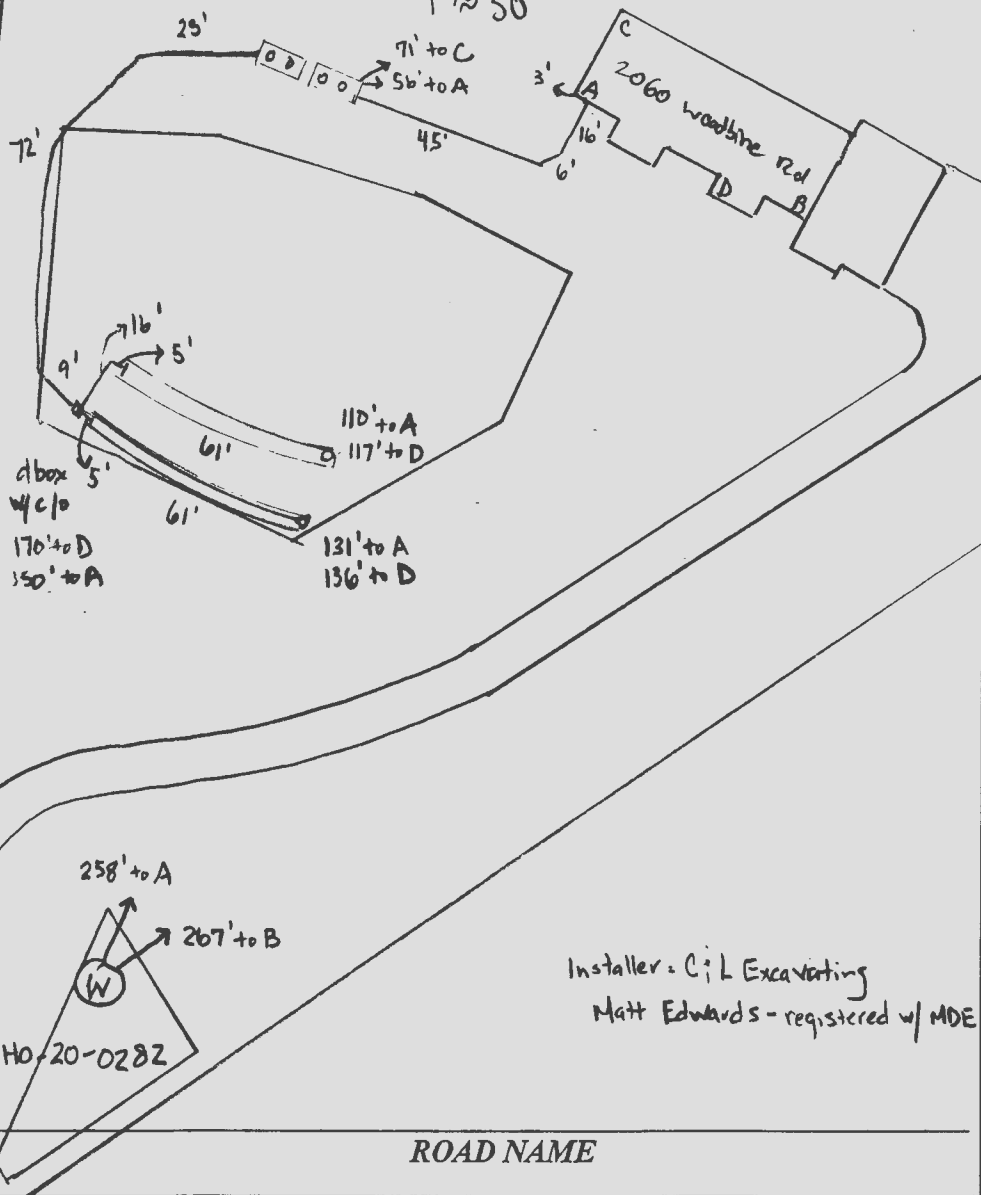
ISSUED BY: Robert Freemon *M.C.* ISSUE DATE: 8/2/23 EXPIRATION DATE: 8/2/24

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
 ELECTRICAL PERMIT ISSUED E 23002183
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.
 CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

Matt Edwards: 410-365-5032

NOT TO SCALE
1" ≈ 50'



| TRENCH/DRAINFIELD DATA | | |
|-------------------------|-------|----------------------|
| WIDTH | INLET | BOTTOM |
| 3' | 2' | 8' |
| NUMBER OF TRENCHES | | 2 |
| TOTAL LENGTH | | 122' |
| ABSORPTION AREA | | 366 sq ft + sidewalk |
| DISTRIBUTION BOX LEVEL | | yes |
| DISTRIBUTION BOX BAFFLE | | no (for turn down) |
| DISTRIBUTION BOX PORT | | yes |

| SEPTIC TANK DATA | |
|------------------------|-------------------------------|
| SEPTIC TANK 1 LEVEL | yes |
| MANUFACTURER | Back River |
| CAPACITY | 2000 GAL |
| SEAM LOC | top |
| TANK LID DEPTH | 2'-2.5' |
| BAFFLES | front 6" / back 4" |
| BAFFLE FILTER | - |
| MANHOLE LOC | front / back |
| 6" PORT LOC | - |
| WATERTIGHT TEST | - |
| SLOTTED | yes |
| DATE ON LID | 8/13/23 |
| PUMP/SEPTIC TANK LEVEL | |
| MANUFACTURER | Back River |
| CAPACITY | 2000 GAL |
| SEAM LOC | top |
| TANK LID DEPTH | 2'-2.5' |
| BAFFLES | - |
| BAFFLE FILTER | - |
| MANHOLE LOC | front / back |
| 6" PORT LOC | - |
| WATERTIGHT TEST | - |
| SLOTTED | - |
| DATE ON LID | 12/18/23 (2 day cure time) |

Installer: C/L Excavating
Matt Edwards - registered w/ MDE

PRE-CONSTRUCTION:

12/19/2022 - Contractor onsite for layout. Located plumbing location to come out of house, contractor stated they will be coming out higher than plan, tanks will have < 3' cover & there will be enough fall. While outside, contractor had dug inlet line & started laying pipe, told contractor not to do again. SDA corners - closest to SCA staked, trenches staked. Upper trench length @ 60' & lower @ 59'. Space between trenches 16"-18". Upper trench off contours by 1" or less, lower trench off contours by 2" or less. (S)

INSTALLATION: 12/20/23 - site inspection contractor onsite, trenches complete, snc made; sewer line complete. both the septic tank & pump tanks were installed, the pump tank only had a cure date of 2 days - not 7 days, requested that they not backfill the pump tank until we get spec from Back River, reinspect for FM's baffles, trenches @ 61' (x2), geotextile fabric in place, stone double washed, observation ports installed. (S) 12/21/23 - FM constructed from pump tank to dbox, 2" line, PSI 280, line turns down into the dbox (no baffle), 6" x 4" baffles on ST ok, ok to backfill, reinspect for P&A. (S) 12/21/23 - cure time of 2 days for the pump tank ok'd by J. Williams & M. Davis. (S) 2/20/24 - P&A ok (S)

FINAL INSPECTOR R. Rappaport DATE OF APPROVAL 2/20/24



347 CHESTNUT HILL ROAD, PO BOX 184
FOREST HILL, MD 21050

O 443-640-6011
F 443-640-6088

8/2/2023

I, Matthew Edwards authorize Lester Williams to apply for a Septic System Permit for 2060 Woodbine Road Woodbine, MD 21797. If you have any questions, please call me.

Matthew Edwards
(410) 365-5032

COMPLETE EXCAVATION SERVICES

Septic Systems-Standard & Alternative • Sewer & Water Installation • Excavating
Site Preparation • Demolition • Screened Topsoil • Hauling

Rappaport, Ryan

From: Williams, Jeffrey
Sent: Thursday, December 21, 2023 9:21 AM
To: mattbackriver; Wolf, Kevin; Rappaport, Ryan; Page, Shepsura
Subject: RE: 2000 GAL TANK MADE 12-18-23

I think 3-4 random reports that go all the way to 28 days would be interesting to see. I will likely take you up on learning more about the concrete process in the new year. Even short of updating our code, we can get a policy together. So you know, that section of our code was done in 2007 and was lifted from AA Co code that was written who knows when, so we figured it was probably outdated based on modern techniques. Thanks
Jeff

From: mattbackriver <mattbackriver@gmail.com>
Sent: Wednesday, December 20, 2023 4:38 PM
To: Williams, Jeffrey <jewilliams@howardcountymd.gov>; Wolf, Kevin <KWolf@howardcountymd.gov>; Rappaport, Ryan <RRappaport@howardcountymd.gov>; Page, Shepsura <spage@howardcountymd.gov>
Subject: RE: 2000 GAL TANK MADE 12-18-23

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Jeff
How many reports do you want?
If you want i can write a good concrete reg
FYI no one specifying when concrete is acceptable uses age
They all use psi strength
MDOT-SHA specification is
Concrete shall meet design strength in 28 days and no item shall be shipped prior to the item meeting 100% of design strength
They have different design strengths for different items
Basically precast items are either 4500 psi or 5000 psi

Sent from my T-Mobile 4G LTE Device

----- Original message -----

From: "Williams, Jeffrey" <jewilliams@howardcountymd.gov>
Date: 12/20/23 3:58 PM (GMT-05:00)
To: Matthew Geckle <mattbackriver@gmail.com>, "Wolf, Kevin" <KWolf@howardcountymd.gov>, "Rappaport, Ryan" <RRappaport@howardcountymd.gov>, "Page, Shepsura" <spage@howardcountymd.gov>, Matt Edwards <matt@candlexcavating.com>
Subject: RE: 2000 GAL TANK MADE 12-18-23

Thanks Matt. FYI, our local code section 3.810(d)(7) it states "a tank may not be delivered to Howard County prior to the concrete achieving 'working strength' and, in no case, in less than the minimum 7 days curing period." Your report is saying that the concrete you poured exceeded our minimum PSI after 1 day. Can you provide any other data, such as

some other QC reports showing your concrete strength after 1 day, 7 day, 28? What we'd be doing here is buying into the idea that the 7 day minimum is not necessary. We can use this as evidence that we can buy into a 1 day cure period for your tanks and we can look into updating code language the next time we are able to revise our code. Thanks

Jeff

From: Matthew Geckle <mattbackriver@gmail.com>

Sent: Wednesday, December 20, 2023 3:26 PM

To: Williams, Jeffrey <jewilliams@howardcountymd.gov>; Wolf, Kevin <KWolf@howardcountymd.gov>; Rappaport, Ryan <RRappaport@howardcountymd.gov>; Page, Shepsura <spage@howardcountymd.gov>; Matt Edwards <matt@candlexcavating.com>

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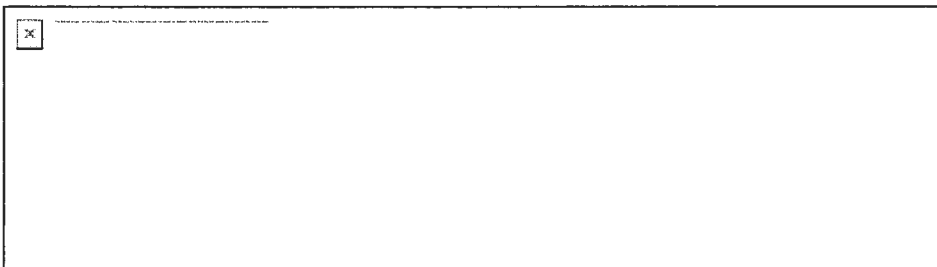
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Ryan,

Attached is the quality control report for the concrete Back River Precast poured on Monday December 18,2023

The concrete had a PSI strength of 5648 psi.

Here is a copy of Ho Co code 3.810(A)(10)



Also for your information Back River Precast is:

A NPCA certified plant

A MDOT-SHA Approved plant

I am :

ACI certified

NPCA certified

MDOT-SHA certified

While none of the other tank manufacturers supplying tanks to Ho. Co. have those certifications.

We test our concrete everyday and I have 2 people that all they do is make sure our concrete and our products are made to specification.

If you need anything else please let me know.

Matt Geckle

Back River Pre-Cast, LLC

410-833-3394

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Subject: RE: 2000 GAL TANK MADE 12-18-23

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<matt@candleexcavating.com>

Subject: 2000 GAL TANK MADE 12-18-23

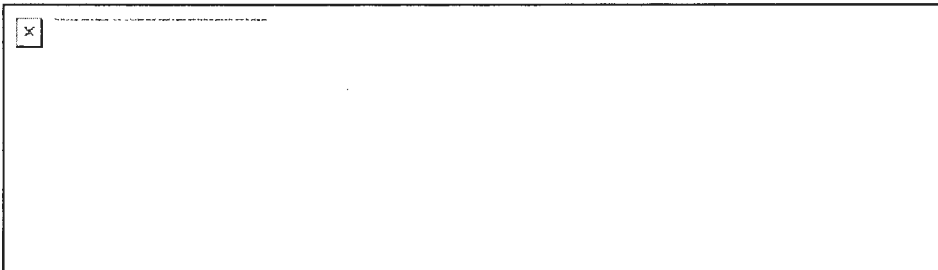
[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Ryan,

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The concrete had a PSI strength of 5648 psi.

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Also for your information Back River Precast is:

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A MDOT-SHA Approved plant

I am :

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While none of the other tank manufacturers supplying tanks to Ho. Co. have those certifications.

We test our concrete everyday and I have 2 people that all they do is make sure our concrete and our products are made to specification.

If you need anything else please let me know.

Matt Geckle

Back River Pre-Cast, LLC

410-833-3394

Rappaport, Ryan

From: Matthew Geckle <mattbackriver@gmail.com>
Sent: Wednesday, December 20, 2023 3:30 PM
To: Williams, Jeffrey; Wolf, Kevin; Rappaport, Ryan; Page, Shepsura
Subject: CONCRETE TESTING
Attachments: 20231220_150053_resized.jpg; 20231220_150018_resized.jpg

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Ryan,

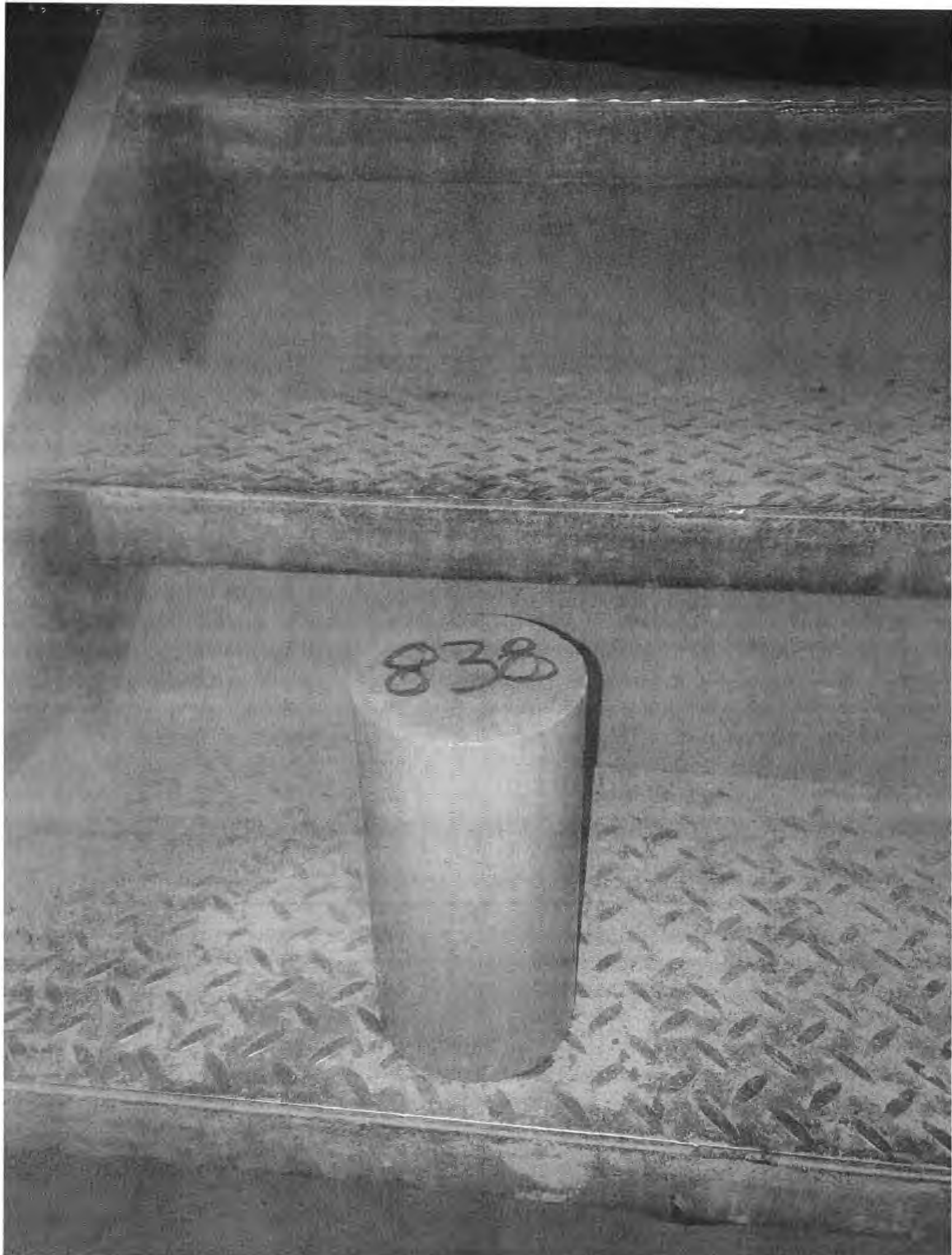
You asked how we test the PSI of concrete.

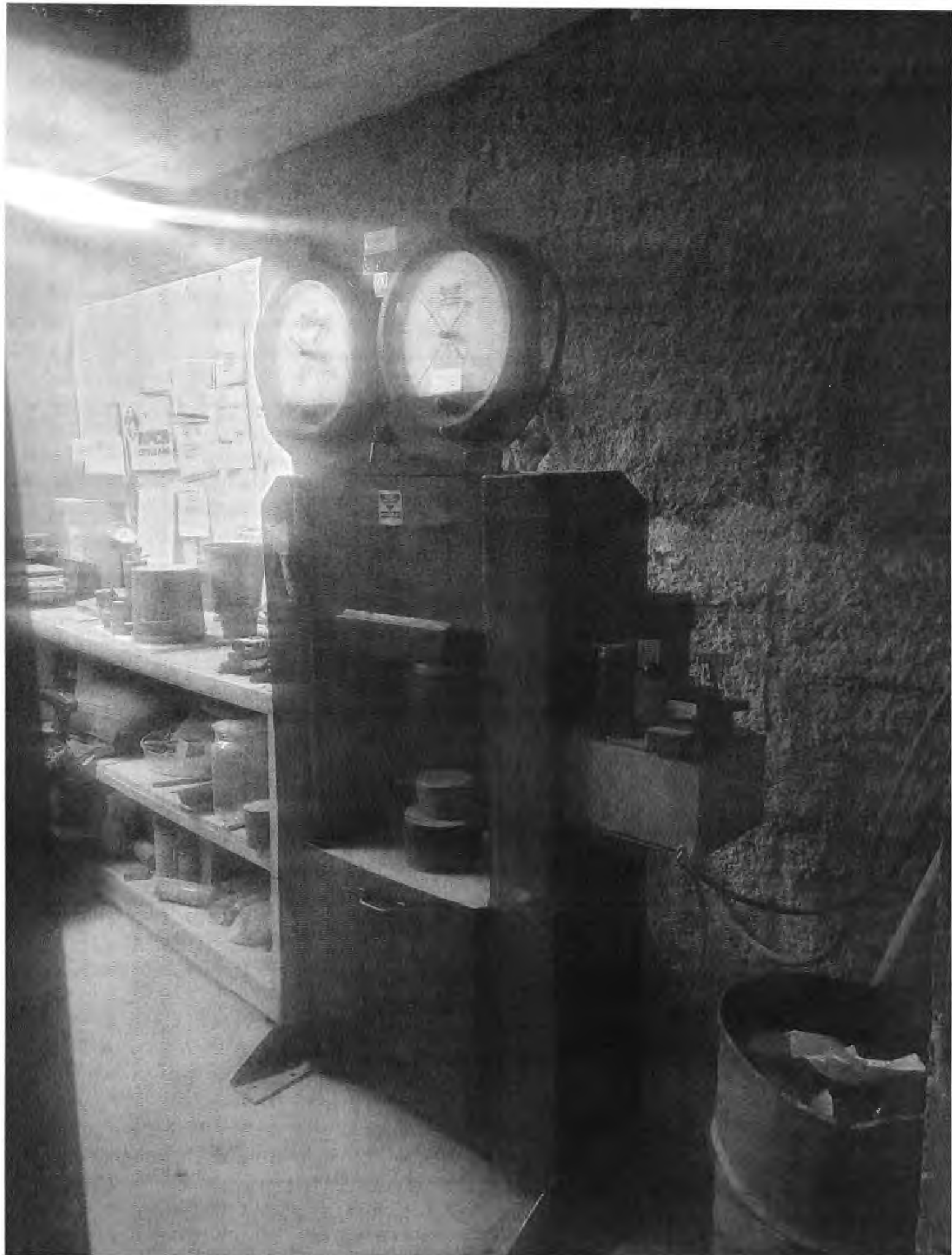
Attached are pictures of our concrete cylinder break machine and what a concrete cylinder looks like.

You make cylinders, cure them and break them in accordance with ACI specifications.

Let me know when you would like a tour of our plant to learn how precast concrete products are made.

*Matt Geckle
Back River Pre-Cast, LLC
410-833-3394*





BACK RIVER PRE-CAST, LLC.

MANUFACTURERS OF PRECAST CONCRETE PRODUCTS

P.O. BOX 329 GLYNDON, MD 21071

PHONE (410) 833-3394 FAX (410) 833-4116

QUALITY CONTROL DEPARTMENT

CONCRETE TESTING REPORT

MON. TUES. WED. THURS. FRI. SAT.

DATE: 12-18-23

JOB NO. _____

JOB NAME _____

SLUMP 4

CYLINDER NO. 843 845 847 849

AIR ENTRAINMENT (%) 5%

844 846 848 850

UNIT WEIGHT 147 lbs

BREAK DATE 12-19 12-26 1-15

CONCRETE TEMP. 68°

CURING AGE 100 7 DAY 28d

AMBIENT TEMP. 60°

LOAD IN LBS. 7000

TIME MADE 12:57

7200

REQ. PSI @ 28 DAYS _____

PSI STRENGTH 5569

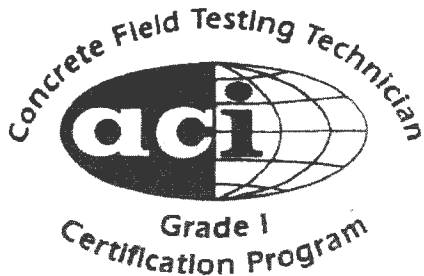
ITEMS CAST TODAY : SEE PRODUCTION REPORT

5728

REMARKS _____

AC CONCRETE FIELD TESTING

TECHNICIAN - GRADE 1



DANIEL C. LIPSCOMB

ID # 01297087

Rappaport, Ryan

From: Matthew Geckle <mattbackriver@gmail.com>
Sent: Wednesday, December 20, 2023 3:26 PM
To: Williams, Jeffrey; Wolf, Kevin; Rappaport, Ryan; Page, Shepsura; Matt Edwards
Subject: 2000 GAL TANK MADE 12-18-23
Attachments: 20231220150224_001.pdf

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Ryan,

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Here is a copy of Ho Co code 3.810(A)(10)

The minimum 28 day compressive strength of concrete used to fabricate tanks and other sewage disposal tanks

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Matt Geckle
Back River Pre-Cast, LLC
410-833-3394

2060 Woodbine Rd.

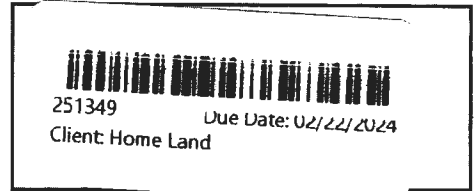
P&A inspection 2/20/24

Conduit & junction box on post ~ 12" above grade
conduit runs over riser & under riser lid. -

patched w/
putty. (RM)



HOME LAND LABS



Phone: (443) 505-8375 Email: lab@homelandhealthyhomes.com

| | | | |
|---|---|---|---|
| 1220 E Joppa Rd. Ste C505 Towson, MD 21286 MD Lab # 365 | 108 Old Solomons Island Road, Ste L2 Annapolis, MD 21401 MD Lab # 106 | 3430 Rockefeller Court Waldorf, MD 20602 MD Lab # 139 | 2216 Commerce Road, Ste 2A Forest Hill, MD 21050 |
|---|---|---|---|

Please provide completed form with samples. Highlighted fields are required.

| | |
|---|---------------------------|
| Client Name: Home Land Environmental | Property Address: |
| Email Address: info@homelandhealthyhomes.com | 2060 Woodbine Road |
| Phone Number: 443-995-5385 | Woodbine, MD 21797 |

Field Collection Information

| | |
|--|-----------------------------------|
| Sampler Name: D. Vincent | Field pH: 5.7 |
| Sampler ID #: 2222DV | Field Chlorine (mg/L): 0.0 |
| Date Sampled: 2-20-24 Time Sampled: 11:30 | Sand: none |
| Well Tag Number: H0-20-0282 | Clarity: yes |
| Compliance sample for public water system? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, PWS ID #: | |

Well Casing and Cap Condition

Well Type: Drilled Well Pit Below Grade Artesian Hand Dug N/A Other: _____

| | | | |
|------------------------------------|-------------------------|--------------------------------|------------------------|
| Height Above Grade: 24" | Cap Type: 2" PVC | Casing: 6" PVC | Conduit: Secure |
| Sample Point: Pressure Tank | | Water Conditioning: N/A | |

Requested Testing: (Please check all that apply)

COP

- Potability (Bacteria, Nitrate + Nitrite, Turbidity)
- FHA/VA (Bacteria, Nitrate + Nitrite, Turbidity, Lead, Iron)
- Bacteria Chlorides Total Dissolved Solids
- Lead Hardness Copper
- Nitrate + Nitrite Arsenic VOCs
- Iron Cadmium Other: _____
- Turbidity Gross Alpha Other: _____

List rush samples below
Refer to table for rush turnaround times and fees

Release Signatures

| | | |
|--|--|---|
| Released By: <u>D. Vincent</u> | Date/Time: <u>2/20/24 12:30</u> | Samples received on ice? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Released By: _____ | Date/Time: _____ | Temperature: _____ |
| Released By: _____ | Date/Time: _____ | |
| Received in lab by: <u>Glenh Clay</u> | Date/Time: <u>2/20/24 12:30</u> | |