

C 1 7245

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

1 2 3 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED MM DD YY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER STREET OR RFD SUBDIVISION TOWN SECTION LOT

WELL LOG table with columns for DESCRIPTION, FEET (FROM, TO), and check if water bearing. Includes handwritten entries: Brown shale, Gray Granite.

GROUTING RECORD form with fields for CEMENT, BENTONITE CLAY, NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD form with fields for MAIN CASING TYPE, Nominal diameter, Total depth.

OTHER CASING (if used) form with fields for diameter, depth.

SCREEN RECORD form with fields for screen type or open hole, and options for STEEL, BRASS, BRONZE, PLASTIC, OPEN HOLE, OTHER.

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED Y N

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

DRILLERS LIC. NO. M S D 009

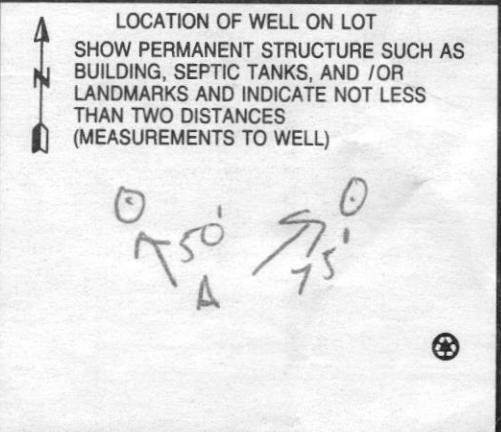
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

DEPTH (nearest ft.) table with columns 1-27 and handwritten values: HO, 53, 175.

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

PUMPING TEST form with fields for HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, BEFORE PUMPING, WHEN PUMPING, TYPE OF PUMP USED.

PUMP INSTALLED form with fields for DRILLER INSTALLED PUMP, TYPE OF PUMP INSTALLED, CAPACITY, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT.



B 1 4338

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-95-1184 fill in this form completely

526657 please type

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13 Keelty Company P.O. Box 528 Timonium md 21094

B 3 LOCATION OF WELL

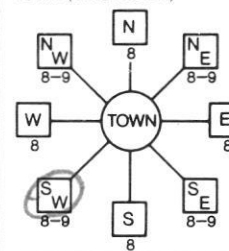
8 COUNTY Howard 21 Myrtue Property 23 SUBDIVISION 42 SECTION 44 46 LOT 5 48 50 Woodstock 52 NEAREST TOWN 71 MILES FROM TOWN (enter 0 if in town) 2 73 76 77 78

DRILLER INFORMATION

Allen Compton MS D 009 Eagles Well Drilling 580 Obrecht Rd 4-14-07

B 4

1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Woodstock rd. 11 NEAR WHAT ROAD 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH WEST SOUTH EAST 34 37 DISTANCE FROM ROAD FT ENTER FT OR MI 38 39 TAX MAP: 10 BLK: 24 PARCEL 225

B 2 WELL INFORMATION APPROX. PUMPING RATE 5 (GAL. PER MIN.) 8 12 AVERAGE DAILY QUANTITY NEEDED 500 (GAL. PER DAY) 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION I INDUSTRIAL, COMMERCIAL, DEWATERING P PUBLIC WATER SUPPLY WELL T TEST, OBSERVATION, MONITORING G GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard A514006-19 COUNTY NAME COUNTY NO STATE SIGNATURE DATE ISSUED 8/8/07 EXP. DATE 8/8/10 CO SIGNATURE EAST GRID 836 000 NORTH GRID 541 000

APPROXIMATE DEPTH OF WELL 300 FEET 24 28 APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTary Drive-POINT other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- N THIS WELL WILL NOT REPLACE AN EXISTING WELL Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS D THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER HO 2006 G 018 PERMIT No. HO-95-1184

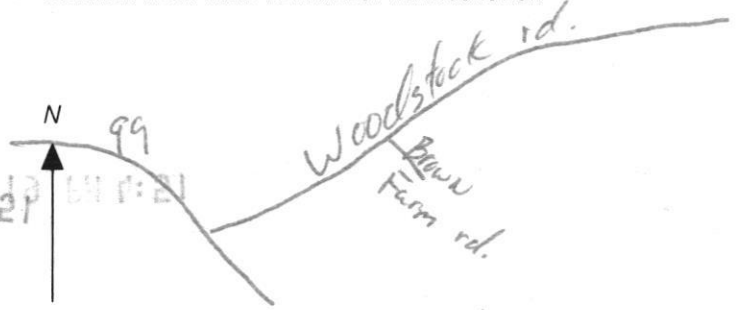
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER 1. 2. 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 836 N 541

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Need radium sample @ yield test

Yield Test Data Sheet

County File # _____
District 2

MD Well Permit #: HO-95-1181

Date of Test: 8-28-07

Subdivision Name: my future pro

Section _____ Lot # 5

Street Address: _____

Measuring Point (MP) Description: Top of casing
(for ex. "Top of casing")

Distance from MP to ground surface 1 ft.

Well Depth 175' ft.

Well Driller: Fogle's Well Drilling

Must be submitted with the State of Maryland Well Completion Report

Submit to:

Pump Start Time <u>8:00</u>	Static Water level: <u>50</u> ft.	Pumping Rate <u>4 sec</u> () Time to fill <u>1</u> gal. bucket () Flow meter reading (if used)	Calculated Flow (gallons per minute) <u>15</u>
TIME	WATER LEVEL BELOW M.P.		

Water level and pumping rate must be recorded every 15 minutes

#	TIME	WATER LEVEL ft.	PUMPING RATE	CALCULATED FLOW (GPM)
1	8:00	50 ft.	4	15 GPM
2	8:15	72 ft.	5	12 GPM
3	8:30	72 ft.	5	12 GPM
4	8:45	72 ft.	5	12 GPM
5	9:00	72 ft.	5	12 GPM
6	9:15	72 ft.	5	12 GPM
7	9:30	72 ft.	5	12 GPM
8	9:45	72 ft.	5	12 GPM
9	10:00	72 ft.	5	12 GPM
10	10:15	72 ft.	5	12 GPM
11	10:30	72 ft.	5	12 GPM
12	10:45	72 ft.	5	12 GPM
13	11:00	72 ft.	5	12 GPM
14	11:15	72 ft.	5	12 GPM
15		ft.		GPM
16		ft.		GPM
17		ft.		GPM
18		ft.		GPM
19		ft.		GPM
20		ft.		GPM
21		ft.		GPM
22		ft.		GPM
23		ft.		GPM
24		ft.		GPM
25		ft.		GPM
26		ft.		GPM
27		ft.		GPM
28		ft.		GPM
29		ft.		GPM
30		ft.		GPM

NOTES:

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WELL & SEPTIC PROGRAM
TEL: (410)313-1771 FAX: (410)313-2648**

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Barlow Well Drilling Telephone #: 410-838-6910
Address: 522 UNDERWOOD LANE
BEL AIR, MD 21014

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): Michael Isom License# MSD162

***A licensed individual must perform the actual installation. Apprentices must be under the supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification. Unlicensed individuals may be reported to the appropriate licensing agency.**

Name of Property Owner: KEYSTONE HOMES Telephone #: _____
Subdivision: Mystic Property Lot #: 5 Well Tag #: HO-95-1181
Site Address: 1807 DAVIS BRANCH RD
WOODSTOCK MD 21163

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>LOWIUS</u>	Make: <u>BTF</u>	Two piece watertight cap: <u> </u>
Model #: <u>7CS05422</u>	Model#: <u>D100</u>	Screened, vented well cap: <u> </u>
Pump Capacity <u>7</u> GPM	Depth: <u>36</u> (36" min)	Cap secured to casing: <u> </u>
Well Yield: <u>12</u> GPM	NSF/WSC approved: <u> </u>	Conduit min 18" B.G.: <u> </u>
Depth of well encountered at time of pump installation: <u>175</u> (feet)	Conduit secured to well cap: <u> </u>	

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors, Cable guards, or other acceptable method used- Must circle one
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing

<u>Piping to house</u>	<u>House Connection</u>
Type: <u>POLY</u>	PVC sleeve to undisturbed soil at wall penetration: <u> </u>
PSI: <u>200</u> (160 psi min)	Length of sleeve(5' minimum from foundation): <u>6'</u>
Depth of supply line: <u>36</u> (36" min)	Sleeve sealed properly: <u> </u>

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation _____ date 7/11/2022

For Health Department Use Only – Not to be completed by Installer

Date Insp. Requested: _____ Date Insp. Approved: 6/27/22 Inspector: [Signature]
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade
Two piece cap installed and attached to casing securely
Elec. conduit extends at least 18" below grade/attached to cap properly
Safety rope not outside of well cap/casing
Correct well tag attached properly and casing 8" above finished grade
Water supply line sleeved adequately at house connection
Adequate grout observed below pitless adapter

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

INTERIM CERTIFICATE OF POTABILITY
PERMANENT DEVIATION FOR RADIUM
Expiration Date – JUNE 15, 2022

December 15, 2022

Jeff Swenson (owner)
1807 Davis Branch Road
Woodstock, MD 21163

RE: Myrtue Property, Lot 5
1807 Davis Branch Road
Building Permit: B21004204
Well Permit: HO-95-1181

Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **10/20/2022**. Final approval of the well line connection to the dwelling was granted on **6/27/2022**. The well construction was completed on **8/28/2007**. Water samples were collected on **9/29/2022**.

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking.

Gross Alpha and Beta samples were also collected on **8/28/2007**. Results showed a Gross Alpha level of **21.4 ± 4.0 pCi/L** and a Gross Beta level of **18.1 ± 2.1 pCi/L**. **This exceeds the maximum contaminant level (MCL) combined Radium 226 and 228 of 5.0 pCi/L.**

After installation of a radionuclide removal device (water softener), post-treatment water samples were collected on **11/15/2022** and indicated a combined Radium 226/228 level of **<1.3 pCi/L** which is below the MCL of 5 pCi/L.

This Department will grant a **permanent deviation** to the Interim Certificate of Potability on condition that the radionuclide removal system effectively maintains a Gross Alpha level of less than **15 pCi/L**, a Gross Beta level of less than **50 pCi/L**, and a Radium 226/228 level of less than **5 pCi/L**.

Furthermore, it will be necessary for you to comply with the following conditions:

1. The system must be properly operated and maintained continuously in accordance with the service contract for the life of the residence.
2. It is recommended that a Maryland certified water laboratory certified for radionuclide analysis perform a yearly radionuclide analysis.

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

3. If you decide to sell or rent your home in the future, you must make any potential buyer/tenant aware of this permanent deviation. **A person who fails to make this disclosure is subject to the penalties set out in COMAR 26.04.04.12F *Enforcement and Environment Article 9-1311, Annotated Code of Maryland.***

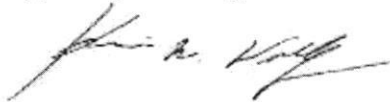
This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-1181. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. **Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the *Annotated Code of Maryland, Environment Article, 9-1311, subject to a fine of up to \$500 or imprisonment not to exceed three months.***

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a Maryland certified water quality laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website:
<http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

In closing, please refer to our "[Homeowner Fact Sheet](#)" which illustrates a better understanding for your onsite sewage disposal system. You will also find a link to Maryland Department of the Environments website which describes in further detail operation and maintenance of your septic system.

Approving Authority,



Kevin M Wolf, L.E.H.S., R.E.H.S./RS, Supervisor
Groundwater Management Section
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits
Community Hygiene Program
File

Reported Date: 10/3/2022

Current Rev R0

Final Comment 0

Attention: Stephen Shelley
Enviro-Chem Laboratories, Inc.
47 Loveton Circle
Suite K
Sparks, MD 21152

Phone: 410-472-1112

Email: steve@enviro-chem.net

Following analytical report covers the analysis performed on samples submitted. Results are tabulated on the attached data pages for the following client designations:

1807 Davis Branch Rd.

Reference number for these samples is EMSL Order #782206863. Please use this reference number for all correspondence. If you have any questions, please do not hesitate to contact me at (800)220-3673.

**EMSL ANALYTICAL, INC.**

200 Route 130 North
 Cinnaminson, NJ 08077
 Telephone: (800)220-3675 FAX: (856)786-0327
cinnaminsonradonlab@emsl.com | <http://www.EMSL.com>

EMSL ORDER ID: 782206863
EMSL CUSTOMER ID: ECHM78

Attention: Stephen Shelley
 Enviro-Chem Laboratories, Inc.
 47 Loveton Circle
 Suite K
 Sparks, MD 21152

Customer PO:
EMSL Project ID:
Project Name: 1807 Davis Branch Rd.

Phone: 410-472-1112
Email: steve@enviro-chem.net

Collected: 09/29/2022 08:15
Received: 09/30/2022 09:40
Analyzed: See Results
Reported: 10/3/2022

Laboratory Report- Sample Summary

EMSL Sample ID.	Client Sample ID.	Start Sampling Date	Start Sampling Time
782206863-0001	1807 Davis Branch Rd.	9/29/2022	8:15 AM

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

<u>Report Date</u>	<u>Report Revision</u>	<u>Revision Comments</u>
10/3/2022	R0	Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

FINAL REPORT OF ANALYSIS

Michael Barlow Well Drilling
522 Underwood Lane
Bel Air, MD 21014

Report Date: 10/05/2022
Report Number: 221005102825
Use and Occupancy
PERMIT #:

LAB#- E072008-01 SAMPLE ID- 1807 Davis Branch Rd WELL # HO 95-1181
LOCATION- Pressure Tank SAMPLER- S Duklewski #3073SD
DATE SAMPLED- 09/29/2022 TIME SAMPLED- 08:15 CHLORINE- Non detect
DATE RECEIVED- 09/29/2022 TIME RECEIVED- 11:20
DELIVERED BY- Steve Duklewski RECEIVED BY- Ginny Shelley
COMMENTS- Secure well, 2 piece PVC cap. No treatment.

OK (Handwritten)

COMMENTS-

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DATA FLAG
Microbiology by Enviro-Chem					
Total Coliform	SM 9223B	09/29/22 13:00	VPS	Absent	PASS
E. Coli	SM 9223B	09/29/22 13:00	VPS	Absent	PASS

Based on coliform bacteriological standards, at the time of sampling this water was **SAFE** for drinking water purposes.

Wet Chemistry by Enviro-Chem

Nitrate (as N)	EPA 300.0	09/29/22 18:07	SES	0.74	mg/L	PASS
pH	SM4500-H+B	09/29/22 15:00	FRD	6.5	SU	
Sand	EPA 160.5	09/29/22 12:45	VPS	< 0.5	ml/L/Hr	
Turbidity	EPA 180.1	09/29/22 15:00	FRD	0.6	NTU	

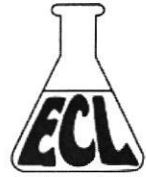
Stephen Shelley
Laboratory Director

Certifications

State of Maryland Laboratory

#192

ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

FINAL REPORT OF ANALYSIS

Michael Barlow Well Drilling
522 Underwood Lane
Bel Air, MD 21014

PROJECT NAME: 1807 Davis Branch Rd
REPORT DATE: 10/26/2022
REPORT NBR: 221026094522

LAB#: E072173-01

SAMPLE ID: 1807 Davis Branch Rd - Treated

LOCATION: Powder Room

DATE SAMPLED: 10/17/2022

TIME SAMPLED: 8:00AM

SAMPLER- M Isom #1113MI

DATE RECEIVED: 10/17/2022

TIME RECEIVED: 4:15PM

DELIVERED BY: Steve Duklewski

RECEIVED BY: Stephen Shelley

COMMENTS: Neutralized and Softener

COMMENTS:

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	Qual	REPORTING LIMIT
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No analyses to report.

Stephen Shelley
Laboratory Director

ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

Qualifier(s)

Certifications

State of Maryland Laboratory

#192



EMSL ANALYTICAL, INC.
200 Route 130 North
Cinnaminson, NJ 08077
Telephone: (800)220-3675 FAX: (856)786-0327
cinnaminsonradonlab@emsl.com | <http://www.EMSL.com>

EMSL ORDER ID: 782207315
EMSL CUSTOMER ID: ECHM78

Reported Date: 10/21/2022
Current Rev R0
Final Comment 0

Attention: Stephen Shelley
Enviro-Chem Laboratories, Inc.
47 Loveton Circle
Suite K
Sparks, MD 21152

Phone: 410-472-1112
Email: steve@enviro-chem.net

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 10/18/2022 at 09:30. The results are tabulated on the attached data pages for the following client designated project:

1807 Davis Branch Rd.

The reference number for these samples is EMSL Order #782207315. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (800)220-3675.

Dominic Gehret, Radiochemistry Laboratory Manager
or other approved signatory

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.

NELAC Certification #: **03036**

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 200 Route 130 North
 Cinnaminson, NJ 08077
 Telephone: (800)220-3675 FAX: (856)786-0327
cinnaminsonradonlab@emsl.com | <http://www.EMSL.com>

EMSL ORDER ID: 782207315
 EMSL CUSTOMER ID: ECHM78

Attention: Stephen Shelley
 Enviro-Chem Laboratories, Inc.
 47 Loveton Circle
 Suite K
 Sparks, MD 21152

Customer PO:
EMSL Project ID:
Project Name: 1807 Davis Branch Rd.

Phone: 410-472-1112
Email: steve@enviro-chem.net

Collected: 10/17/2022 08:00
Received: 10/18/2022 09:30
Analyzed: See Results
Reported: 10/21/2022

Laboratory Report- Sample Summary

EMSL Sample ID.	Client Sample ID.	Start Sampling Date	Start Sampling Time
782207315-0001	1807 Davis Branch Rd.	10/17/2022	8:00 AM

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

<u>Report Date</u>	<u>Report Revision</u>	<u>Revision Comments</u>
10/21/2022	R0	Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
 or other approved signatory

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 Cinnaminson, NJ 08077
 Telephone: (800)220-3675 FAX: (856)786-0327
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EMSL ORDER ID: 782207315
 EMSL CUSTOMER ID: ECHM78

Attention: Stephen Shelley
 Enviro-Chem Laboratories,
 Inc.
 47 Loveton Circle
 Suite K

Customer PO:
EMSL Project ID:
Project Name: 1807 Davis Branch Rd.

Phone: 410-472-1112
Email: steve@enviro-chem.net

Collected: 10/17/2022 08:00
Received: 10/18/2022 09:30
Analyzed: See Results
Reported: 10/21/2022

Analytical Report

Sample Identification: 1807 Davis Branch Rd.

Lab Sample #: 782207315-0001 **Date/Time Collected:** 10/17/2022 08:00 AM

Test Parameter	Units	Result	Uncertainty	SDWA	Start Count	End Count	Analyst	Status	Count	Method	Comment
				DL	Date/ Time	Date/ Time					
NJ Rapid Gross Alpha	pCi/L	2.99	2.43	2.86	10/19/2022 04:00	10/19/2022 05:05	JAW/SA T	First Count		ECLS-R- GA Rev.8	
Gross Beta - EPA 900.0	pCi/L	4.86	2.66	2.93	10/19/2022 04:00	10/19/2022 05:05	JAW/SA T	Not Applicable		EPA 900.0	

Sample Specific Comments

- (1)= Analyte was analyzed for, but not detected above the SDWA DL
- (2)= Analyte was analyzed for, but not detected above the MDA

Additional Comments

- * The uncertainty reported is an expanded uncertainty of 1.96-sigma.
- * For NJ Rapid Gross Alpha, the uncertainty reported is an expanded uncertainty of 1.65-sigma.
- * The SDWA detection limit is defined in 40 CFR 141.25(c) as equal to the analyte concentration which can be counted with a precision of plus or minus 100% at the 95% confidencelevel (1.96σ where σ is the standard deviation of the net counting rate of the sample).
- * For drinking water, the regulatory limit for gross alpha is 15 pCi/L with an SDWA DL of 3 pCi/L..
- * For drinking water, the regulatory limit for combined radium-226 and radium-228 is 5 pCi/L with each having an SDWA DL of 1 pCi/L.
- * If gross alpha result from the 36 – 48 hour count exceeds 5pCi/L, the plancheted sample is recounted between 20 – 28 hours after the midpoint of the initial count.

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<u>Report Date</u>	<u>Report Revision</u>	<u>Revision Comments</u>
10/21/2022	R0	Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
 or other approved signatory

**EMSL ANALYTICAL, INC.**

200 Route 130 North
 Cinnaminson, NJ 08077
 Telephone: (800)220-3675 FAX: (856)786-0327
 cinnaminsonradonlab@emsl.com | http://www.EMSL.com

EMSL ORDER ID: 782206863
EMSL CUSTOMER ID: ECHM78

Attention: Stephen Shelley
 Enviro-Chem Laboratories,
 Inc.
 47 Loveton Circle
 Suite K

Customer PO:
EMSL Project ID:
Project Name: 1807 Davis Branch Rd.

Phone: 410-472-1112
Email: steve@enviro-chem.net

Collected: 09/29/2022 08:15
Received: 09/30/2022 09:40
Analyzed: See Results
Reported: 10/3/2022

Analytical Report

Sample Identification: 1807 Davis Branch Rd.

Lab Sample #: 782206863-0001 **Date/Time Collected:** 9/29/2022 08:15 AM

Test Parameter	Units	Result	Uncertainty	SDWA DL	Start Count Date/ Time	End Count Date/ Time	Analyst	Status Count	Method	Comment
NJ Rapid Gross Alpha	pCi/L	19.0	4.36	2.07	10/01/2022 04:10	10/01/2022 05:10	JAW / SAT	First Count	ECLS-R-GA Rev.8	
NJ Rapid Gross Alpha	pCi/L	7.71	2.77	2.06	10/02/2022 03:21	10/02/2022 04:21	JAW / SAT	Second Count	ECLS-R-GA Rev.8	
Gross Beta - EPA 900.0	pCi/L	12.1	3.33	2.12	10/01/2022 04:10	10/01/2022 05:10	JAW / SAT	Not Applicable	EPA 900.0	

Sample Specific Comments

(1)= Analyte was analyzed for, but not detected above the SDWA DL

(2)= Analyte was analyzed for, but not detected above the MDA

Additional Comments

- * The uncertainty reported is an expanded uncertainty of 1.96-sigma.
- * For NJ Rapid Gross Alpha, the uncertainty reported is an expanded uncertainty of 1.65-sigma.
- * The SDWA detection limit is defined in 40 CFR 141.25(c) as equal to the analyte concentration which can be counted with a precision of plus or minus 100% at the 95% confidence level (1.96σ where σ is the standard deviation of the net counting rate of the sample).
- * For drinking water, the regulatory limit for gross alpha is 15 pCi/L with an SDWA DL of 3 pCi/L..
- * For drinking water, the regulatory limit for combined radium-226 and radium-228 is 5 pCi/L with each having an SDWA DL of 1 pCi/L.
- * If gross alpha result from the 36 – 48 hour count exceeds 5pCi/L, the plancheted sample is recounted between 20 – 28 hours after the midpoint of the initial count.

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

Report Date
10/3/2022

Report Revision
R0

Revision Comments
Initial Report

Dominic Gehret, Radiochemistry Laboratory Manager
or other approved signatory



ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: E072450
 Pace Project No.: 30539765

Sample: E072450-01 Lab ID: 30539765001 Collected: 11/15/22 14:00 Received: 11/18/22 09:50 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.153 ± 0.636 (1.33) C:NA T:95%	.483 pCi/L	12/11/22 15:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.474 ± 0.380 (0.754) C:78% T:82%	.854 pCi/L	12/08/22 14:42	15262-20-1	

0.34 combined.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: E072450
Pace Project No.: 30539765

QC Batch: 549569	Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1	Analysis Description: 903.1 Radium-226
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30539765001

METHOD BLANK: 2669563 Matrix: Water

Associated Lab Samples: 30539765001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0555 ± 0.254 (0.151) C:NA T:93%	pCi/L	12/11/22 15:14	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: E072450
Pace Project No.: 30539765

QC Batch: 549570	Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0	Analysis Description: 904.0 Radium 228
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30539765001

METHOD BLANK: 2669564 Matrix: Water
Associated Lab Samples: 30539765001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.227 ± 0.265 (0.556) C:85% T:92%	pCi/L	12/08/22 14:42	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: E072450
Pace Project No.: 30539765

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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SUBCONTRACT ORDER

Enviro-Chem

E072450

SENDING LABORATORY:

Enviro-Chem
47 Loveton Cir Suite K
Sparks, MD 21152
Phone: 410-472-1112
Fax: 410-472-1116
Project Manager: Stephen Shelley

RECEIVING LABORATORY:

PACE Greensburg
1638 Roseytown Rd
Greensburg, PA 15601
Phone : (724) 850-5600
Fax:

WO# Due 14-Dec-22 17:00

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: E072450-01	Water	Sampled: 15-Nov-22 14:00		
Radium 228	23-Nov-22 17:00	14-May-23 14:00		
Radium 226	23-Nov-22 17:00	14-May-23 14:00		
<i>Containers Supplied:</i> Poly, 1000ml, HNO3 (A) Poly, 1000ml, HNO3 (B)				

WO# : 30539765



1807 Davis Branch Rd
1337 JV
Bathroom Faucet

Released By [Signature] Date 11/14/22 1630 Received By UP Date _____
Released By _____ Date _____ Received By [Signature] Date 11/18/22 9:50



December 12, 2022

Stephen Shelley
Enviro-Chem Laboratories, Inc.
47 Loveton Circle, Suite K
Sparks Glencoe, MD 21152

RE: Project: E072450
Pace Project No.: 30539765

Dear Stephen Shelley:

Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nikayla M. Yasurek
nikayla.yasurek@pacelabs.com
(724)850-5600
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: E072450
Pace Project No.: 30539765

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: E072450
Pace Project No.: 30539765

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30539765001	E072450-01	Water	11/15/22 14:00	11/18/22 09:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: E072450
Pace Project No.: 30539765

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30539765001	E072450-01	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: E072450
Pace Project No.: 30539765

Method: EPA 903.1
Description: 903.1 Radium 226
Client: Enviro-Chem - MD
Date: December 12, 2022

General Information:

1 sample was analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: E072450
Pace Project No.: 30539765

Method: EPA 904.0
Description: 904.0 Radium 228
Client: Enviro-Chem - MD
Date: December 12, 2022

General Information:

1 sample was analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:


All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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	DC#_Title: ENV-FRM-GBUR-0088 v02_Sample Condition Upon Receipt- Pittsburgh	WO# : 30539765
	Effective Date: 10/03/2022	

Client Name: EnviroChem

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking Number: 126581VA039504242

Examined By	<u>TH</u>
Labeled By	<u>TH</u>
Temped By	<u>—</u>

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Thermometer Used: — Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp — °C Correction Factor: — °C Final Temp: — °C
 Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				<u>100222</u>	<u>—</u>
Chain of Custody Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Filled Out: -Were client corrections present on COC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Sample Labels match COC: -Includes date/time/ID Matrix:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Correct Containers Used: -Pace Containers Used	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Orthophosphate field filtered:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Hex Cr Aqueous samples field filtered:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Organic Samples checked for dechlorination	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Filtered volume received for dissolved tests:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
All containers meet method preservation requirements:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>TH</u>	Date/Time of Preservation
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lot# of added Preservative	
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Rad Samples Screened <0.5 mrem/hr.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>TH</u>	Date: <u>11/8/22</u> Survey Meter SN: <u>1563</u>
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.



Pace Greensburg Lab -Sample Container Count

Client _____
 Site E072450

Profile Number 6545
 Notes _____

Sample Line Item	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	GCUB	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	
1	WT											2																	
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass Na Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved		

Plastic / Misc.

GCUB	1 Gallon Cubitainer	EZI	5g Encore
12GN	1/2 Gallon Cubitainer	VOAK	Kit for Volatile Solid
SP5T	120mL Coliform Na Thiosulfate	I	Wipe/Swab
BP1N	1L plastic HNO3	ZPLC	Ziploc Bag
BP1U	1L plastic unpreserved		
BP3S	250mL plastic H2SO4	WT	Water
BP3N	250mL plastic HNO3	SL	Solid
BP3U	250mL plastic unpreserved	OL	Non-aqueous liquid
BP3C	250ml plastic NAOH	WP	Wipe
BP2S	500mL plastic H2SO4		
BP2U	500mL plastic unpreserved		

WO# : 30539765

PM: NMY Due Date: 12/13/22
 CLIENT: EnviroChem

Wolf, Kevin

From: Patrick Harrison <pharrison@keystonecustomhome.com>
Sent: Monday, November 7, 2022 10:34 AM
To: Wolf, Kevin; misom@mbwd.us
Subject: Re: Enviro-Chem E072008, Project: _U&O, Project Number:1807 Davis Branch Rd

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

Mike,

Please see below from Kevin wolf.

Can we please get the samples he requires over to him asap?

I'm not sure why these has come up on these last two houses , 1807 & 1859, but we have never had this issue before on Davis branch road.

Thanks again
Pat Harrison
Keystone Custom Homes

Get [Outlook for iOS](#)

From: Wolf, Kevin <KWolf@howardcountymd.gov>
Sent: Monday, November 7, 2022 10:15 AM
To: Patrick Harrison <pharrison@keystonecustomhome.com>
Subject: RE: Enviro-Chem E072008, Project: _U&O, Project Number:1807 Davis Branch Rd

Pat,
As you can see from the radium letter attached, we still need samples for radium 226 and 228 to solidify the ICOP. If these results come back elevated or above the MCL, treatment will need to be installed and post treatment samples for gross alpha, radium 226/228 will need to occur. This along with the radium agreement signed from the homeowners must occur as well. Let me know if you have any questions.

Kevin

From: Patrick Harrison <pharrison@keystonecustomhome.com>
Sent: Wednesday, November 2, 2022 2:42 PM
To: Wolf, Kevin <KWolf@howardcountymd.gov>
Subject: Fwd: Enviro-Chem E072008, Project: _U&O, Project Number:1807 Davis Branch Rd

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

Kevin,

Please see attached well water results for 1807 Davis Branch Road Woodstock Md.
Can you please send us the icop letter for this house?

Thanks again
Pat Harrison
Keystone Custom Homes

Get [Outlook for iOS](#)

From: Michael Isom <misom@mbwd.us>
Sent: Wednesday, November 2, 2022 9:52:36 AM
To: Patrick Harrison <pharrison@keystonecustomhome.com>
Subject: FW: Enviro-Chem E072008, Project: _U&O, Project Number:1807 Davis Branch Rd

Michael Isom
Senior Project Manager
Michael Barlow Well Drilling
410-838-6910

-----Original Message-----

From: Steve Shelley <steve@enviro-chem.net>
Sent: Wednesday, October 5, 2022 10:29 AM
To: Michael Isom <misom@mbwd.us>
Subject: Enviro-Chem E072008, Project: _U&O, Project Number:1807 Davis Branch Rd

Work Order: E072008
Client: BARLOW
Project: _U&O
Client Manager: Mike Isom
Received: 29-Sep-22 11:20

If you have any questions about this email or if this email has been sent to you in error, please contact:

Enviro-Chem
47 Loveton Cir Suite K
Sparks , MD 21152
410-472-1112 Phone
410-472-1116 Fax

EXTERNAL MESSAGE ALERT: This e-mail originated from OUTSIDE our organization. Make sure you recognize the e-mail, sender, and message content BEFORE opening any attachments or links.

Peter L. Beilenson, M.D., M.P.H., Health Officer

October 10, 2007

James Keelty and Company, Inc.
61 East Padonia Road
Timonium, Maryland 21093

RE: Myrtue Property Lot 5
Davis Branch Road
Well Tag: HO - 95 - 1181

To Whom It May Concern:

A sample was collected from a yield test on August 28, 2007 and submitted to GPL Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. These naturally occurring radioactive nuclides have been demonstrated to be present in a certain type of geologic formation known as the Baltimore Gneiss which exists in your area of development within the County.

Results from this screening revealed a **Gross Alpha** of 21.4 ± 4.0 picocuries/liter (pCi/L); while the **Gross Beta** level was 18.1 ± 2.1 pCi/L. The **Gross Alpha** result exceeded its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its targeted value of 50 pCi/L (roughly equivalent to the **annual dose rate** of 4 millirems/year).

Since the **Gross Alpha** finding exceeded its **MCL**, additional testing for **Gross Alpha**, **Gross Beta** and **Radium** will be necessary prior to occupancy to verify existing levels. Alternatively, you may install treatment designed to reduce **Gross Alpha**, **Gross Beta** and **Radium**, plus provide post treated results (for all 3 parameters) confirming that levels are in conformance with existing standards. These tests are **in addition** to the standard parameters required for Use & Occupancy.

Additionally, the owners will be required to sign an "AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN ON-SITE TREATMENT SYSTEM" as part of the Use and Occupancy process.

A copy of the test results is enclosed for your information. Please call this office at 410-313-1773 if you have any further questions or to discuss additional testing requirements.

Sincerely,



Bert Nixon, Director
Bureau of Environmental Health

cc: Eric Dougherty, MDE Water Mgmt., Groundwater
✓ Well & Septic property file

Send Report To:
Bert Nixon

State of Maryland
 DHMH - Laboratories Administration
 Division of Environmental Chemistry
RADIATION LABORATORY

201 W. Preston Street, Baltimore, Maryland 21201
 John M. DeBoy, Dr. P.H., Director

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: 40-95-1181 No. B: _____ Field Blank Bottle No. A: _____ No. B: _____

Plant/Site Name: Myrtle Prop. - Lot 5 County: Howard

Sample Source: Davis Branch Rd. Location: 40-95-1181
 (well no., lab sink, sample tap, etc.)

County: 1 3 Plant No.

CHECK (one per box)

Drinking Water	<input checked="" type="checkbox"/>
Landfill	<input type="checkbox"/>
Stream	<input type="checkbox"/>
Other	<input type="checkbox"/>

Community	<input type="checkbox"/>
Non-community	<input type="checkbox"/>
Private	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

Source (raw water)	<input checked="" type="checkbox"/>
Distribution (treated)	<input type="checkbox"/>
MCL	<input type="checkbox"/>

Emergency	<input type="checkbox"/>
Routine	<input checked="" type="checkbox"/>
Recheck	<input type="checkbox"/>
Special	<input type="checkbox"/>

Collector: K. Wolf

Telephone No: 410-313-2645

Date Collected: 8/28/07

Time Collected: 11:00 a.m. _____ p.m.

Nitric Acid Preserved: Yes No

Iced: Yes No

Submitters Code: Federal Project: Field Data: _____

Remarks: Sample collected @ end of yield pH _____ Chlorine _____

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	<u>708237-008</u>	<u>214 ± 4.0</u>	<u>9/5/07</u>
✓	Gross Beta	4100		<u>18.1 ± 2.1</u>	
	Radon-222 Bottle A	4004			
	Radon-222 Bottle B	4004			
	Field Blank A	4004			
	Field Blank B	4004			
	Tritium				
	Ra - 226	4020			
	Ra - 228	4030			
	Total Uranium	4006			

Date Received: _____ / _____ / _____

Supervisor: _____

Penny E. Borenstein, M.D., M.P.H., Health Officer

ATTENTION WELL DRILLERS!!!

When submitting a well application for a new or replacement well, please indicate one of the following:

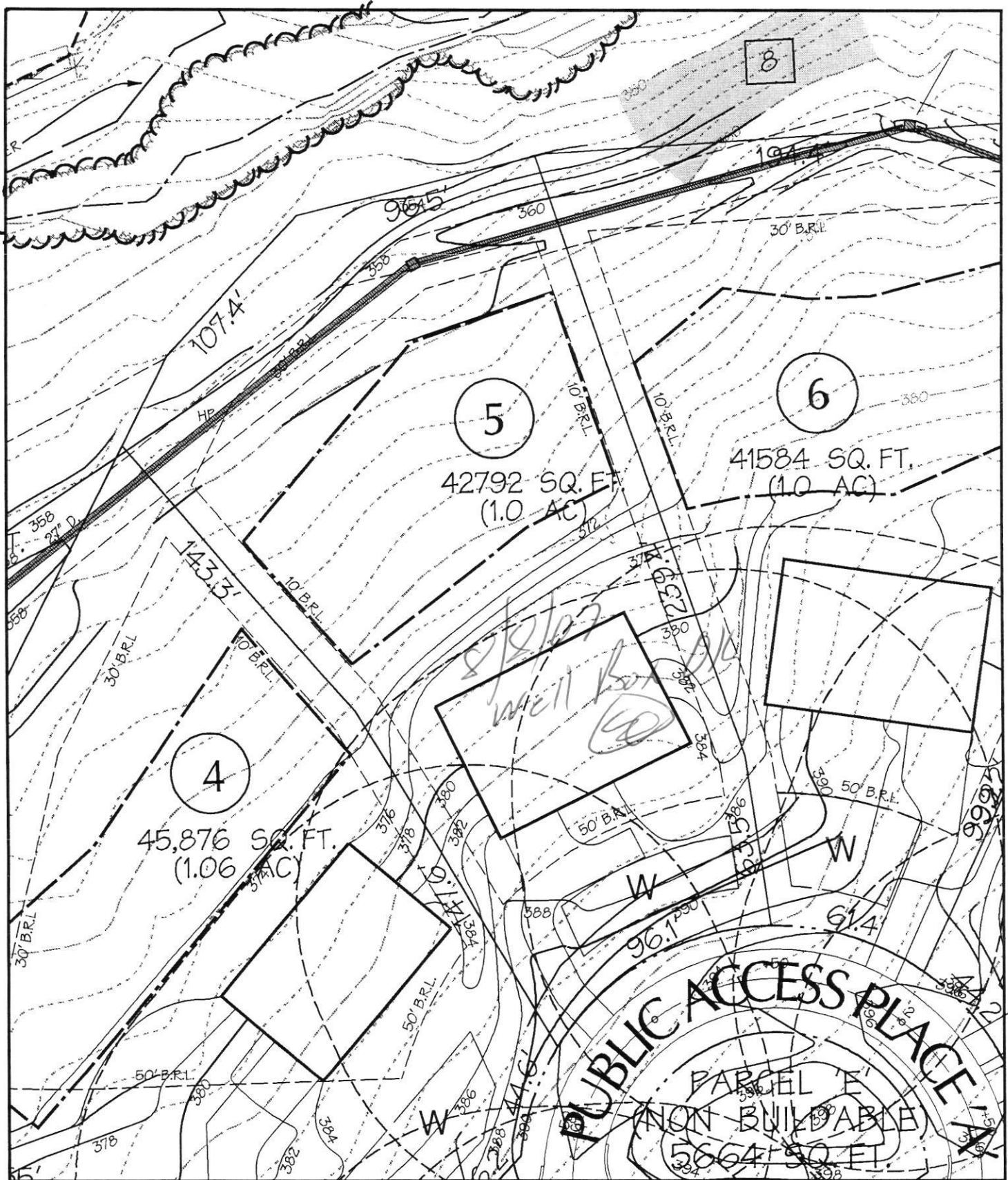
- The well site has been staked by DaFT - McCune Walker on _____ and is ready for site inspection.
- _____ will call the Health Department for a time to meet in the field to verify a well location.
- Site plan for new well is attached to well permit application.

Please attach this sheet when submitting your green application. This should help improve communication allowing a more timely service for our citizens.

KN

*Engineer stated well box is
Staked on corners*

Murtne Prof. Lots 1-31



MYRTUE PROPERTY

LOT 5

Job No. 02033 Scale: 1"=50' Date: 04/16/07 Drawn By: MDT

DMW

Daft-McCune-Walker, Inc.

200 East Pennsylvania Avenue
 Towson, Maryland 21286
 (410) 296-3333
 Fax 296-4705

A Team of Land Planners,
 Landscape Architects,
 Engineers, Surveyors &
 Environmental Professionals

n:\02033\Lot Wells\Lot05.DGN

Wed Apr 25 11:26:02 2007

72173

ENVIRO-CHEM LABORATORIES, INC. - Drinking Water Field Data Sheet

Rept/Inv: Michael Barlow Well Drilling

Owner/List Agt: Keystone Homes

Sample Address: 1807 DAVID BRANCH RD

Landmarks: LOT 5

Well Tag #: Hd-95-1181

Treatment Devices: NEUTRALIZER + SOFTENER

County: Howard

Permit #: _____

Type: U&O

Real Estate: _____

Routine: _____

Phone: _____

Phone: _____

Fax: _____

Chlorine Level: 0

Well Condition: two piece up

Sample Iced/Chilled: Y N

Temp. when rec'd by Lab: _____

Inv / Payment Rec'd _____

Lab ID				
Station	<u>POWDER ROOM</u>			
Date	<u>10/17/2022</u>			
Time	<u>8:00</u>			
pH (SM4500+8)	Lead (EPA200.8)	524.2 MTBE-BTEX		
Turbidity (SM180.1)	Cu (EPA200.8)	524.2 Full VOC		
Coliform (SM 9223)	Iron (EPA200.7)	Gross A / Gross B		
Nitrate (EPA300.0)	Hard (EPA200.7)	(NJAC8-18-6)		
Nitrite (EPA300.0)	Mn (EPA200.7)			
Sand (EPA100.5)		Cl (EPA300.0)		
MPN (SM 9229B)		Na (EPA200.7)		
Plateact (Simple)		TDS (SM 2540C)		

These samples were collected and preserved in an appropriate manner by _____ a sampler certified by the Maryland Department of the Environment for the collection of drinking water samples. To the best of my knowledge, all information listed above regarding the collection of this sample is true and accurate.

Collected/Relinquished by <u>1113MR</u>	Date & Time Relinquished
Received by <u>[Signature]</u>	Date & Time Received <u>10/17/22 @ 1615</u>

For ECL Use:

# of Samples _____	# of Bottles _____	COC/Labels Match	Y	N
Micro Thiosulfate Preserved	Y N N/A	Bottles Intact /Appropriate	Y	N
Metals Preserved (pH<2)	Y N N/A	Explain "N" answers		
VOA Vials Preserved / Zero Head Space	Y N N/A			
Completed by		Y N Metals preservative added at Lab		

47 Loveton Circle, Ste K
Sparks, MD 21152

Fax: 410-472-1116